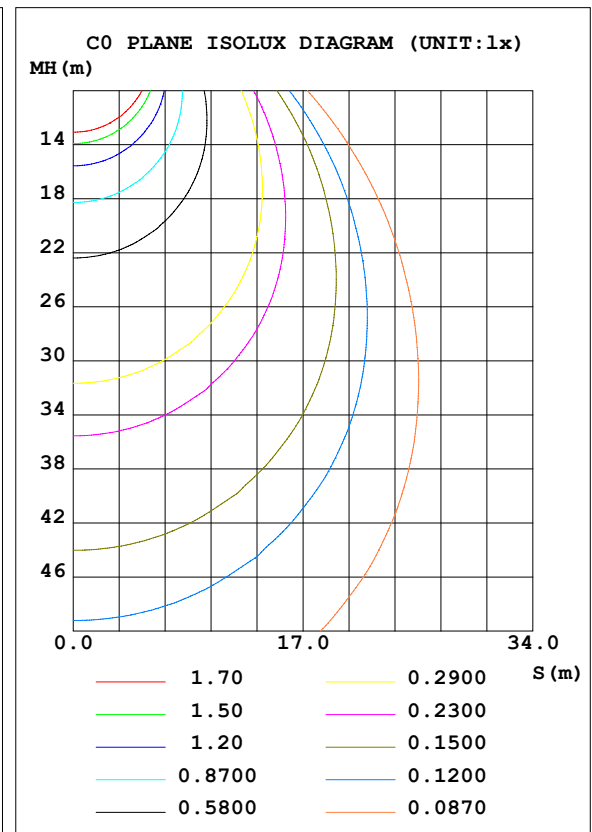
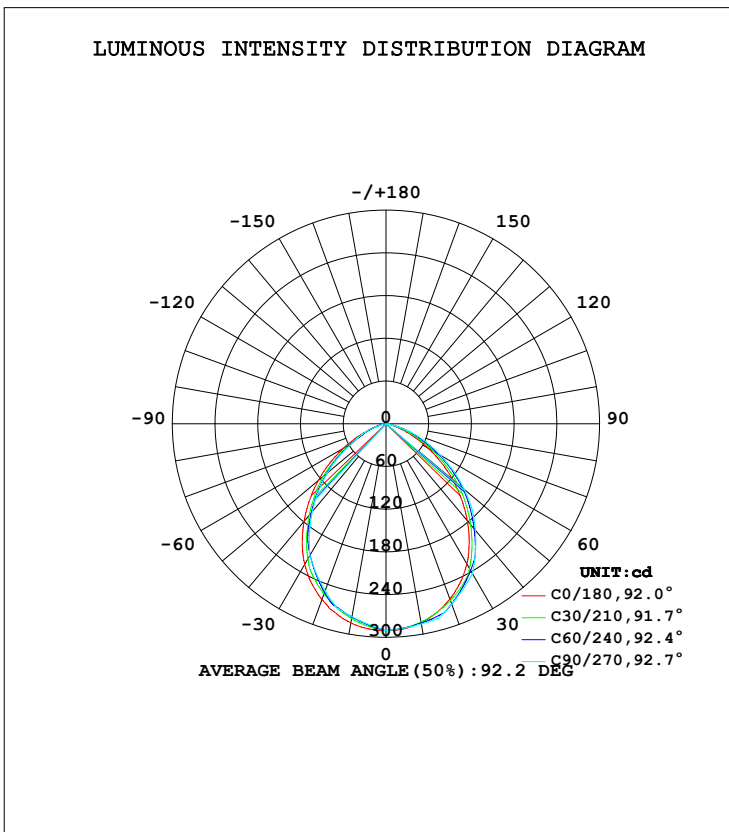


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: Tremo-10W-90D-3000k-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	Tremo-10W-90D-3000k-80	Imax (cd)	290.6	S/MH (C0/180)	1.18
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	1.11
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	609.82	η UP, DN (C0-180)	0.0, 46.6
NOMINAL FLUX (lm)	609.819	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 53.4
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	226.9	η down (%)	100.0	CIBSE SHR MAX	1.30



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DOBAC
 Test Date: 2017-11-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.260
 Humidity: 65.0%
 Test Distance: 6.960m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum,lamp
5	289.1	284.4	283.0	284.4	289.0	287.9	288.0	288.0	0- 5	6.887	6.887	1.13,1.13
10	284.0	276.3	275.3	276.4	283.9	283.5	285.5	283.4	5- 10	20.28	27.17	4.45,4.45
15	274.8	266.6	267.7	266.6	274.7	277.2	282.9	276.6	10- 15	32.82	59.99	9.84,9.84
20	262.8	255.2	249.8	255.2	262.1	269.3	269.6	268.6	15- 20	43.96	104.0	17.17
25	247.4	235.8	231.8	236.1	246.5	253.2	256.3	252.9	20- 25	52.90	156.8	25.7,25.7
30	228.3	214.3	213.9	213.9	227.2	234.4	242.9	234.3	25- 30	59.48	216.3	35.5,35.5
35	205.3	191.4	187.5	190.7	204.0	214.0	219.1	214.3	30- 35	63.21	279.5	45.8,45.8
40	179.2	167.1	161.1	166.1	177.7	191.2	195.3	192.1	35- 40	63.49	343.0	56.3,56.3
45	151.8	138.3	134.6	137.9	150.2	163.1	171.5	163.7	40- 45	60.77	403.8	66.2,66.2
50	124.1	110.6	108.0	110.7	122.4	135.6	143.5	136.1	45- 50	55.44	459.2	75.3,75.3
55	96.19	83.93	81.29	84.49	94.48	108.9	115.5	109.4	50- 55	47.78	507.0	83.1,83.1
60	69.60	59.45	54.62	59.97	67.92	81.35	87.55	82.30	55- 60	38.40	545.4	89.4,89.4
65	45.03	36.67	39.57	36.92	44.19	55.47	64.10	56.82	60- 65	28.29	573.7	94.1,94.1
70	24.30	20.75	24.52	20.76	23.90	34.72	40.65	36.08	65- 70	18.97	592.7	97.2,97.2
75	11.43	12.74	9.473	12.48	11.10	20.24	17.21	21.06	70- 75	10.90	603.6	99.99
80	6.773	5.339	0	4.961	6.611	7.311	0	7.590	75- 80	4.881	608.5	99.8,99.8
85	2.809	0	0	0	2.759	0	0	0	80- 85	1.245	609.7	100,100
90	0.0445	0	0	0	0.0107	0	0	0	85- 90	0.1176	609.8	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

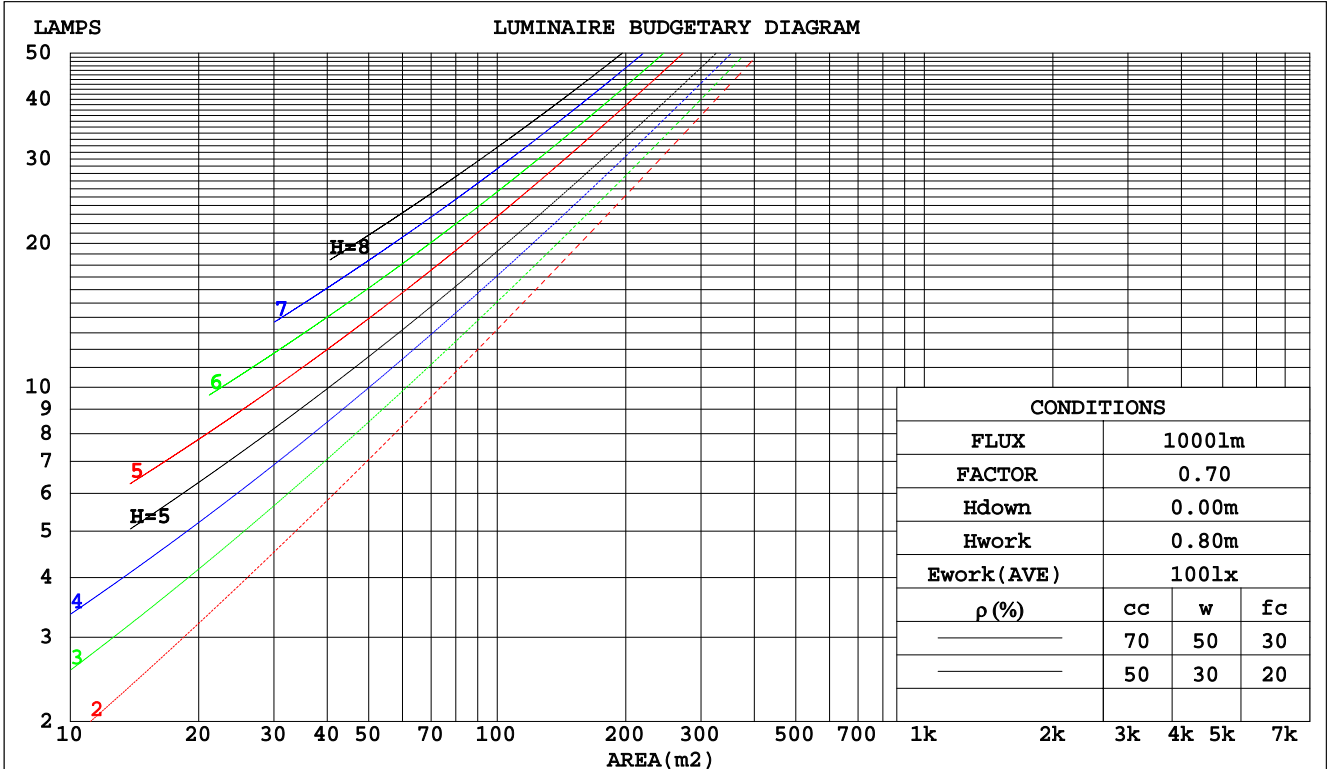
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DOBAC
Test Date:2017-11-03

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Humidity:65.0%
Test Distance:6.960m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: Tremo-10W-90D-3000k-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.07	1.03	1.00	1.05	1.01	.99	1.00	.98	.95	.97	.95	.93	.93	.91	.90	.88
2.0	.95	.89	.84	.93	.88	.83	.90	.85	.82	.87	.83	.80	.84	.81	.78	.76
3.0	.85	.78	.72	.83	.77	.72	.81	.75	.70	.78	.73	.69	.75	.71	.68	.66
4.0	.76	.68	.62	.75	.68	.62	.73	.66	.61	.70	.65	.60	.68	.64	.60	.58
5.0	.69	.61	.55	.68	.60	.54	.66	.59	.54	.64	.58	.53	.62	.57	.53	.51
6.0	.62	.54	.48	.62	.54	.48	.60	.53	.48	.58	.52	.47	.57	.51	.47	.45
7.0	.57	.49	.43	.56	.49	.43	.55	.48	.43	.53	.47	.42	.52	.46	.42	.40
8.0	.52	.44	.39	.52	.44	.39	.50	.43	.39	.49	.43	.38	.48	.42	.38	.36
9.0	.48	.41	.35	.48	.40	.35	.47	.40	.35	.45	.39	.35	.45	.39	.35	.33
10.0	.45	.37	.32	.44	.37	.32	.43	.37	.32	.42	.36	.32	.41	.36	.32	.30



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DOBAC
 Test Date: 2017-11-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.260
 Humidity: 65.0%
 Test Distance: 6.960m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME: Tremo-10W-90D-3000k-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.253	.144	.046	.246	.140	.045	.233	.134	.043	.221	.127	.041	.210	.122	.039	
2.0	.247	.135	.041	.241	.133	.041	.229	.128	.040	.219	.123	.038	.209	.118	.037	
3.0	.234	.125	.037	.229	.123	.037	.219	.119	.036	.210	.115	.035	.201	.111	.034	
4.0	.220	.115	.034	.216	.113	.033	.207	.110	.033	.199	.107	.032	.191	.104	.032	
5.0	.207	.105	.031	.203	.104	.030	.195	.102	.030	.188	.099	.029	.181	.097	.029	
6.0	.194	.097	.028	.191	.096	.028	.184	.094	.027	.177	.092	.027	.171	.090	.027	
7.0	.183	.090	.026	.179	.089	.025	.173	.088	.025	.167	.086	.025	.162	.084	.025	
8.0	.172	.084	.024	.169	.083	.024	.164	.082	.023	.158	.080	.023	.154	.079	.023	
9.0	.162	.079	.022	.160	.078	.022	.155	.077	.022	.150	.075	.022	.146	.074	.021	
10.0	.154	.074	.020	.151	.073	.020	.147	.072	.020	.143	.071	.020	.139	.070	.020	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.176	.157	.139	.151	.134	.120	.103	.092	.083	.059	.054	.048	.019	.017	.016	
2.0	.166	.132	.103	.142	.114	.089	.098	.079	.062	.056	.046	.037	.018	.015	.012	
3.0	.158	.114	.079	.135	.098	.069	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.150	.100	.063	.129	.087	.054	.088	.060	.038	.051	.035	.023	.016	.012	.007	
5.0	.143	.090	.051	.122	.078	.044	.084	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.136	.081	.042	.117	.070	.037	.080	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.129	.074	.035	.111	.064	.031	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.123	.068	.030	.106	.059	.027	.073	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.118	.063	.027	.101	.055	.023	.070	.039	.016	.041	.023	.010	.013	.007	.003	
10.0	.113	.059	.023	.097	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DOBAC
 Test Date:2017-11-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.260
 Humidity:65.0%
 Test Distance:6.960m [K=1.0000]
 Remarks:

Uncorrected UGR Table

NAME: Tremo-10W-90D-3000k-80						TYPE:					WEIGHT:				
DIM.:						SPEC.:					SERIAL No.:				
MFR.: DOBAC						SUR.:					PROTECTION ANGLE:				
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise									
x = 2H y = 2H	23.8	25.2	24.1	25.4	25.5	23.2	24.6	23.5	24.8	25.0	23.2	24.6	23.5	24.8	25.0
3H	24.2	25.5	24.5	25.7	25.9	23.8	25.1	24.1	25.3	25.5	23.8	25.1	24.1	25.3	25.5
4H	24.2	25.4	24.5	25.7	25.9	23.9	25.0	24.2	25.3	25.5	23.9	25.0	24.2	25.3	25.5
6H	24.2	25.4	24.6	25.6	25.9	23.8	24.9	24.1	25.1	25.4	23.8	24.9	24.1	25.1	25.4
8H	24.2	25.3	24.6	25.6	25.9	23.7	24.8	24.1	25.1	25.4	23.7	24.8	24.1	25.1	25.4
12H	24.2	25.2	24.5	25.5	25.8	23.7	24.7	24.0	25.0	25.3	23.7	24.7	24.0	25.0	25.3
4H 2H	23.9	25.1	24.3	25.4	25.6	23.5	24.7	23.8	24.9	25.2	23.5	24.7	23.8	24.9	25.2
3H	24.4	25.5	24.8	25.8	26.1	24.2	25.2	24.5	25.5	25.8	24.2	25.2	24.5	25.5	25.8
4H	24.5	25.5	24.9	25.8	26.1	24.3	25.2	24.6	25.5	25.8	24.3	25.2	24.6	25.5	25.8
6H	24.6	25.4	25.0	25.7	26.1	24.2	25.0	24.6	25.4	25.7	24.2	25.0	24.6	25.4	25.7
8H	24.6	25.3	25.0	25.7	26.1	24.2	24.9	24.6	25.3	25.7	24.2	24.9	24.6	25.3	25.7
12H	24.6	25.3	25.0	25.6	26.0	24.1	24.8	24.5	25.2	25.6	24.1	24.8	24.5	25.2	25.6
8H 4H	24.5	25.3	24.9	25.6	26.0	24.2	25.0	24.6	25.4	25.7	24.2	25.0	24.6	25.4	25.7
6H	24.6	25.2	25.0	25.6	26.0	24.2	24.8	24.6	25.2	25.6	24.2	24.8	24.6	25.2	25.6
8H	24.6	25.2	25.1	25.6	26.1	24.2	24.7	24.6	25.1	25.6	24.2	24.7	24.6	25.1	25.6
12H	24.7	25.1	25.1	25.6	26.1	24.1	24.6	24.6	25.0	25.5	24.1	24.6	24.6	25.0	25.5
12H 4H	24.5	25.2	24.9	25.5	25.9	24.2	24.9	24.6	25.3	25.7	24.2	24.9	24.6	25.3	25.7
6H	24.6	25.1	25.0	25.5	26.0	24.2	24.7	24.6	25.1	25.6	24.2	24.7	24.6	25.1	25.6
8H	24.6	25.1	25.1	25.5	26.0	24.1	24.6	24.6	25.0	25.5	24.1	24.6	24.6	25.0	25.5
Variations with the observer position at spacings:															
S = 1.0H	+ 0.5 / - 0.6					+ 0.6 / - 0.7									
1.5H	+ 0.3 / - 0.5					+ 0.3 / - 0.3									
2.0H	+ 1.1 / - 1.6					+ 1.2 / - 1.9									

CIE Pub.117 Corrected 609.8 lm Total Lamp Luminous Flux. (8log(F/F0) = -1.7)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DOBAC
Test Date: 2017-11-03

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Humidity: 65.0%
Test Distance: 6.960m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: Tremo-10W-90D-3000k-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

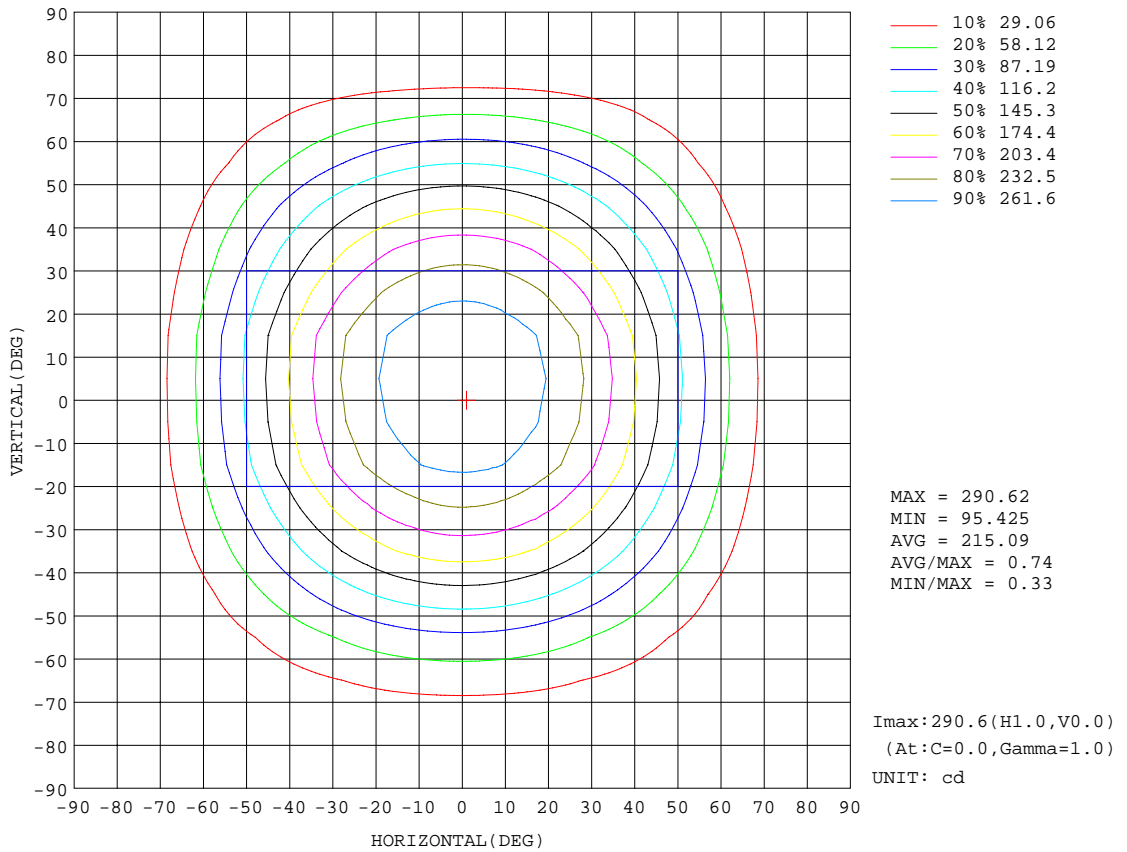
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	64	53	47	63	53	47	62	53	47	41
0.80	74	64	57	73	64	57	72	63	57	51
1.00	82	73	67	81	72	66	79	73	66	60
1.25	89	80	74	88	80	74	85	78	73	67
1.50	94	86	80	92	85	79	89	83	78	72
2.00	100	93	87	98	92	87	95	89	85	78
2.50	103	97	92	101	95	91	97	93	89	81
3.00	106	100	96	104	99	95	100	96	92	85
4.00	109	104	101	107	103	99	103	99	97	88
5.00	111	107	104	109	105	102	104	102	99	91
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DOBAC
 Test Date: 2017-11-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.260
 Humidity: 65.0%
 Test Distance: 6.960m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

NAME: Tremo-10W-90D-3000k-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

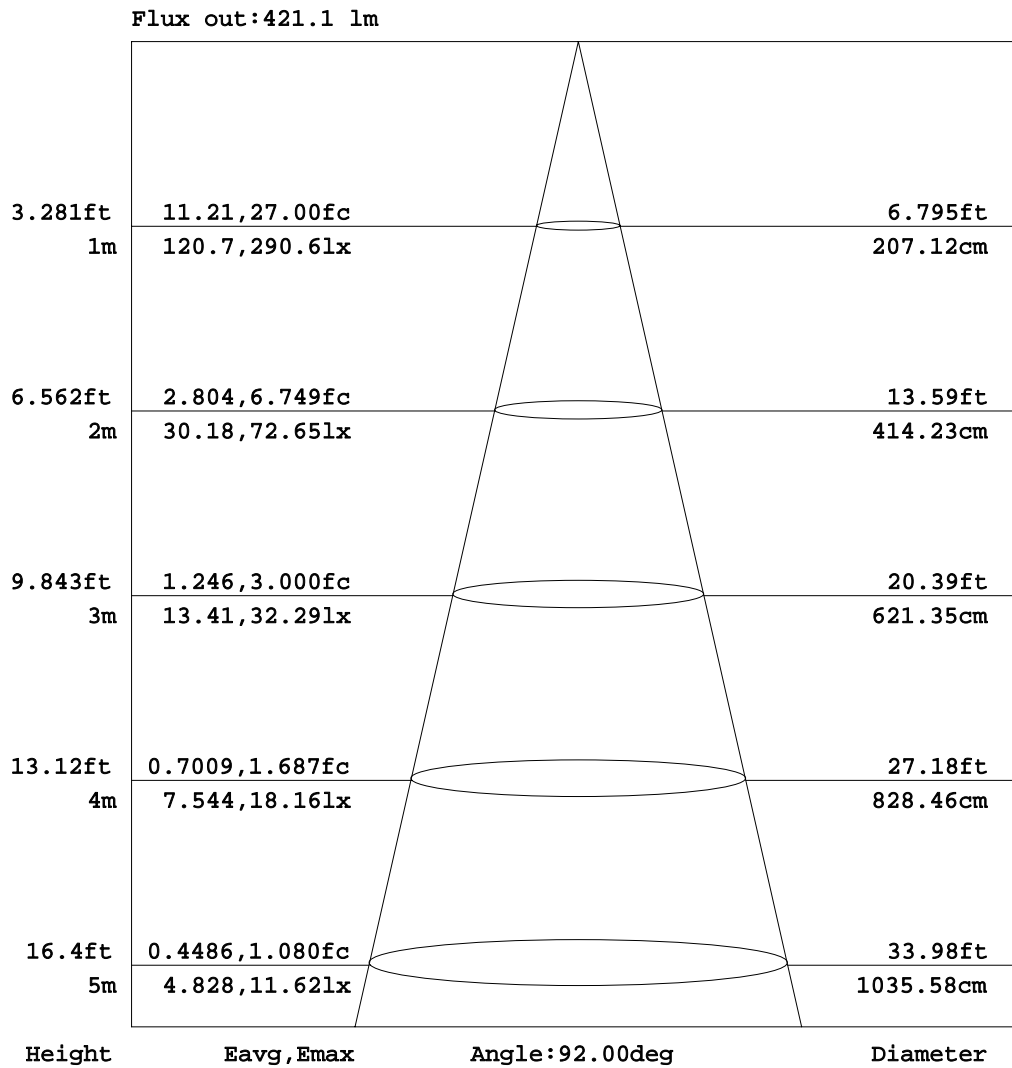


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DOBAC
 Test Date: 2017-11-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.260
 Humidity: 65.0%
 Test Distance: 6.960m [K=1.0000]
 Remarks:

AAI Figure

NAME: Tremo-10W-90D-3000k-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:



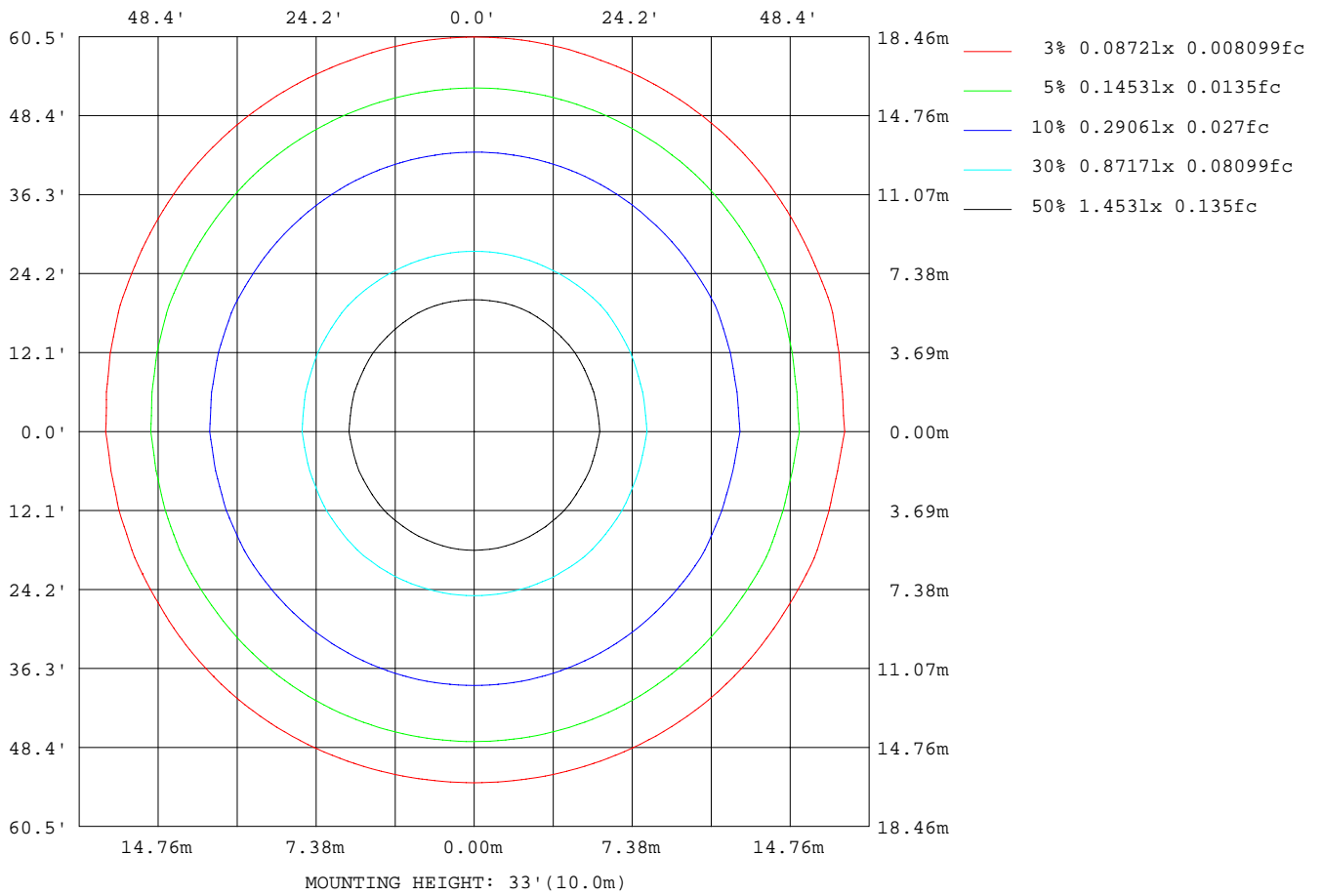
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DOBAC
Test Date: 2017-11-03

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Humidity: 65.0%
Test Distance: 6.960m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: Tremo-10W-90D-3000k-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DOBAC
 Test Date: 2017-11-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.260
 Humidity: 65.0%
 Test Distance: 6.960m [K=1.0000]
 Remarks:

Average Luminance Table(CIBSE)

NAME: Tremo-10W-90D-3000k-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	609.819	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.0055	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:1996 Average Luminance

G deg	C plane(deg)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	30493	29100	28137	27478	26797	26531	26267	26005	25832	25768	25839	26050	26353	26647	26939	27438	28010	29161	29949
60	25310	23769	23207	22180	21746	21416	20882	20370	19988	19862	19999	20398	20966	21547	21967	22236	22989	23891	24700
65	19372	17816	17159	16535	16218	15239	15654	16526	16914	17024	16919	16541	15711	15315	16384	16802	17196	17898	19010
70	12919	11666	10979	11325	9941	11885	12865	13135	13086	13036	13079	13095	12839	11869	9984	11427	11213	11818	12707
75	8030	7542	7590	7109	8383	9198	8840	7898	7009	6655	6980	7788	8686	9012	8222	6927	7692	7508	7798
80	7092	6518	6416	6703	6632	4481	2586	1171	295	0	294	1148	2493	4220	6055	6141	6206	6578	6923
85	5859	5035	5811	0	0	0	0	0	0	0	0	0	0	0	0	0	4712	4825	5756

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

CIBSE Category	Gamma (deg)	Average Luminance		Patch Luminance	
		maximum	specified	maximum	specified
		calculated	maximum	measured	maximum
Category 1	55 to 90	30493	200	---	500
Category 2	65 to 90	19372	200	---	500
Category 3	75 to 90	9198	200	---	500

Table 3. Tabulation of Average and Patch Luminance(cd/sq.m.) for defined CIBSE categories

No match

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DOBAC
Test Date:2017-11-03

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Humidity:65.0%
Test Distance:6.960m [K=1.0000]
Remarks:

Average Luminance Table(CIBSE)

NAME: Tremo-10W-90D-3000k-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	609.819	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.0055	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:2001 Average Luminance

G deg	C plane(deg)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	30493	29100	28137	27478	26797	26531	26267	26005	25832	25768	25839	26050	26353	26647	26939	27438	28010	29161	29949
60	25310	23769	23207	22180	21746	21416	20882	20370	19988	19862	19999	20398	20966	21547	21967	22236	22989	23891	24700
65	19372	17816	17159	16535	16218	15239	15654	16526	16914	17024	16919	16541	15711	15315	16384	16802	17196	17898	19010
70	12919	11666	10979	11325	9941	11885	12865	13135	13086	13036	13079	13095	12839	11869	9984	11427	11213	11818	12707
75	8030	7542	7590	7109	8383	9198	8840	7898	7009	6655	6980	7788	8686	9012	8222	6927	7692	7508	7798
80	7092	6518	6416	6703	6632	4481	2586	1171	295	0	294	1148	2493	4220	6055	6141	6206	6578	6923
85	5859	5035	5811	0	0	0	0	0	0	0	0	0	0	0	0	0	4712	4825	5756

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

range (deg)	Maximum measured	Average Luminance(cd/sq.m)			
		Maximum limit for screen type & software category used			
		Type I,II screen Some neg.s'ware	Type I,II screen Only pos.s'ware	Type III screen Some neg.s'ware	Type III screen Only pos.s'ware
55 to 90	30493	1000	1500	200	500
65 to 90	19372	1000	1500	200	500

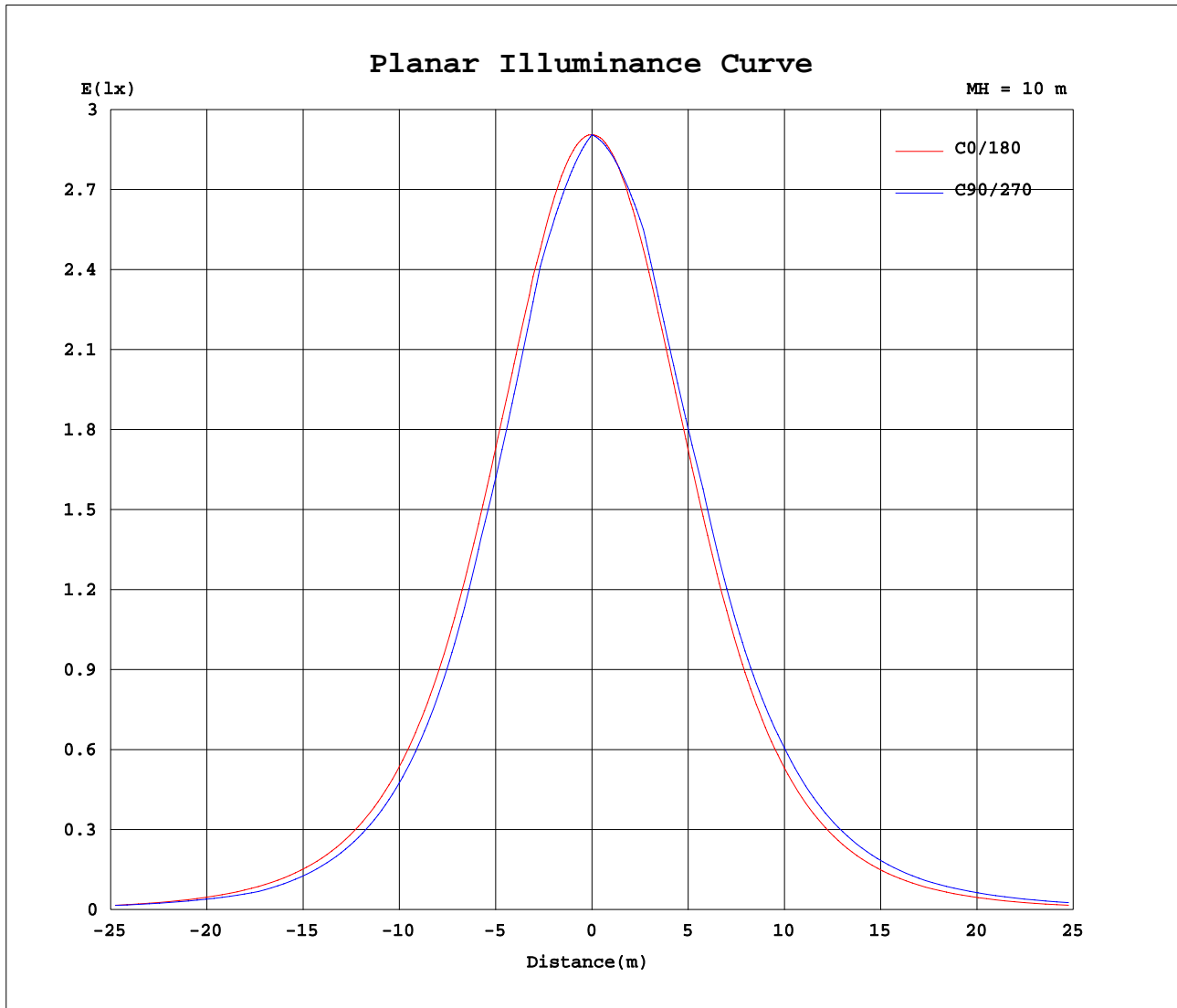
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

No match

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DOBAC
Test Date:2017-11-03

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Humidity:65.0%
Test Distance:6.960m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DOBAC
 Test Date: 2017-11-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.260
 Humidity: 65.0%
 Test Distance: 6.960m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: Tremo-10W-90D-3000k-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) \ y (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291
5	289	288	288	287	287	286	286	285	285	284	284	284	284	283	283	283	283	283	283
10	284	283	281	280	280	279	278	277	277	276	276	276	276	275	275	275	275	275	275
15	275	273	271	270	269	268	268	267	267	267	267	267	267	267	267	267	268	268	268
20	263	260	258	257	255	255	254	254	255	255	255	253	252	251	251	250	250	250	250
25	247	244	242	240	239	239	239	240	238	236	234	234	233	233	232	232	232	232	232
30	228	225	222	221	220	220	219	217	216	214	213	214	213	213	214	214	214	214	214
35	205	201	199	197	198	196	194	193	192	191	192	192	192	190	189	188	188	188	187
40	179	175	173	172	172	169	168	167	167	167	165	164	163	162	162	162	161	161	161
45	152	148	146	146	143	142	141	142	140	138	137	137	136	136	135	135	135	135	135
50	124	120	118	117	115	115	115	113	112	111	110	109	109	109	108	108	108	108	108
55	96.2	92.4	91.8	89.7	88.8	88.6	86.7	85.5	84.5	83.9	83.7	83.3	82.9	82.4	82.0	81.7	81.5	81.3	81.3
60	69.6	66.2	65.4	63.8	63.8	62.2	61.0	59.9	59.8	59.4	58.9	58.2	57.4	56.7	56.0	55.4	55.0	54.7	54.6
65	45.0	42.5	41.4	41.0	39.9	38.8	38.4	38.4	37.7	36.7	35.4	34.8	36.4	37.6	38.4	39.0	39.3	39.5	39.6
70	24.3	22.8	21.9	21.7	20.7	21.5	21.3	19.9	18.7	20.8	22.4	23.5	24.2	24.6	24.7	24.7	24.6	24.5	24.5
75	11.4	11.0	10.7	10.7	10.8	10.9	10.1	10.8	11.9	12.7	13.1	13.0	12.6	12.0	11.2	10.6	9.98	9.60	9.47
80	6.77	6.43	6.23	6.08	6.13	6.32	6.40	6.44	6.33	5.34	4.28	3.32	2.47	1.73	1.12	0.63	0.28	0.07	0.00
85	2.81	1.70	2.41	2.92	2.79	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DOBAC
Test Date:2017-11-03

y Range: 0 - 90DEG
y Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Humidity:65.0%
Test Distance:6.960m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: Tremo-10W-90D-3000k-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	
0	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	
5	283	283	283	283	283	284	284	284	284	285	285	286	286	287	287	288	288	289	289	
10	275	275	275	275	275	276	276	276	276	277	277	278	278	279	280	281	283	284	283	
15	268	268	267	267	267	267	267	267	267	267	267	267	268	269	270	271	273	275	274	
20	250	250	250	251	251	252	253	255	255	255	255	255	255	255	256	258	260	262	261	
25	232	232	232	232	232	233	233	235	236	238	240	239	239	239	240	241	244	247	246	
30	214	214	213	213	212	212	213	213	214	215	217	220	220	220	220	221	224	227	226	
35	188	188	188	188	189	190	191	190	191	191	193	194	197	198	197	198	200	204	203	
40	161	161	161	162	162	163	163	165	166	166	166	167	169	172	172	172	174	178	177	
45	135	135	135	135	135	136	136	137	138	139	141	141	141	143	146	145	147	150	150	
50	108	108	108	109	109	109	110	110	111	111	112	114	114	115	118	118	119	122	122	
55	81.3	81.5	81.8	82.2	82.7	83.1	83.7	84.1	84.5	85.0	85.6	86.6	88.0	88.4	89.7	92.0	91.7	94.5	94.7	
60	54.7	55.0	55.5	56.1	56.9	57.7	58.5	59.3	60.0	60.4	60.7	61.1	62.0	63.2	63.8	65.7	65.8	67.9	68.5	
65	39.5	39.3	39.0	38.4	37.7	36.5	34.9	35.6	36.9	38.1	38.9	39.1	39.1	40.0	40.9	41.6	42.6	44.2	44.9	
70	24.5	24.6	24.7	24.6	24.5	24.2	23.4	22.3	20.8	18.8	20.1	21.5	21.8	21.1	21.9	22.2	23.2	23.9	24.9	
75	9.59	9.94	10.4	11.1	11.8	12.4	12.8	12.8	12.5	11.7	10.6	9.86	10.9	10.9	10.7	10.7	11.0	11.1	11.7	
80	0.07	0.28	0.62	1.10	1.68	2.38	3.17	4.03	4.96	5.78	5.89	5.87	5.92	5.93	6.04	6.28	6.40	6.61	6.80	
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11	2.26	2.46	2.31	1.88	2.76	2.98
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DOBAC
Test Date:2017-11-03

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Humidity:65.0%
Test Distance:6.960m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: Tremo-10W-90D-3000k-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

Table--3

UNIT: cd

C (DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291
5	289	288	288	288	288	288	288	288	288	288	288	288	288	288	288	288	288	288	288
10	283	283	283	283	283	283	283	283	284	284	284	285	285	285	285	285	285	285	285
15	274	274	274	274	275	276	276	277	278	279	280	281	281	282	282	283	283	283	282
20	261	261	262	263	264	266	268	269	270	270	269	269	269	269	269	269	270	269	269
25	246	246	248	250	252	254	254	253	253	253	254	255	255	256	256	256	256	256	256
30	227	228	230	233	235	234	234	234	235	237	238	239	240	242	242	243	243	243	243
35	204	206	210	211	211	211	212	214	216	219	219	219	219	219	219	219	219	219	219
40	178	182	185	184	185	187	189	191	192	192	193	193	194	195	195	195	195	195	195
45	152	156	156	156	158	162	162	163	164	165	167	168	169	170	171	171	171	171	171
50	125	127	127	129	132	132	134	136	137	139	140	141	142	143	143	143	144	143	143
55	98.0	98.3	99.9	102	103	105	107	109	110	111	112	113	114	115	115	115	116	116	115
60	71.1	71.5	73.8	74.7	76.5	78.8	80.1	81.3	82.5	83.6	84.6	85.4	86.1	86.7	87.1	87.4	87.6	87.6	87.5
65	46.1	47.7	48.5	50.2	52.1	53.5	54.5	55.5	56.3	57.4	59.5	61.1	62.2	62.9	63.5	63.9	64.1	64.1	64.0
70	25.4	26.6	27.6	29.4	30.5	31.0	31.8	34.7	36.8	38.2	39.2	39.8	40.1	40.2	40.3	40.5	40.7	40.8	40.9
75	12.2	12.6	14.2	14.2	14.7	17.3	19.2	20.2	20.5	20.1	19.6	19.1	18.3	17.7	17.3	17.1	17.2	17.4	18.0
80	7.12	7.29	7.55	7.79	8.42	8.94	8.62	7.31	5.94	4.67	3.66	2.72	1.82	1.06	0.49	0.13	0.00	0.13	0.51
85	3.12	3.35	3.23	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 5.0DEG	γ Interval: 0.5DEG
Test Speed: HIGH	Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Temperature: 25.3DEG	Humidity: 65.0%
Operators: DOBAC	Test Distance: 6.960m [K=1.0000]
Test Date: 2017-11-03	Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: Tremo-10W-90D-3000k-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	291	291	291	291	291	291	291	291	291	291	291	291	291	291	291				
5	288	288	288	288	288	288	288	288	288	288	288	288	289	289	289				
10	285	285	285	284	284	284	283	283	283	283	283	283	283	283	283				
15	282	281	280	280	279	278	277	276	275	275	274	274	274	274	274				
20	269	269	269	269	269	270	269	267	266	264	263	262	262	262	262				
25	256	255	254	254	253	253	253	253	254	251	249	247	246	246	246				
30	242	241	239	238	237	235	234	234	233	234	233	229	228	227	227				
35	219	219	219	219	219	217	214	213	211	210	211	209	206	204	204				
40	195	194	193	193	193	192	192	190	187	185	184	184	181	179	178				
45	170	169	168	167	166	165	164	163	163	160	157	156	155	152	151				
50	143	142	142	141	139	137	136	135	134	133	131	128	127	125	123				
55	115	114	114	113	112	111	109	107	106	105	104	101	98.9	98.2	95.6				
60	87.2	86.9	86.3	85.5	84.5	83.6	82.3	80.9	79.5	77.5	76.1	75.8	72.7	71.3	69.1				
65	63.6	63.0	62.0	60.7	58.9	57.8	56.8	55.7	54.4	52.7	51.3	49.9	49.0	46.6	45.2				
70	41.1	41.0	40.7	40.2	39.3	38.0	36.1	33.2	32.1	31.5	30.2	28.3	27.4	25.9	24.8				
75	18.7	19.3	19.8	20.4	20.9	21.3	21.1	20.1	18.2	15.6	14.7	14.6	12.8	12.5	11.7				
80	1.14	1.94	2.86	3.85	4.91	6.21	7.59	8.90	9.26	8.76	8.03	7.78	7.48	7.20	6.94				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.65	3.28	3.43	3.23	2.95			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

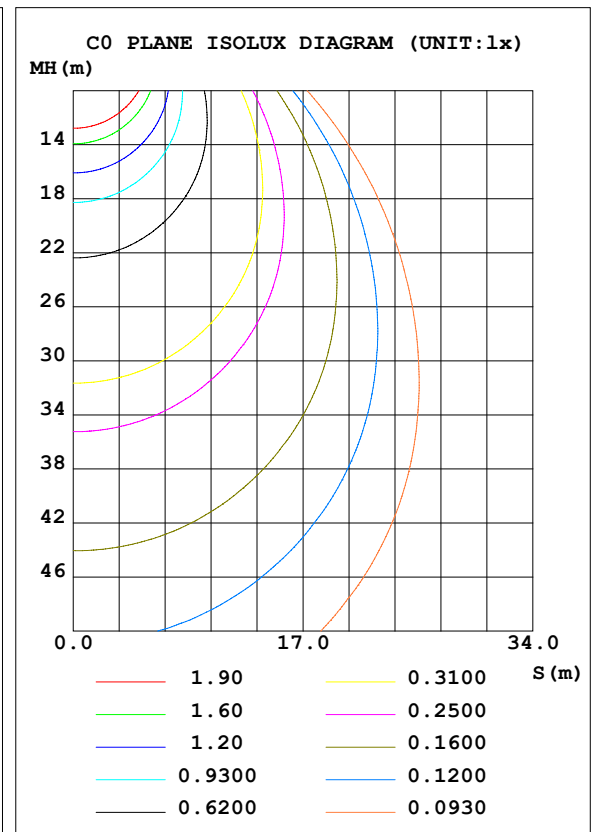
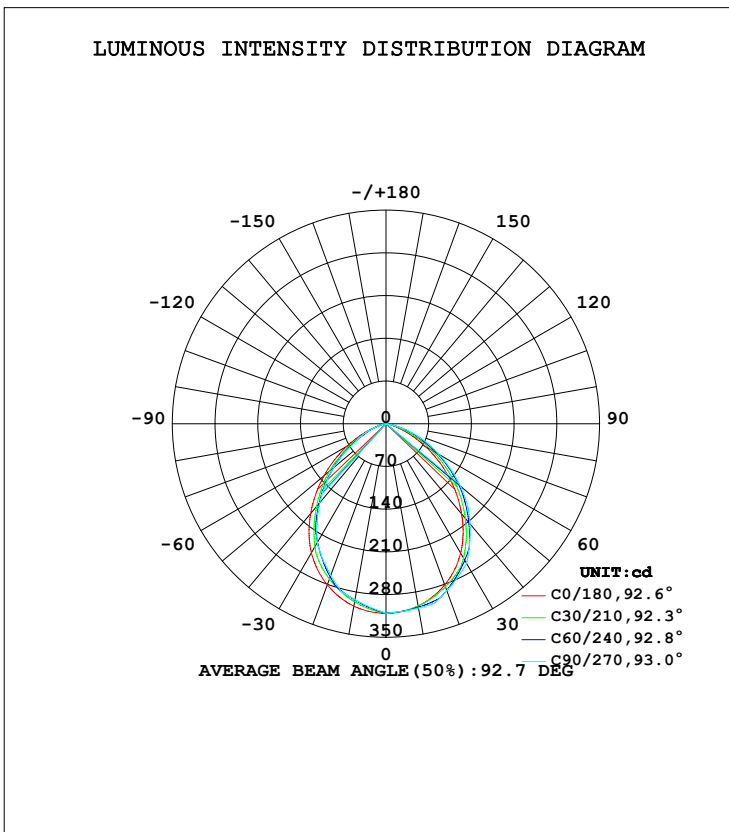
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DOBAC
Test Date:2017-11-03

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Humidity:65.0%
Test Distance:6.960m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: Tremo-10W-90D-4000K-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	Tremo-10W-90D-4000K-80	Imax (cd)	310.5	S/MH (C0/180)	1.18
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	1.10
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	656.18	η UP, DN (C0-180)	0.0, 45.7
NOMINAL FLUX (lm)	656.184	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 54.3
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	219.9	η down (%)	100.0	CIBSE SHR MAX	1.30



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DOBAC
 Test Date: 2017-11-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.260
 Humidity: 65.0%
 Test Distance: 6.960m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
5	308.9	303.5	301.6	303.5	308.9	308.3	308.5	308.3	0- 5	7.360	7.360	1.12,1.12
10	303.6	294.4	292.9	294.7	303.3	304.1	306.6	304.1	5- 10	21.68	29.04	4.43,4.43
15	294.1	283.5	284.2	284.0	293.9	298.1	304.7	297.8	10- 15	35.11	64.15	9.78,9.78
20	281.1	270.9	264.6	271.9	281.0	290.4	291.2	289.8	15- 20	47.05	111.2	16.9,16.9
25	264.7	250.0	245.0	251.2	264.7	273.8	277.7	273.0	20- 25	56.67	167.9	25.6,25.6
30	244.5	226.4	225.4	227.6	244.7	254.4	264.2	253.6	25- 30	63.77	231.6	35.3,35.3
35	219.9	201.5	197.0	202.7	220.5	233.2	239.2	232.8	30- 35	67.85	299.5	45.6,45.6
40	192.0	175.1	168.5	176.4	192.9	209.6	214.1	209.3	35- 40	68.25	367.8	56,56
45	162.6	144.8	140.1	146.4	163.7	179.7	189.0	179.2	40- 45	65.43	433.2	66,66
50	132.7	115.2	111.9	117.0	133.7	150.4	159.2	149.4	45- 50	59.79	493.0	75.1,75.1
55	102.7	86.83	83.69	88.88	103.6	121.9	129.4	120.7	50- 55	51.64	544.6	83,83
60	74.10	61.00	55.47	62.59	74.56	92.01	99.61	91.34	55- 60	41.60	586.2	89.3,89.3
65	47.62	37.00	39.69	37.95	48.40	63.87	73.93	63.71	60- 65	30.74	617.0	94,94
70	25.49	20.25	23.91	20.73	25.99	40.62	48.26	40.89	65- 70	20.65	637.6	97.2,97.2
75	12.16	11.82	8.134	12.09	11.94	23.40	22.58	23.92	70- 75	11.89	649.5	99,99
80	7.363	4.335	0	4.416	7.052	8.064	0	8.652	75- 80	5.272	654.8	99.8,99.8
85	3.184	0	0	0	2.893	0	0	0	80- 85	1.297	656.1	100,100
90	0.0484	0	0	0	0.0100	0	0	0	85- 90	0.1249	656.2	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

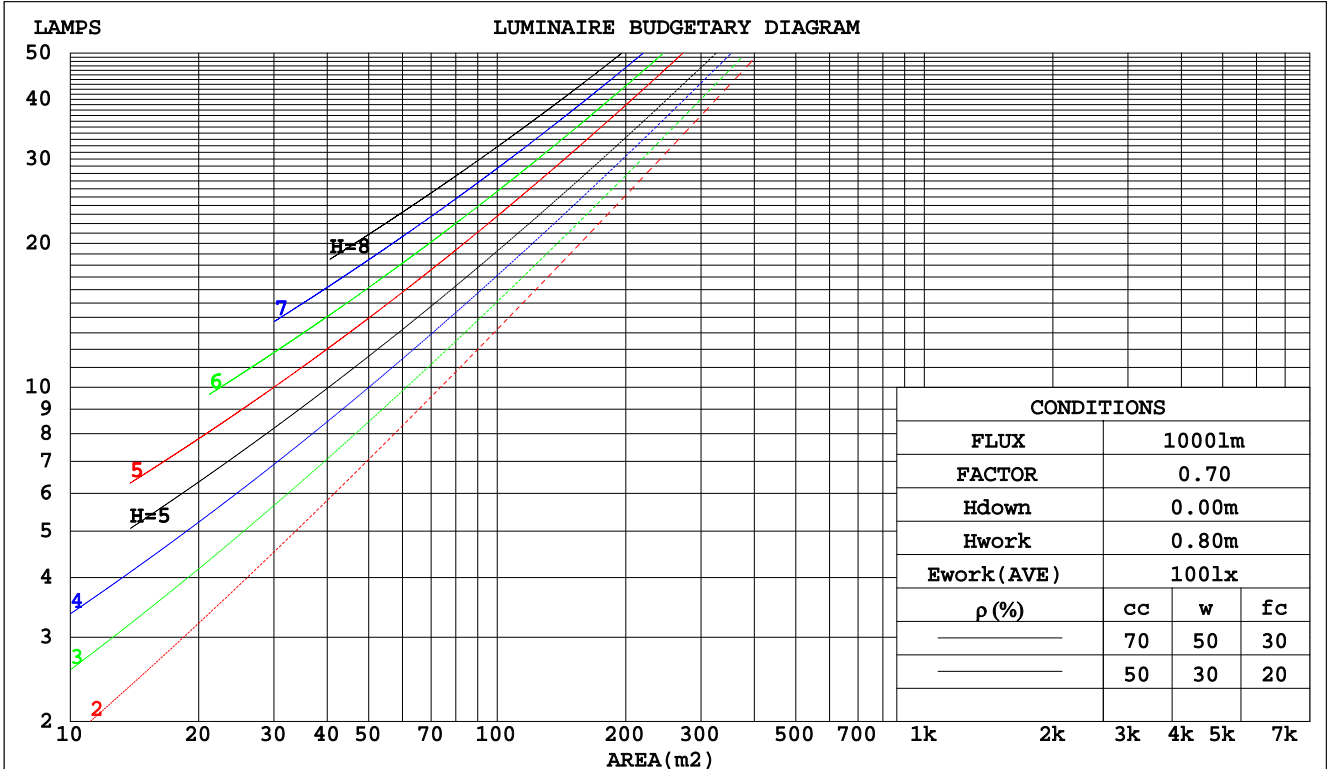
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DOBAC
Test Date:2017-11-03

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Humidity:65.0%
Test Distance:6.960m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: Tremo-10W-90D-4000K-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.07	1.03	1.00	1.05	1.01	.99	1.00	.98	.95	.97	.94	.93	.93	.91	.90	.88
2.0	.95	.89	.84	.93	.88	.83	.90	.85	.81	.87	.83	.80	.84	.81	.78	.76
3.0	.85	.78	.72	.83	.77	.71	.80	.75	.70	.78	.73	.69	.75	.71	.68	.66
4.0	.76	.68	.62	.75	.68	.62	.72	.66	.61	.70	.65	.60	.68	.63	.60	.58
5.0	.69	.61	.55	.68	.60	.54	.66	.59	.54	.64	.58	.53	.62	.57	.53	.51
6.0	.62	.54	.48	.61	.54	.48	.60	.53	.48	.58	.52	.47	.57	.51	.47	.45
7.0	.57	.49	.43	.56	.48	.43	.55	.48	.43	.53	.47	.42	.52	.46	.42	.40
8.0	.52	.44	.39	.52	.44	.39	.50	.43	.38	.49	.43	.38	.48	.42	.38	.36
9.0	.48	.40	.35	.48	.40	.35	.46	.40	.35	.45	.39	.35	.44	.39	.35	.33
10.0	.45	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.32	.41	.36	.32	.30



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DOBAC
 Test Date: 2017-11-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.260
 Humidity: 65.0%
 Test Distance: 6.960m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME: Tremo-10W-90D-4000K-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

ρ _{cc}	80%			70%			50%			30%			10%			0
ρ _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.253	.144	.046	.246	.141	.045	.233	.134	.043	.221	.128	.041	.210	.122	.039	
2.0	.247	.135	.042	.241	.133	.041	.230	.128	.040	.219	.123	.039	.210	.119	.037	
3.0	.235	.125	.037	.229	.123	.037	.219	.119	.036	.210	.115	.035	.202	.112	.035	
4.0	.221	.115	.034	.216	.113	.033	.207	.110	.033	.199	.107	.032	.192	.104	.032	
5.0	.207	.106	.031	.203	.104	.030	.195	.102	.030	.188	.099	.030	.181	.097	.029	
6.0	.195	.098	.028	.191	.096	.028	.184	.094	.027	.178	.092	.027	.172	.090	.027	
7.0	.183	.090	.026	.180	.090	.026	.174	.088	.025	.168	.086	.025	.162	.084	.025	
8.0	.172	.084	.024	.169	.083	.024	.164	.082	.023	.159	.080	.023	.154	.079	.023	
9.0	.163	.079	.022	.160	.078	.022	.155	.077	.022	.150	.075	.022	.146	.074	.021	
10.0	.154	.074	.020	.152	.073	.020	.147	.072	.020	.143	.071	.020	.139	.070	.020	

ρ _{cc}	80%			70%			50%			30%			10%			0
ρ _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.176	.157	.139	.151	.134	.119	.103	.092	.083	.059	.054	.048	.019	.017	.016	
2.0	.166	.132	.103	.142	.114	.089	.098	.079	.062	.056	.046	.037	.018	.015	.012	
3.0	.158	.114	.079	.135	.098	.069	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.150	.100	.063	.129	.087	.054	.088	.060	.038	.051	.035	.023	.016	.012	.007	
5.0	.143	.090	.051	.122	.078	.044	.084	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.136	.081	.042	.117	.070	.036	.081	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.129	.074	.035	.111	.064	.031	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.123	.068	.030	.106	.059	.027	.074	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.118	.063	.027	.102	.055	.023	.070	.039	.016	.041	.023	.010	.013	.007	.003	
10.0	.113	.059	.023	.097	.051	.020	.067	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DOBAC
 Test Date:2017-11-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.260
 Humidity:65.0%
 Test Distance:6.960m [K=1.0000]
 Remarks:

Uncorrected UGR Table

NAME: Tremo-10W-90D-4000K-80					TYPE:					WEIGHT:				
DIM.:					SPEC.:					SERIAL No.:				
MFR.: DOBAC					SUR.:					PROTECTION ANGLE:				
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3				
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3				
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2				
Room dimensions	Viewed crosswise					Viewed endwise								
x = 2H y = 2H	23.9	25.3	24.2	25.5	25.7	23.2	24.6	23.5	24.8	25.0				
3H	24.3	25.6	24.6	25.8	26.0	23.7	25.0	24.0	25.2	25.4				
4H	24.3	25.5	24.6	25.8	26.0	23.7	24.9	24.0	25.2	25.4				
6H	24.3	25.4	24.7	25.7	26.0	23.6	24.7	24.0	25.0	25.3				
8H	24.3	25.4	24.7	25.7	26.0	23.6	24.7	23.9	24.9	25.2				
12H	24.3	25.3	24.6	25.6	25.9	23.5	24.6	23.9	24.8	25.1				
4H 2H	24.0	25.2	24.3	25.5	25.7	23.4	24.6	23.7	24.9	25.1				
3H	24.5	25.5	24.9	25.8	26.1	24.0	25.1	24.4	25.3	25.6				
4H	24.6	25.5	24.9	25.8	26.2	24.1	25.0	24.5	25.3	25.7				
6H	24.6	25.5	25.0	25.8	26.2	24.0	24.8	24.4	25.2	25.5				
8H	24.6	25.4	25.1	25.8	26.1	24.0	24.7	24.4	25.1	25.5				
12H	24.6	25.3	25.1	25.7	26.1	23.9	24.6	24.4	25.0	25.4				
8H 4H	24.5	25.3	24.9	25.7	26.0	24.1	24.8	24.5	25.2	25.6				
6H	24.6	25.3	25.1	25.7	26.1	24.0	24.6	24.4	25.0	25.5				
8H	24.7	25.2	25.1	25.6	26.1	24.0	24.5	24.4	24.9	25.4				
12H	24.7	25.2	25.2	25.6	26.1	23.9	24.4	24.4	24.8	25.3				
12H 4H	24.5	25.2	24.9	25.6	26.0	24.0	24.7	24.4	25.1	25.5				
6H	24.6	25.1	25.1	25.6	26.0	24.0	24.5	24.4	24.9	25.4				
8H	24.6	25.1	25.1	25.6	26.0	23.9	24.4	24.4	24.8	25.3				
Variations with the observer position at spacings:														
S = 1.0H	+ 0.5 / - 0.6					+ 0.6 / - 0.8								
1.5H	+ 0.3 / - 0.6					+ 0.3 / - 0.3								
2.0H	+ 1.2 / - 1.7					+ 1.3 / - 2.1								

CIE Pub.117 Corrected 656.2 lm Total Lamp Luminous Flux. (8log(F/F0) = -1.5)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DOBAC
Test Date: 2017-11-03

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Humidity: 65.0%
Test Distance: 6.960m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: Tremo-10W-90D-4000K-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

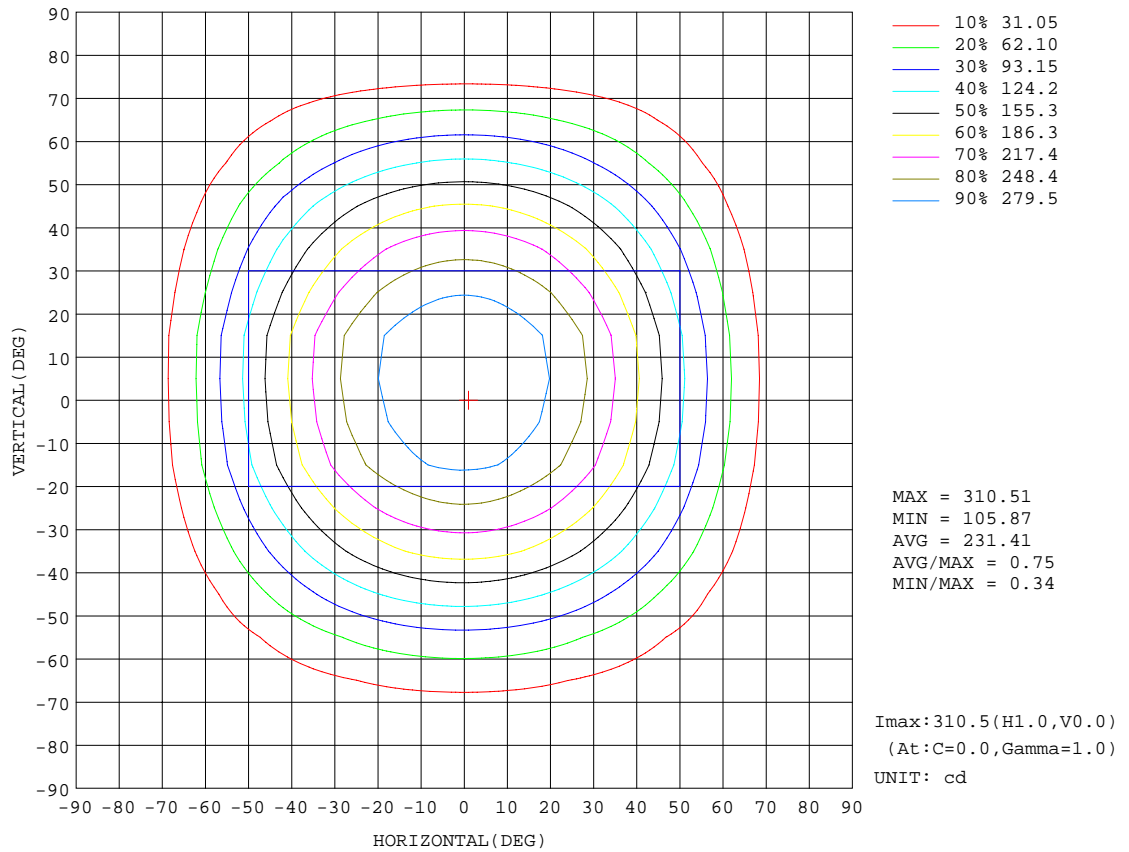
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	64	53	47	63	53	47	62	53	47	41
0.80	74	64	57	73	63	57	71	63	57	51
1.00	82	73	66	81	72	66	79	73	66	59
1.25	89	80	74	88	80	74	85	78	73	67
1.50	94	85	80	92	85	79	89	83	78	71
2.00	100	93	87	98	92	87	95	89	85	78
2.50	103	96	92	101	95	91	97	93	89	81
3.00	106	100	96	104	99	95	100	96	92	85
4.00	109	104	101	107	103	99	103	99	97	88
5.00	111	107	104	109	105	102	104	102	99	90
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNM = 1.25			

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DOBAC
Test Date: 2017-11-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Humidity: 65.0%
Test Distance: 6.960m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: Tremo-10W-90D-4000K-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

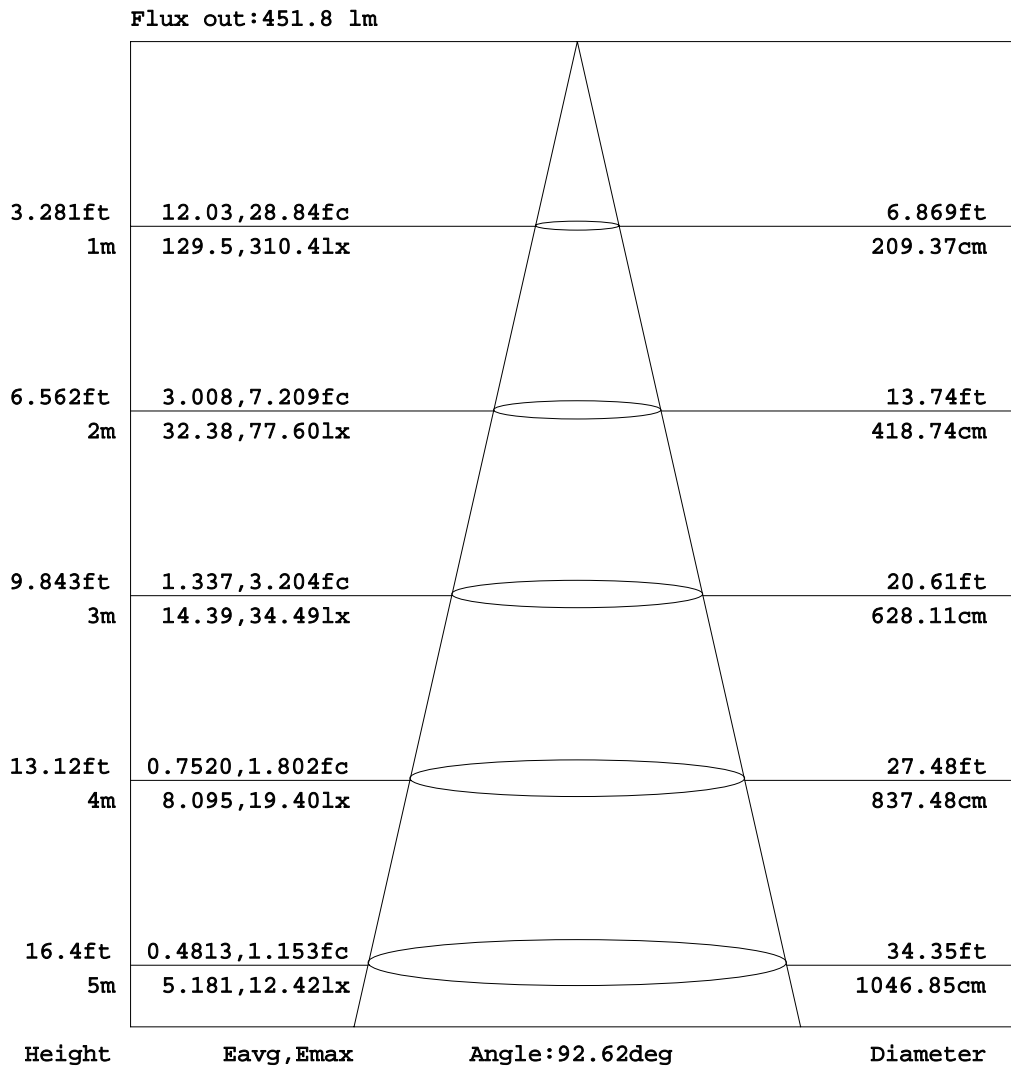


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DOBAC
 Test Date: 2017-11-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.260
 Humidity: 65.0%
 Test Distance: 6.960m [K=1.0000]
 Remarks:

AAI Figure

NAME: Tremo-10W-90D-4000K-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:



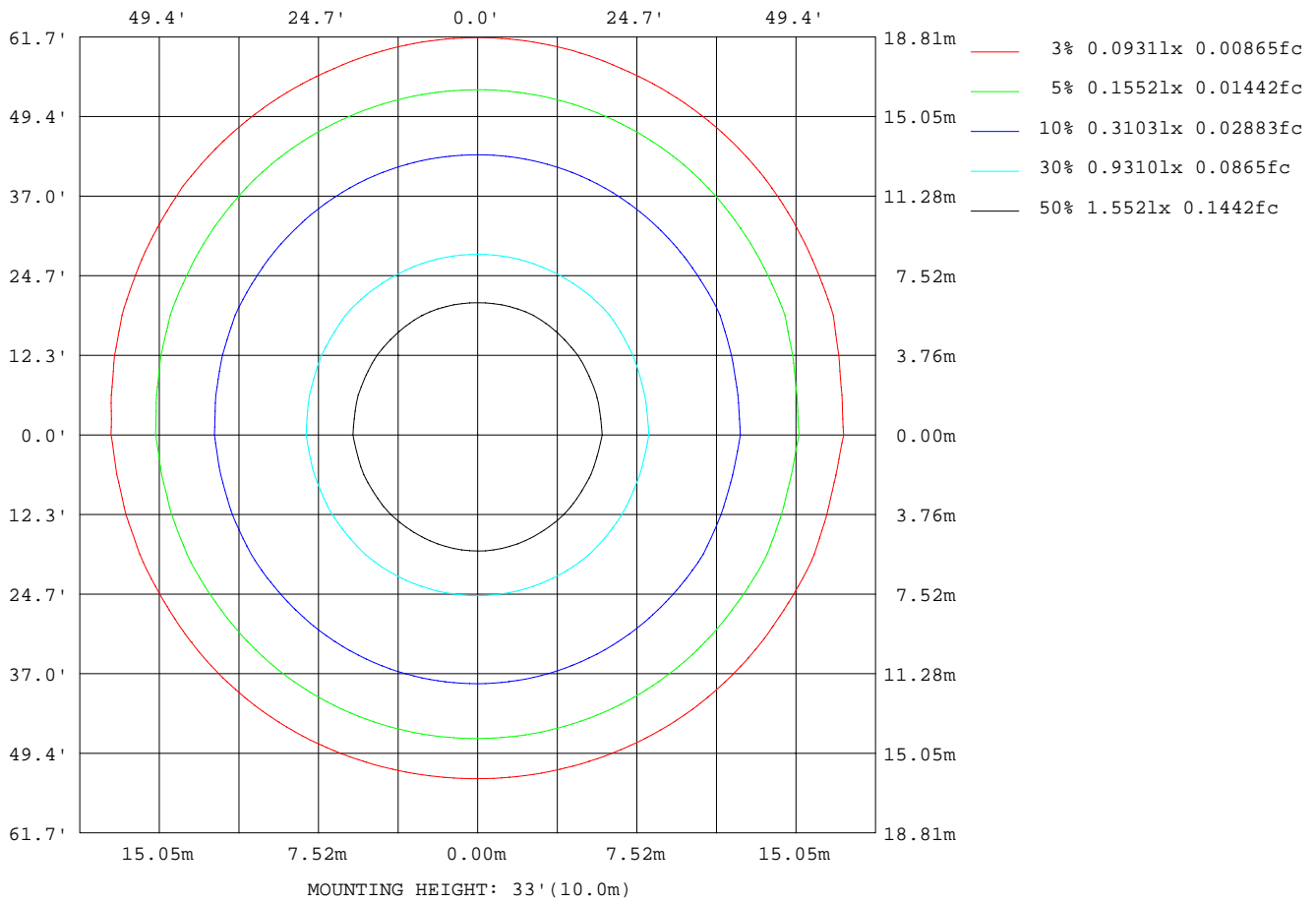
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DOBAC
Test Date: 2017-11-03

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Humidity: 65.0%
Test Distance: 6.960m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: Tremo-10W-90D-4000K-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DOBAC
 Test Date: 2017-11-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.260
 Humidity: 65.0%
 Test Distance: 6.960m [K=1.0000]
 Remarks:

Average Luminance Table(CIBSE)

NAME: Tremo-10W-90D-4000K-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	656.184	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.0055	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:1996 Average Luminance

G deg	C plane(deg)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	32556	30807	29606	28726	27819	27398	27046	26729	26554	26527	26683	27016	27498	27962	28445	29222	30159	31702	32830
60	26946	25082	24282	22993	22388	21922	21268	20667	20273	20171	20384	20890	21627	22416	23022	23532	24578	25939	27113
65	20489	18622	17768	16934	16480	15280	15622	16504	16926	17076	17019	16689	15885	15612	16957	17526	18149	19264	20825
70	13548	12074	11183	11544	9752	11582	12539	12777	12735	12712	12797	12907	12730	11837	9998	11773	11556	12466	13814
75	8545	7966	7823	7211	7877	8488	8037	6998	6066	5714	6077	7033	8110	8654	8019	7054	7885	7857	8388
80	7710	7016	6519	6062	5417	3676	2160	989	252	0	252	991	2162	3732	5428	5896	6323	6834	7384
85	6641	5375	4341	0	0	0	0	0	0	0	0	0	0	0	0	0	4092	4839	6036

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

CIBSE Category	Gamma (deg)	Average Luminance		Patch Luminance	
		maximum	specified	maximum	specified
		calculated	maximum	measured	maximum
Category 1	55 to 90	32830	200	---	500
Category 2	65 to 90	20825	200	---	500
Category 3	75 to 90	8654	200	---	500

Table 3. Tabulation of Average and Patch Luminance(cd/sq.m.) for defined CIBSE categories

No match

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DOBAC
Test Date:2017-11-03

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Humidity:65.0%
Test Distance:6.960m [K=1.0000]
Remarks:

Average Luminance Table(CIBSE)

NAME: Tremo-10W-90D-4000K-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	656.184	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.0055	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:2001 Average Luminance

G deg	C plane(deg)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	32556	30807	29606	28726	27819	27398	27046	26729	26554	26527	26683	27016	27498	27962	28445	29222	30159	31702	32830
60	26946	25082	24282	22993	22388	21922	21268	20667	20273	20171	20384	20890	21627	22416	23022	23532	24578	25939	27113
65	20489	18622	17768	16934	16480	15280	15622	16504	16926	17076	17019	16689	15885	15612	16957	17526	18149	19264	20825
70	13548	12074	11183	11544	9752	11582	12539	12777	12735	12712	12797	12907	12730	11837	9998	11773	11556	12466	13814
75	8545	7966	7823	7211	7877	8488	8037	6998	6066	5714	6077	7033	8110	8654	8019	7054	7885	7857	8388
80	7710	7016	6519	6062	5417	3676	2160	989	252	0	252	991	2162	3732	5428	5896	6323	6834	7384
85	6641	5375	4341	0	0	0	0	0	0	0	0	0	0	0	0	0	4092	4839	6036

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

range (deg)	Maximum measured	Average Luminance(cd/sq.m)			
		Maximum limit for screen type & software category used			
		Type I,II screen Some neg.s'ware	Type I,II screen Only pos.s'ware	Type III screen Some neg.s'ware	Type III screen Only pos.s'ware
55 to 90	32830	1000	1500	200	500
65 to 90	20825	1000	1500	200	500

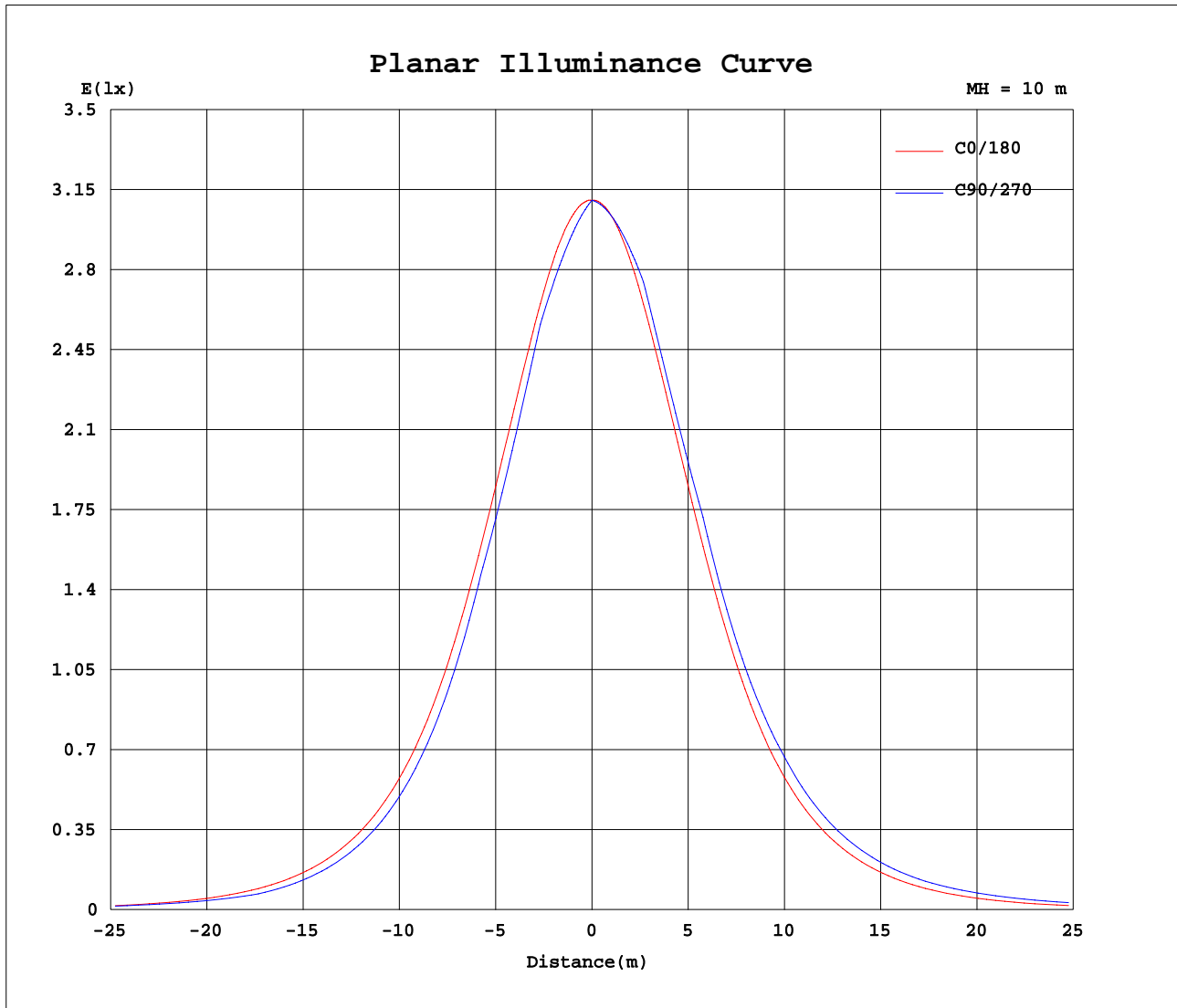
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

No match

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DOBAC
Test Date:2017-11-03

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Humidity:65.0%
Test Distance:6.960m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DOBAC
 Test Date: 2017-11-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.260
 Humidity: 65.0%
 Test Distance: 6.960m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: Tremo-10W-90D-4000K-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310
5	309	308	307	307	306	305	305	304	304	303	303	303	302	302	302	302	302	302	302
10	304	302	301	299	298	297	296	296	295	294	294	294	293	293	293	293	293	293	293
15	294	292	290	288	287	286	285	284	284	284	283	283	283	283	284	284	284	284	284
20	281	278	276	274	272	271	271	271	271	271	270	269	267	266	266	265	265	265	265
25	265	261	258	256	255	254	254	255	252	250	248	247	246	246	245	245	245	245	245
30	244	240	237	235	234	234	233	230	228	226	225	225	225	225	225	225	225	225	225
35	220	215	212	210	210	208	206	204	202	202	201	202	200	199	198	198	197	197	197
40	192	187	184	183	182	179	177	176	176	175	173	172	171	170	169	169	169	169	169
45	163	158	155	155	152	150	149	149	147	145	143	142	141	141	140	140	140	140	140
50	133	128	126	124	122	121	121	118	117	115	114	113	113	112	112	112	112	112	112
55	103	98.3	97.2	94.6	93.4	92.9	90.6	89.1	87.8	86.8	86.4	85.9	85.3	84.8	84.3	84.0	83.8	83.6	83.7
60	74.1	70.2	69.0	67.1	66.8	64.8	63.2	61.8	61.6	61.0	60.3	59.4	58.5	57.6	56.8	56.2	55.8	55.5	55.5
65	47.6	44.7	43.3	42.7	41.3	39.8	39.4	39.3	38.3	37.0	35.5	34.7	36.3	37.5	38.4	39.0	39.3	39.6	39.7
70	25.5	23.7	22.7	22.4	21.0	21.8	21.7	20.0	18.3	20.3	21.8	22.9	23.6	23.9	24.0	24.0	24.0	23.9	23.9
75	12.2	11.6	11.3	11.2	11.1	11.2	10.3	10.5	11.2	11.8	12.1	11.9	11.4	10.7	9.96	9.23	8.64	8.28	8.13
80	7.36	6.97	6.70	6.44	6.23	6.02	5.79	5.52	5.17	4.33	3.51	2.75	2.06	1.46	0.94	0.54	0.24	0.06	0.00
85	3.18	1.86	2.58	2.48	2.08	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DOBAC
 Test Date: 2017-11-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.260
 Humidity: 65.0%
 Test Distance: 6.960m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: Tremo-10W-90D-4000K-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310
5	302	302	302	302	302	303	303	303	303	304	304	305	305	306	307	307	308	309	309
10	293	293	293	293	293	294	294	294	295	295	296	296	297	298	299	300	302	303	303
15	284	284	284	284	284	284	284	284	284	284	285	285	286	287	288	290	292	294	294
20	265	265	265	266	267	268	269	271	272	272	272	272	272	273	274	276	278	281	281
25	245	245	245	246	246	247	248	249	251	253	256	256	255	256	257	259	261	265	264
30	225	225	225	225	225	225	226	226	228	229	232	235	236	236	236	238	241	245	244
35	197	197	198	199	200	201	202	202	203	204	205	208	211	212	212	214	216	220	220
40	169	169	169	170	171	172	173	174	176	177	178	179	182	185	186	186	189	193	193
45	140	141	141	142	142	143	144	145	146	148	150	150	152	155	158	158	160	164	164
50	112	112	113	113	114	115	115	116	117	118	120	122	123	124	128	129	130	134	134
55	83.8	84.2	84.6	85.2	85.9	86.7	87.5	88.2	88.9	89.7	90.8	92.2	94.2	95.1	97.1	100	100	104	104
60	55.7	56.1	56.7	57.4	58.4	59.5	60.6	61.6	62.6	63.3	63.8	64.7	66.0	67.6	68.6	71.3	71.9	74.6	75.6
65	39.7	39.6	39.3	38.8	38.0	36.9	35.4	36.3	38.0	39.4	40.4	40.7	41.0	42.2	43.5	44.8	46.3	48.4	49.6
70	24.0	24.1	24.2	24.3	24.2	23.9	23.3	22.3	20.7	18.8	20.4	22.1	22.5	21.7	22.9	23.4	24.9	26.0	27.5
75	8.25	8.65	9.27	10.0	10.8	11.5	12.1	12.3	12.1	11.4	10.5	10.0	11.2	11.2	11.1	11.2	11.7	11.9	12.7
80	0.06	0.24	0.54	0.95	1.46	2.07	2.77	3.56	4.42	5.18	5.45	5.63	5.85	6.04	6.24	6.53	6.71	7.05	7.33
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	1.96	2.31	2.32	1.88	2.89	3.19
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DOBAC
 Test Date:2017-11-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.260
 Humidity:65.0%
 Test Distance:6.960m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: Tremo-10W-90D-4000K-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

Table--3

UNIT: cd

C(DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310
5	309	308	308	308	308	308	308	308	308	308	308	308	309	309	309	309	308	309	309
10	303	303	303	303	303	303	304	304	305	305	305	306	306	306	306	307	307	307	306
15	293	294	294	294	295	296	297	298	299	300	301	302	303	304	304	305	305	305	304
20	281	281	282	283	285	286	288	290	291	291	291	291	291	291	291	291	291	291	291
25	265	266	267	269	272	275	274	274	274	274	275	276	276	277	277	278	278	278	277
30	245	247	249	252	254	254	254	254	256	257	258	260	261	263	264	264	264	264	263
35	221	224	228	230	229	230	231	233	236	238	239	239	239	239	239	239	239	239	239
40	194	198	201	201	202	204	207	210	210	211	211	212	213	213	214	214	214	214	214
45	166	171	171	172	174	178	179	180	181	182	184	185	187	188	188	189	189	189	188
50	137	140	140	143	146	147	148	150	153	155	156	157	158	158	159	159	159	159	159
55	108	109	111	114	115	117	119	122	123	125	126	127	128	128	129	129	129	129	129
60	78.9	79.6	82.4	83.8	86.0	88.9	90.9	92.0	93.6	94.9	96.1	97.2	98.0	98.7	99.2	99.5	99.6	99.5	99.2
65	51.2	53.2	54.6	56.9	59.4	61.0	62.5	63.9	65.1	66.5	68.8	70.5	71.7	72.7	73.3	73.7	73.9	73.8	73.5
70	28.3	29.9	31.5	33.7	35.2	36.1	37.4	40.6	42.9	44.5	45.8	46.7	47.2	47.6	47.9	48.1	48.3	48.3	48.1
75	13.4	14.1	16.1	16.2	17.2	20.1	22.3	23.4	23.7	23.6	23.6	23.4	23.0	22.7	22.6	22.6	22.6	22.7	22.9
80	7.75	8.00	8.33	8.47	9.16	9.69	9.29	8.06	6.72	5.55	4.53	3.43	2.35	1.40	0.65	0.17	0.00	0.17	0.66
85	3.38	3.69	3.59	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DOBAC
Test Date: 2017-11-03
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Humidity: 65.0%
Test Distance: 6.960m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: Tremo-10W-90D-4000K-80	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: DOBAC	SUR.:	PROTECTION ANGLE:

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310				
5	309	308	308	308	308	308	308	308	308	308	308	308	308	309	309				
10	306	306	306	305	305	304	304	304	303	303	303	303	303	303	303				
15	304	303	302	301	300	299	298	297	296	295	294	294	293	293	294				
20	291	291	291	290	290	291	290	288	286	284	282	281	281	280	280				
25	277	276	275	275	274	273	273	273	273	271	268	266	265	264	264				
30	263	261	260	258	257	255	254	253	252	252	251	248	245	244	244				
35	239	239	239	239	238	236	233	231	229	228	227	226	222	220	219				
40	213	212	212	211	210	210	209	207	204	201	199	199	196	192	191				
45	187	186	185	183	182	180	179	178	178	174	170	169	168	164	162				
50	158	157	156	155	154	152	149	148	146	146	142	139	137	134	132				
55	128	127	126	125	124	122	121	118	116	114	113	110	107	106	102				
60	98.7	98.0	97.0	95.9	94.6	93.1	91.3	89.5	87.6	85.0	83.1	82.3	78.5	76.7	74.0				
65	72.8	71.9	70.6	68.9	66.7	65.2	63.7	62.1	60.3	58.2	56.2	54.3	53.0	49.9	48.1				
70	47.9	47.5	46.9	46.0	44.9	43.2	40.9	37.6	36.1	34.9	33.3	30.9	29.6	27.7	26.2				
75	23.1	23.4	23.6	23.9	24.1	24.2	23.9	22.7	20.6	17.6	16.4	15.9	14.0	13.5	12.5				
80	1.42	2.40	3.49	4.63	5.80	7.06	8.65	10.2	10.6	9.97	9.02	8.70	8.31	7.96	7.61				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.93	3.86	4.01	3.75	3.39			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DOBAC
Test Date:2017-11-03

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Humidity:65.0%
Test Distance:6.960m [K=1.0000]
Remarks: