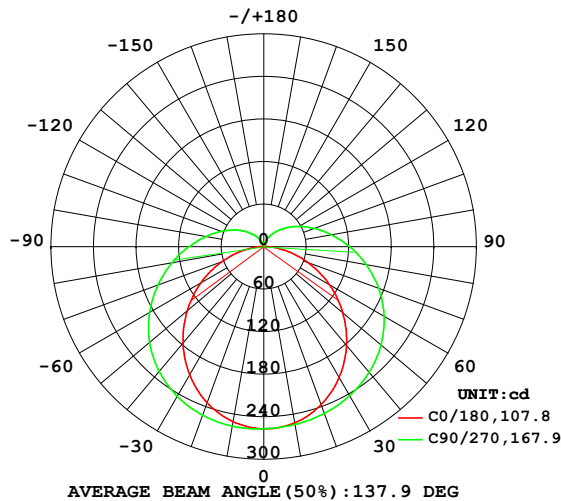


LUMINAIRE PHOTOMETRIC TEST REPORT

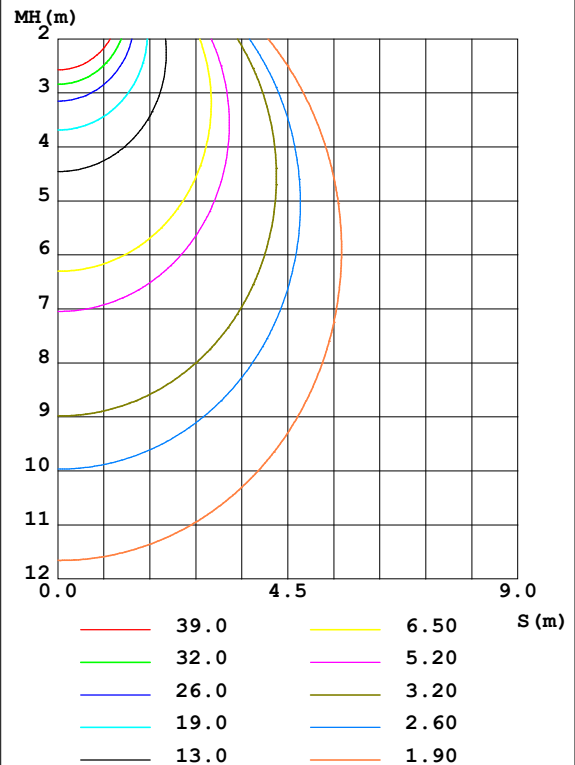
Test:U:230.4V I:0.0798A P:10W PF:0.5546 Freq:49.99Hz Lamp Flux:1050x1 lm		
SGSO SKU: 0028920141	TYPE:	WEIGHT:
SPEC.:0.6m T5 Cabinet,10W,1050lm,105lm/W,3CCT Switch,3000/3500/4000K,Linkable	DIM.: $\varnothing 582 \times 21.5 \text{mm}$	SERIAL No.:
MFR.: TOSPO	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 105 lm/W			
MODEL	0.6m-10w-4000K	Imax(cd)	257.4	S/MH(C0/180)	1.22
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	1.42
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1050	η UP,DN(C0-180)	9.1,42.3
NOMINAL FLUX(lm)	1050	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	7.6,41.1
LAMPS INSIDE	1	η up(%)	16.6	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)		η down(%)	83.4	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Testing Room
Test Date:2023-03-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.0.361
Humidity:25%
Test Distance:11.350m [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
10	252.2	253.1	254.6	252.2	250.6	254.1	257.1	255.2	0- 10	24.37	24.37	2.08,2.08
20	237.1	243.5	250.3	241.8	234.2	244.2	253.0	246.3	10- 20	70.50	94.87	8.09,8.09
30	212.9	228.3	242.7	226.0	208.9	227.7	243.9	230.6	20- 30	109.1	204.0	17.4,17.4
40	181.7	208.3	231.3	205.6	177.2	205.6	229.7	209.1	30- 40	136.2	340.2	29,29
50	145.6	184.8	215.9	182.0	141.1	179.7	210.3	183.4	40- 50	149.6	489.8	41.8,41.8
60	106.8	159.0	196.1	156.2	102.5	151.5	186.1	155.3	50- 60	149.0	638.8	54.5,54.5
70	66.94	132.3	172.5	129.8	63.30	123.1	158.9	126.4	60- 70	135.9	774.7	66.1,66.1
80	29.41	106.7	146.8	104.5	26.76	96.42	131.4	99.29	70- 80	114.1	888.8	75.8,75.8
90	3.946	83.52	121.0	81.76	3.502	73.27	105.7	75.51	80- 90	88.87	977.6	83.4,83.4
100	0.7954	63.91	97.04	62.63	1.064	54.36	83.06	56.00	90-100	66.77	1044	89.1,89.1
110	0.9618	47.89	75.81	47.02	1.055	39.56	63.70	40.68	100-110	48.85	1093	93.2,93.2
120	1.161	35.22	57.43	34.32	1.207	26.97	47.32	28.86	110-120	34.14	1127	96.2,96.2
130	1.296	25.17	41.78	22.70	1.359	17.18	33.54	19.80	120-130	22.11	1150	98,98
140	1.434	16.73	28.66	12.28	1.503	9.424	21.59	12.95	130-140	12.83	1162	99.1,99.1
150	1.563	10.50	17.72	6.795	1.625	4.535	12.94	7.272	140-150	6.435	1169	99.7,99.7
160	1.665	5.771	9.081	3.837	1.746	2.520	5.537	3.630	150-160	2.640	1171	99.9,99.9
170	1.730	2.677	2.710	2.454	1.777	1.805	1.813	2.001	160-170	0.8407	1172	100,100
180	1.784	1.843	1.859	1.834	1.784	1.813	1.813	1.818	170-180	0.1873	1172	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 414.19 lm

%lum = 35.3%

%lamp = 35.3%

Conical surface Flux(120deg): 638.79 lm

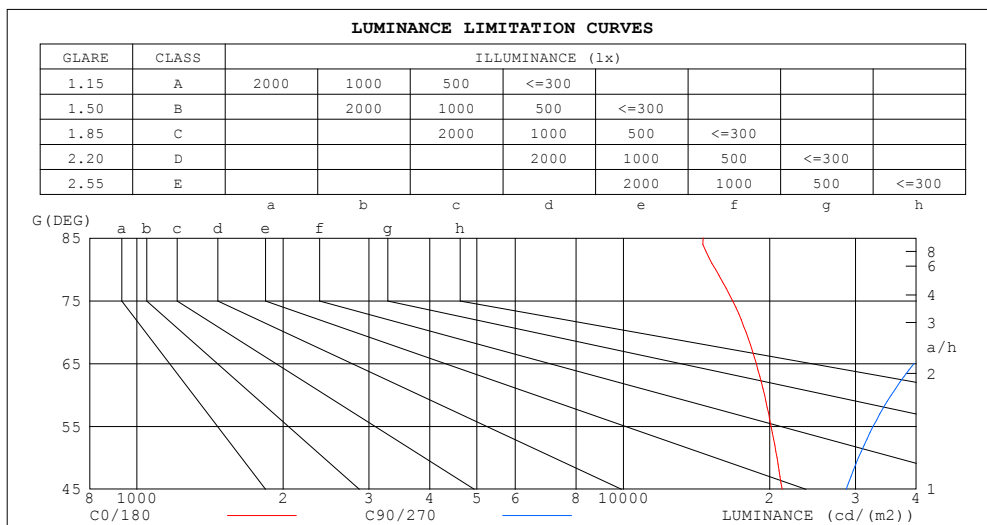
%lum = 54.5%

%lamp = 54.5%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Testing Room
 Test Date:2023-03-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.0.361
 Humidity:25%
 Test Distance:11.350m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	14602	139100
80	15474	76603
75	16765	55939
70	17881	45729
65	18771	39603
60	19509	35547
55	20131	32634
50	20695	30445
45	21207	28737

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Testing Room
Test Date:2023-03-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.0.361
Humidity:25%
Test Distance:11.350m [K=1.0000]
Remarks:

WEC AND CCEC

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						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.388	.220	.070	.375	.214	.068	.352	.202	.065	.331	.191	.061	.312	.181	.058	
2.0	.335	.184	.056	.324	.179	.055	.304	.169	.052	.284	.159	.050	.267	.151	.048	
3.0	.298	.159	.047	.288	.154	.046	.269	.146	.044	.252	.138	.042	.235	.130	.040	
4.0	.268	.139	.041	.259	.136	.040	.242	.128	.038	.226	.121	.037	.211	.115	.035	
5.0	.243	.124	.036	.235	.121	.035	.220	.114	.034	.205	.108	.032	.192	.103	.031	
6.0	.223	.112	.032	.216	.109	.031	.202	.103	.030	.188	.098	.029	.176	.093	.028	
7.0	.206	.102	.029	.199	.099	.028	.186	.094	.027	.174	.089	.026	.163	.084	.025	
8.0	.191	.093	.026	.184	.091	.026	.173	.086	.025	.162	.082	.024	.151	.078	.023	
9.0	.178	.086	.024	.172	.084	.024	.161	.080	.023	.151	.076	.022	.141	.072	.021	
10.0	.166	.080	.022	.161	.078	.022	.151	.074	.021	.142	.070	.020	.133	.067	.019	

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						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.317	.317	.317	.271	.271	.271	.185	.185	.185	.106	.106	.106	.034	.034	.034	
1.0	.313	.283	.256	.268	.243	.220	.183	.167	.152	.106	.097	.089	.034	.031	.029	
2.0	.307	.260	.221	.263	.224	.191	.180	.155	.133	.104	.090	.078	.033	.029	.025	
3.0	.299	.244	.200	.256	.210	.173	.176	.146	.121	.102	.085	.072	.033	.028	.023	
4.0	.291	.231	.185	.250	.200	.161	.172	.139	.113	.099	.082	.067	.032	.027	.022	
5.0	.284	.221	.175	.243	.191	.153	.168	.134	.108	.097	.079	.064	.031	.026	.021	
6.0	.276	.213	.168	.237	.185	.147	.164	.129	.104	.095	.076	.062	.031	.025	.020	
7.0	.269	.207	.163	.231	.179	.142	.160	.126	.101	.093	.074	.060	.030	.024	.020	
8.0	.262	.201	.159	.226	.174	.139	.156	.123	.098	.091	.072	.059	.029	.024	.019	
9.0	.256	.196	.156	.220	.170	.136	.153	.120	.097	.089	.071	.058	.029	.023	.019	
10.0	.250	.192	.154	.216	.167	.134	.150	.117	.095	.087	.069	.057	.028	.023	.019	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Testing Room
Test Date:2023-03-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.0.361
Humidity:25%
Test Distance:11.350m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

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	21.5	22.9	22.0	23.4	23.9	23.9	25.3	24.4	25.8	26.4
3H	23.1	24.4	23.6	24.9	25.5	26.7	28.0	27.2	28.5	29.1
4H	23.7	25.0	24.3	25.5	26.1	28.2	29.4	28.7	29.9	30.5
6H	24.2	25.4	24.8	26.0	26.6	29.8	30.9	30.4	31.5	32.1
8H	24.4	25.5	25.0	26.1	26.8	30.7	31.8	31.3	32.4	33.0
12H	24.6	25.6	25.1	26.2	26.9	31.7	32.8	32.3	33.4	34.0
4H 2H	22.8	24.0	23.3	24.5	25.1	24.5	25.7	25.0	26.3	26.9
3H	24.6	25.7	25.2	26.2	26.9	27.5	28.6	28.1	29.1	29.8
4H	25.4	26.4	26.1	27.0	27.7	29.2	30.2	29.8	30.8	31.4
6H	26.2	27.1	26.8	27.7	28.4	31.0	31.9	31.7	32.6	33.3
8H	26.5	27.3	27.1	27.9	28.7	32.1	32.9	32.7	33.5	34.3
12H	26.7	27.4	27.3	28.1	28.8	33.2	34.0	33.9	34.7	35.4
8H 4H	26.6	27.4	27.3	28.1	28.8	29.5	30.4	30.2	31.0	31.7
6H	27.7	28.4	28.4	29.1	29.9	31.7	32.4	32.4	33.1	33.8
8H	28.2	28.9	28.9	29.5	30.3	32.9	33.6	33.6	34.3	35.1
12H	28.7	29.2	29.4	29.9	30.7	34.4	34.9	35.1	35.6	36.5
12H 4H	27.0	27.7	27.6	28.4	29.2	29.5	30.3	30.2	31.0	31.7
6H	28.3	29.0	29.0	29.7	30.5	31.8	32.4	32.5	33.1	33.9
8H	29.0	29.6	29.7	30.3	31.1	33.2	33.7	33.9	34.4	35.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 1172 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.6$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Testing Room
Test Date:2023-03-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.0.361
Humidity:25%
Test Distance:11.350m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

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	48	36	28	47	35	28	45	34	28	21
0.80	57	44	36	56	43	36	53	42	35	27
1.00	65	52	44	63	51	43	60	52	42	33
1.25	72	59	51	70	58	50	65	55	48	39
1.50	77	65	56	74	63	55	70	60	53	43
2.00	84	73	65	81	71	63	76	67	61	49
2.50	89	78	70	85	76	69	79	72	66	53
3.00	92	83	76	89	81	74	83	76	70	57
4.00	97	89	83	93	86	80	86	81	76	62
5.00	100	93	87	96	90	85	89	84	80	65
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHR NOM = 1.25		

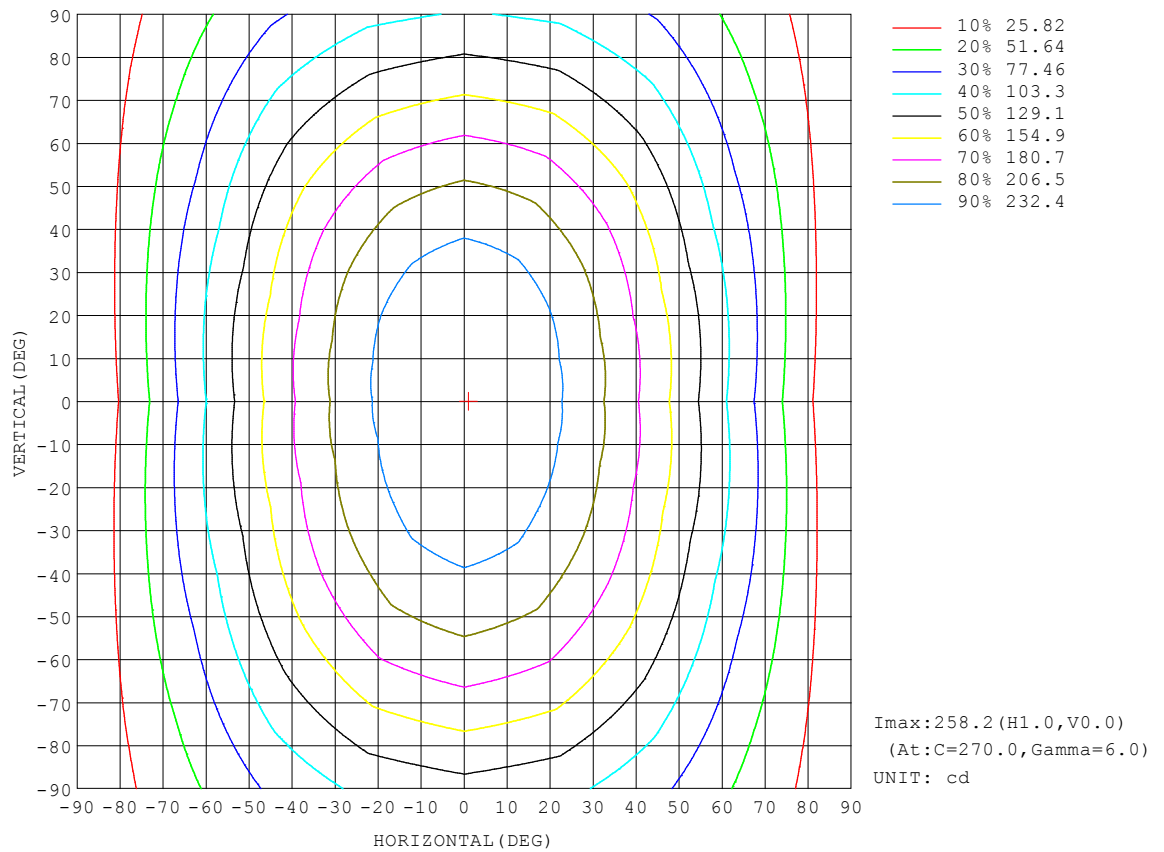
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Testing Room
Test Date:2023-03-02

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Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.0.361
Humidity:25%
Test Distance:11.350m [K=1.0000]
Remarks:

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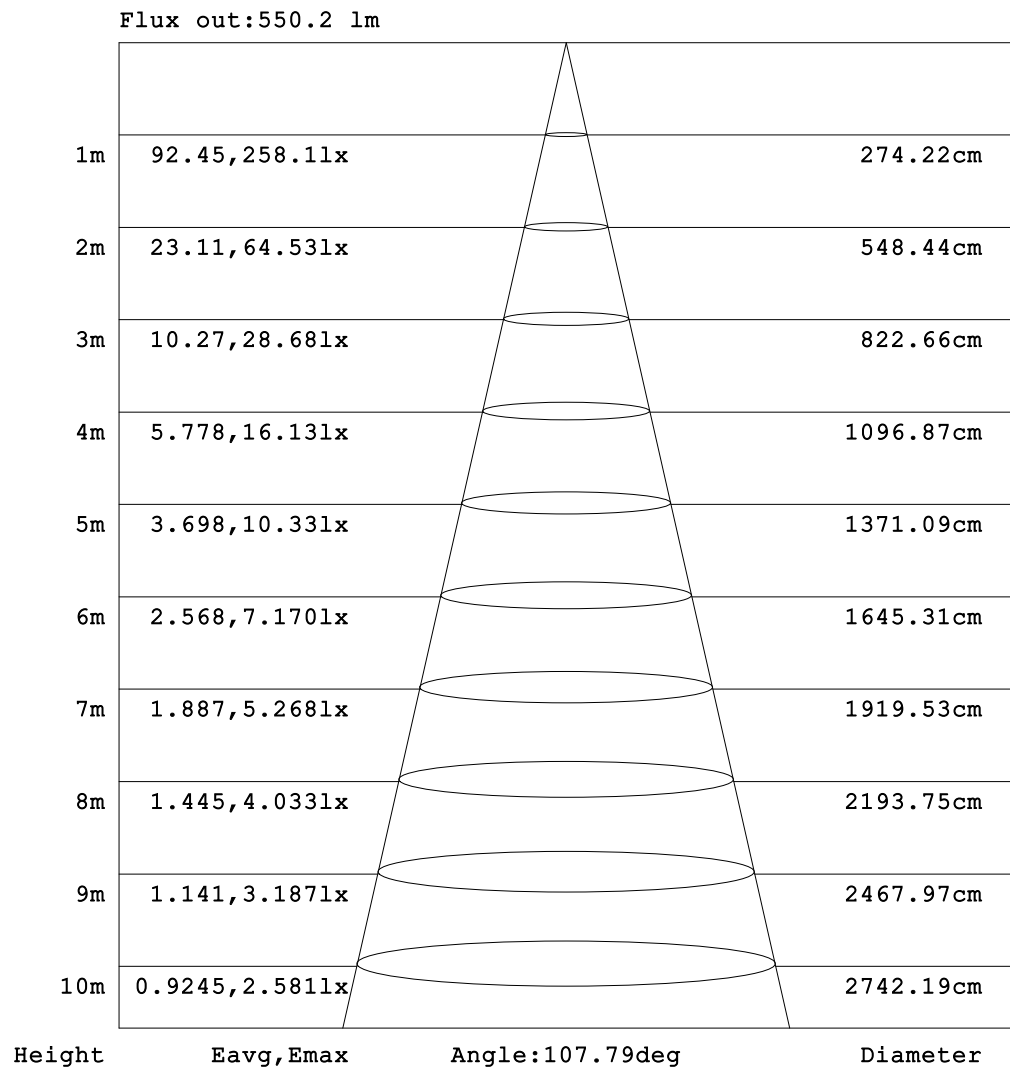
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Testing Room
Test Date:2023-03-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.0.361
Humidity:25%
Test Distance:11.350m [K=1.0000]
Remarks:

AAI Figure

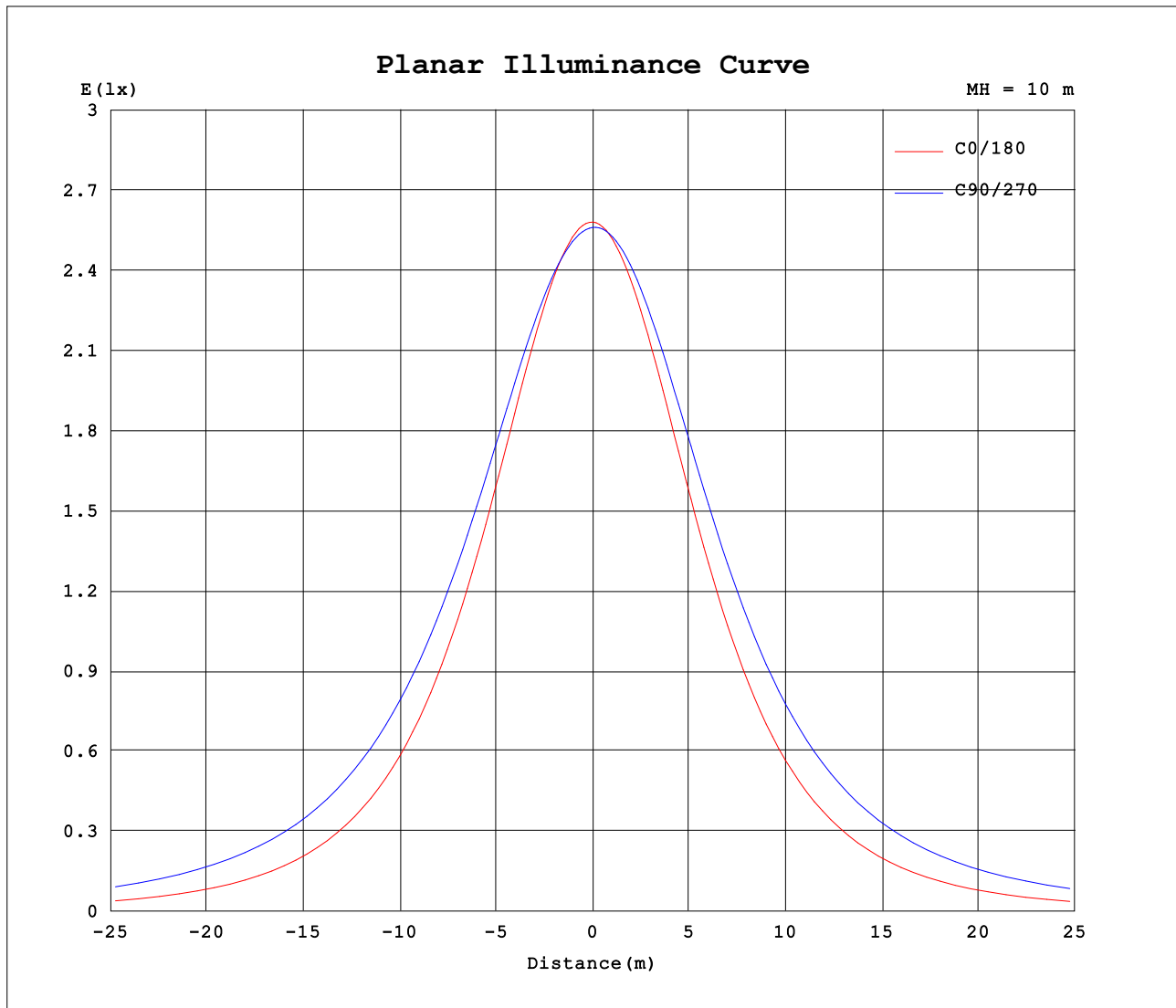


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Testing Room
Test Date: 2023-03-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-3000H_V1 SYSTEM V2.0.361
Humidity: 25%
Test Distance: 11.350m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Testing Room
 Test Date: 2023-03-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-3000H_V1 SYSTEM V2.0.361
 Humidity: 25%
 Test Distance: 11.350m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

γ (DEG) \ C (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257			
5	256	256	256	256	256	256	255	255	255	256	256	257	257	257	257	256			
10	252	252	253	254	255	254	252	251	251	252	254	256	257	257	255	253			
15	246	247	249	252	253	251	248	244	244	246	250	254	256	255	252	248			
20	237	239	244	249	250	248	242	236	234	238	244	250	253	251	246	240			
25	226	229	237	244	247	243	235	226	223	227	237	245	249	246	239	231			
30	213	217	228	239	243	238	226	214	209	215	228	239	244	240	231	219			
35	198	204	219	233	237	231	216	201	194	202	217	231	237	233	220	206			
40	182	190	208	225	231	224	206	186	177	187	206	222	230	224	209	191			
45	164	175	197	217	224	215	194	171	160	171	193	212	221	214	197	175			
50	146	159	185	208	216	206	182	155	141	155	180	201	210	203	183	159			
55	126	143	172	198	207	196	169	139	122	138	166	189	199	191	170	142			
60	107	126	159	187	196	185	156	122	103	121	152	176	186	178	155	125			
65	86.8	110	146	175	185	173	143	106	82.9	104	137	162	173	165	141	108			
70	66.9	93.4	132	162	173	161	130	90.0	63.3	87.7	123	148	159	151	126	91.4			
75	47.5	78.2	119	150	160	148	117	75.1	44.4	72.3	109	135	145	137	113	75.7			
80	29.4	64.2	107	137	147	136	105	61.5	26.8	58.4	96.4	122	131	124	99.3	61.3			
85	13.9	52.0	94.7	124	134	123	92.8	49.7	12.1	46.4	84.3	109	118	111	86.9	48.7			
90	3.95	41.8	83.5	112	121	111	81.8	40.0	3.50	36.5	73.3	96.8	106	98.5	75.5	38.3			
95	1.41	33.8	73.2	100	109	99.2	71.7	32.3	1.71	28.7	63.3	85.6	94.0	87.1	65.2	30.1			
100	0.80	27.5	63.9	89.2	97.0	88.2	62.6	26.4	1.06	22.9	54.4	75.3	83.1	76.6	56.0	23.9			
105	0.86	22.8	55.5	78.8	86.1	78.0	54.5	22.0	1.01	18.5	46.5	65.8	73.0	66.9	47.9	19.3			
110	0.96	19.2	47.9	69.1	75.8	68.4	47.0	18.6	1.06	15.1	39.6	56.5	63.7	58.0	40.7	15.7			
115	1.06	16.3	41.2	60.2	66.3	59.6	40.5	15.8	1.12	12.5	33.4	48.8	55.1	50.0	34.4	12.9			
120	1.16	13.3	35.2	52.0	57.4	51.5	34.3	12.9	1.21	10.1	27.0	41.5	47.3	42.6	28.9	10.7			
125	1.21	11.5	29.9	44.5	49.3	44.1	27.8	10.4	1.28	7.31	21.6	34.2	40.1	35.9	24.0	8.78			
130	1.30	9.90	25.2	37.7	41.8	37.3	22.7	8.12	1.36	5.16	17.2	27.9	33.5	29.9	19.8	6.79			
135	1.38	7.81	20.3	31.4	34.9	29.6	16.2	5.93	1.43	3.90	12.7	22.5	26.6	24.5	16.1	5.57			
140	1.43	6.58	16.7	25.5	28.7	24.0	12.3	4.79	1.50	3.04	9.42	17.1	21.6	19.7	13.0	4.02			
145	1.52	4.92	13.8	20.1	22.3	16.5	9.41	3.91	1.56	2.50	6.33	12.4	17.1	15.5	9.45	3.28			
150	1.56	4.17	10.5	16.1	17.7	11.8	6.79	3.28	1.62	1.63	4.54	8.05	12.9	11.3	7.27	2.45			
155	1.60	3.46	7.73	12.0	13.5	8.03	4.91	2.77	1.70	1.65	3.34	5.11	6.54	8.08	5.12	1.82			
160	1.67	2.57	5.77	8.22	9.08	5.11	3.84	2.51	1.75	1.67	2.52	3.44	5.54	5.29	3.63	1.76			
165	1.68	1.98	4.19	5.45	6.08	3.55	2.94	2.27	1.77	1.69	1.77	2.20	2.59	3.35	2.13	1.76			
170	1.73	1.85	2.68	3.63	2.71	2.57	2.45	1.95	1.78	1.73	1.81	1.81	1.81	1.83	2.00	1.76			
175	1.77	1.81	1.87	2.08	2.24	2.05	1.85	1.86	1.78	1.77	1.81	1.80	1.81	1.80	1.87	1.77			
180	1.78	1.79	1.84	1.84	1.86	1.83	1.83	1.83	1.78	1.79	1.81	1.81	1.81	1.80	1.82	1.81			

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Testing Room

Test Date:2023-03-02

 γ Range: 0 - 180DEG

 γ Interval: 1.0DEG

Test System:EVERFINE GO-3000H_V1 SYSTEM V2.0.361

Humidity:25%

Test Distance:11.350m [K=1.0000]

Remarks: