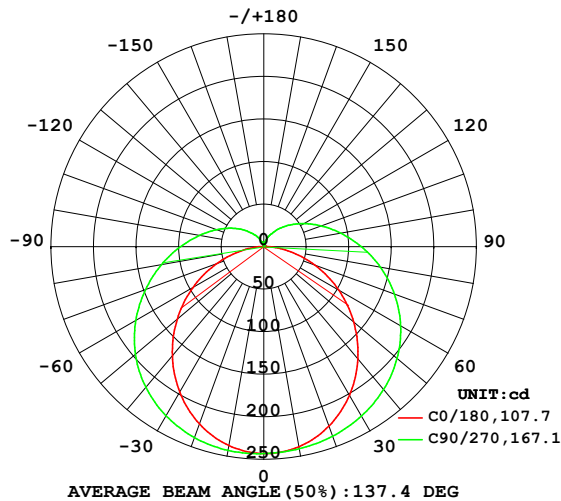


LUMINAIRE PHOTOMETRIC TEST REPORT

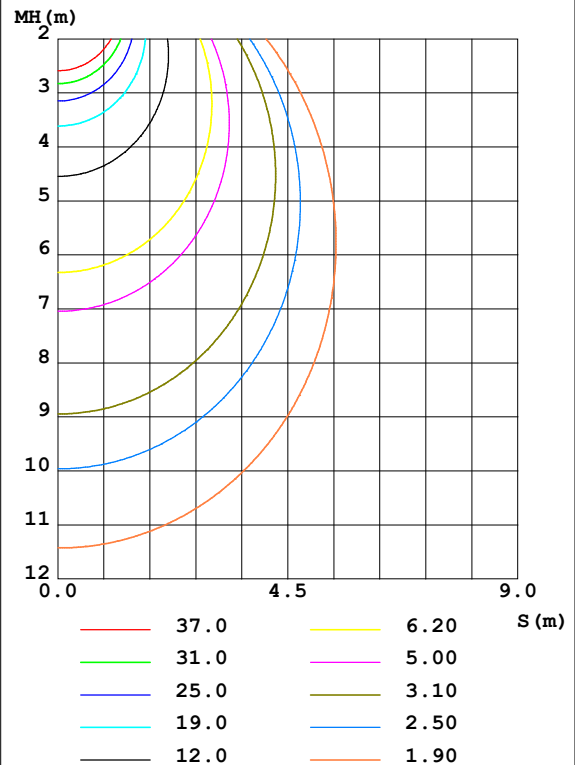
Test:U:230.4V I:0.0792A P:10W PF:0.5548 Freq:49.99Hz Lamp Flux:1050x1 lm		
SGSO SKU: 0028920141	TYPE:	WEIGHT:
SPEC.:0.6m T5 Cabinet,10W,1050lm,105lm/W,3CCT Switch,3000/3500/4000K,Linkable	DIM.: $\varnothing 582 \times 21.5 \text{mm}$	SERIAL No.:
MFR.: TOSPO	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 105 lm/W			
MODEL	0.6m-10w-3000K	I _{max} (cd)	243.6	S/MH (C0/180)	1.21
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, 42.5
NOMINAL FLUX (lm)	1050	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	7.4, 40.9
LAMPS INSIDE	1	η up (%)	16.5	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)		η down (%)	83.5	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	238.7	239.7	241.1	238.8	237.3	240.4	243.1	241.4	0- 10	23.06	23.06	2.09,2.09
20	224.4	230.7	237.1	228.9	221.6	230.8	238.7	232.7	10- 20	66.70	89.77	8.13,8.13
30	201.6	216.3	229.9	213.8	197.5	214.7	229.7	217.6	20- 30	103.1	192.9	17.5,17.5
40	172.0	197.5	219.1	194.4	167.3	193.5	215.8	197.0	30- 40	128.6	321.5	29.1,29.1
50	138.1	175.3	204.5	171.8	132.9	168.7	196.9	172.6	40- 50	141.1	462.6	41.9,41.9
60	101.6	150.9	185.8	147.3	96.31	141.8	173.8	145.7	50- 60	140.4	603.0	54.6,54.6
70	64.18	125.9	163.5	122.3	59.13	114.8	147.9	118.5	60- 70	127.9	730.9	66.2,66.2
80	28.92	101.6	139.2	98.42	24.53	89.69	122.0	92.86	70- 80	107.2	838.0	75.9,75.9
90	4.667	79.75	114.7	76.96	2.751	67.94	97.98	70.52	80- 90	83.38	921.4	83.5,83.5
100	0.7537	61.15	92.01	58.95	0.9663	50.26	76.88	52.23	90-100	62.57	984.0	89.1,89.1
110	0.9273	45.95	71.90	44.27	1.017	36.41	58.86	37.93	100-110	45.76	1030	93.3,93.3
120	1.069	33.92	54.51	32.16	1.160	24.58	43.67	26.87	110-120	31.98	1062	96.2,96.2
130	1.211	24.33	39.73	21.19	1.302	15.50	30.87	18.45	120-130	20.68	1082	98.1,98.1
140	1.354	16.23	27.34	11.54	1.436	8.467	19.66	11.99	130-140	12.00	1094	99.1,99.1
150	1.459	10.30	16.96	6.453	1.542	4.068	11.77	6.691	140-150	6.022	1100	99.7,99.7
160	1.556	5.614	8.679	3.650	1.668	2.021	5.111	3.277	150-160	2.485	1103	99.9,99.9
170	1.650	2.576	2.612	2.341	1.691	1.689	1.710	1.864	160-170	0.7956	1104	100,100
180	1.676	1.740	1.758	1.739	1.691	1.679	1.704	1.716	170-180	0.1783	1104	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 391.36 lm

%lum = 35.5%

%lamp = 35.5%

Conical surface Flux(120deg): 603.01 lm

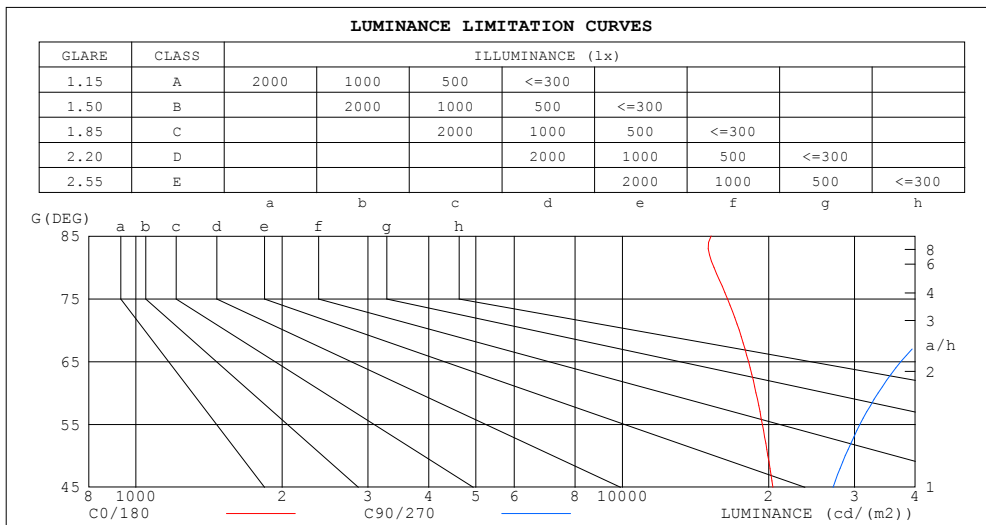
%lum = 54.6%

%lamp = 54.6%

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:

LUMINANCE LIMITATION CURVES



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	15237	131422
80	15439	72379
75	16448	52854
70	17395	43173
65	18168	37405
60	18832	33560
55	19415	30805
50	19916	28738
45	20392	27124

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	.387	.220	.070	.375	.214	.068	.352	.202	.064	.331	.191	.061	.311	.180	.058		
2.0	.335	.184	.056	.324	.178	.055	.303	.169	.052	.284	.159	.050	.266	.151	.048		
3.0	.298	.158	.047	.288	.154	.046	.269	.146	.044	.251	.138	.042	.235	.130	.040		
4.0	.268	.139	.041	.259	.135	.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	.201	.103	.030	.188	.098	.029	.176	.093	.028		
7.0	.206	.102	.029	.199	.099	.028	.186	.094	.027	.174	.089	.026	.163	.085	.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	.316	.316	.316	.270	.270	.270	.185	.185	.185	.106	.106	.106	.034	.034	.034	
1.0	.313	.282	.255	.268	.242	.220	.183	.167	.152	.105	.097	.088	.034	.031	.029	
2.0	.306	.260	.221	.262	.223	.191	.180	.155	.133	.104	.090	.078	.033	.029	.025	
3.0	.298	.243	.199	.256	.210	.172	.176	.146	.121	.101	.085	.071	.033	.028	.023	
4.0	.291	.230	.185	.249	.199	.160	.171	.139	.113	.099	.081	.067	.032	.026	.022	
5.0	.283	.221	.175	.243	.191	.152	.167	.133	.107	.097	.078	.064	.031	.026	.021	
6.0	.275	.213	.168	.237	.184	.146	.163	.129	.103	.095	.076	.061	.031	.025	.020	
7.0	.268	.206	.163	.231	.179	.142	.159	.125	.100	.093	.074	.060	.030	.024	.020	
8.0	.261	.200	.159	.225	.174	.138	.156	.122	.098	.091	.072	.058	.029	.024	.019	
9.0	.255	.196	.156	.220	.170	.136	.152	.119	.096	.089	.071	.057	.029	.023	.019	
10.0	.249	.192	.153	.215	.166	.134	.149	.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	21.6	23.0	22.1	23.5	24.1	24.0	25.4	24.5	25.9	26.4
3H	23.2	24.5	23.7	25.0	25.6	26.7	28.0	27.2	28.5	29.1
4H	23.9	25.1	24.4	25.7	26.3	28.2	29.4	28.7	30.0	30.6
6H	24.4	25.6	25.0	26.2	26.8	29.8	31.0	30.4	31.5	32.2
8H	24.6	25.8	25.2	26.3	27.0	30.7	31.8	31.3	32.4	33.1
12H	24.8	25.9	25.4	26.4	27.1	31.8	32.8	32.3	33.4	34.1
4H 2H	22.9	24.1	23.4	24.6	25.2	24.6	25.8	25.1	26.3	26.9
3H	24.7	25.8	25.3	26.4	27.0	27.5	28.6	28.1	29.2	29.8
4H	25.6	26.6	26.2	27.2	27.9	29.2	30.2	29.8	30.8	31.5
6H	26.3	27.2	27.0	27.9	28.6	31.1	32.0	31.7	32.6	33.3
8H	26.6	27.5	27.3	28.1	28.8	32.1	32.9	32.8	33.6	34.3
12H	26.9	27.6	27.5	28.3	29.1	33.3	34.0	33.9	34.7	35.4
8H 4H	26.7	27.6	27.4	28.2	28.9	29.6	30.4	30.2	31.0	31.8
6H	27.9	28.6	28.6	29.3	30.0	31.7	32.5	32.4	33.1	33.9
8H	28.4	29.0	29.1	29.7	30.5	33.0	33.6	33.7	34.3	35.1
12H	28.9	29.4	29.6	30.1	30.9	34.4	35.0	35.1	35.7	36.5
12H 4H	27.1	27.9	27.8	28.5	29.3	29.6	30.4	30.3	31.0	31.8
6H	28.5	29.1	29.2	29.8	30.6	31.9	32.5	32.6	33.2	34.0
8H	29.2	29.7	29.9	30.5	31.3	33.2	33.8	33.9	34.5	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					+ 0.3 / - 0.4				

CIE Pub.117, 1104 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.3$)

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:

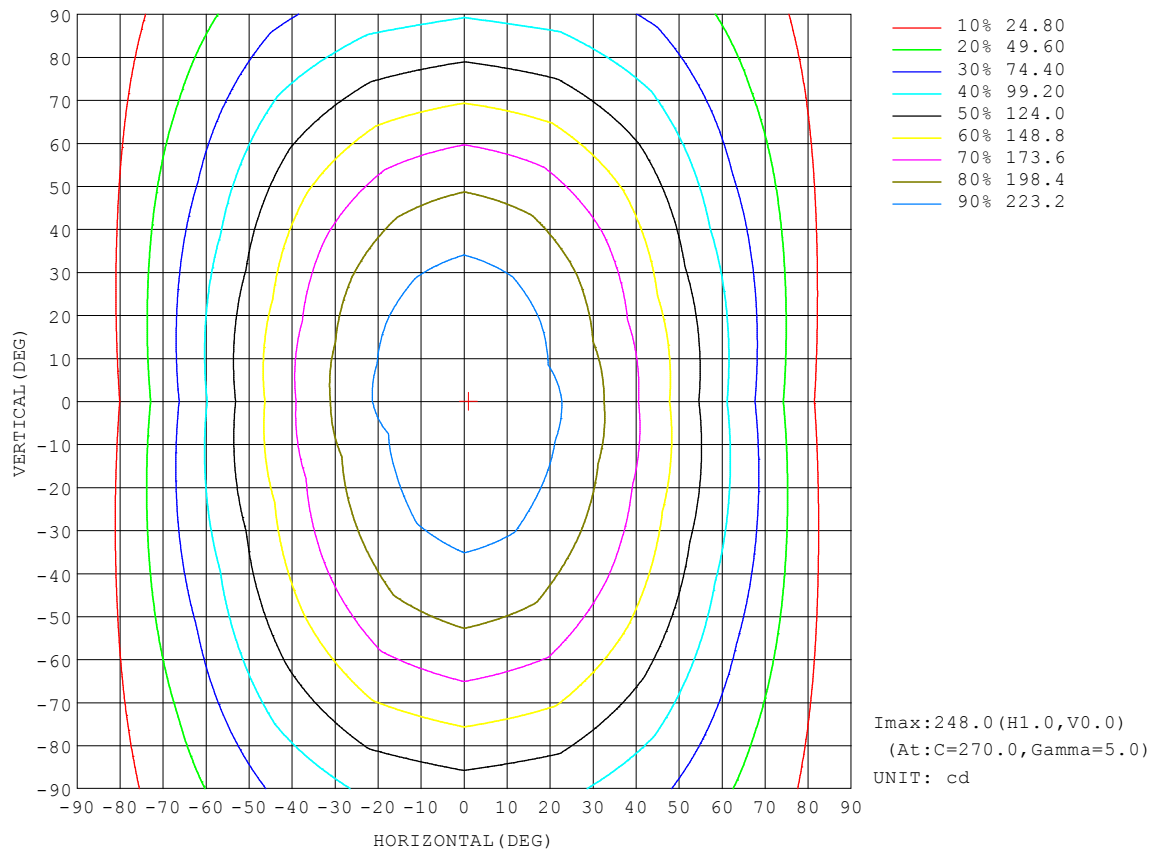
UTILIZATION FACTORS TABLE

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	66	56	48	39
1.50	77	65	56	74	63	55	70	60	53	43
2.00	84	73	65	81	71	64	76	67	61	50
2.50	89	79	71	86	76	69	79	72	66	53
3.00	93	83	76	89	81	74	83	76	70	57
4.00	97	89	83	93	86	80	87	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										
SHRNOM = 1.25										

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:

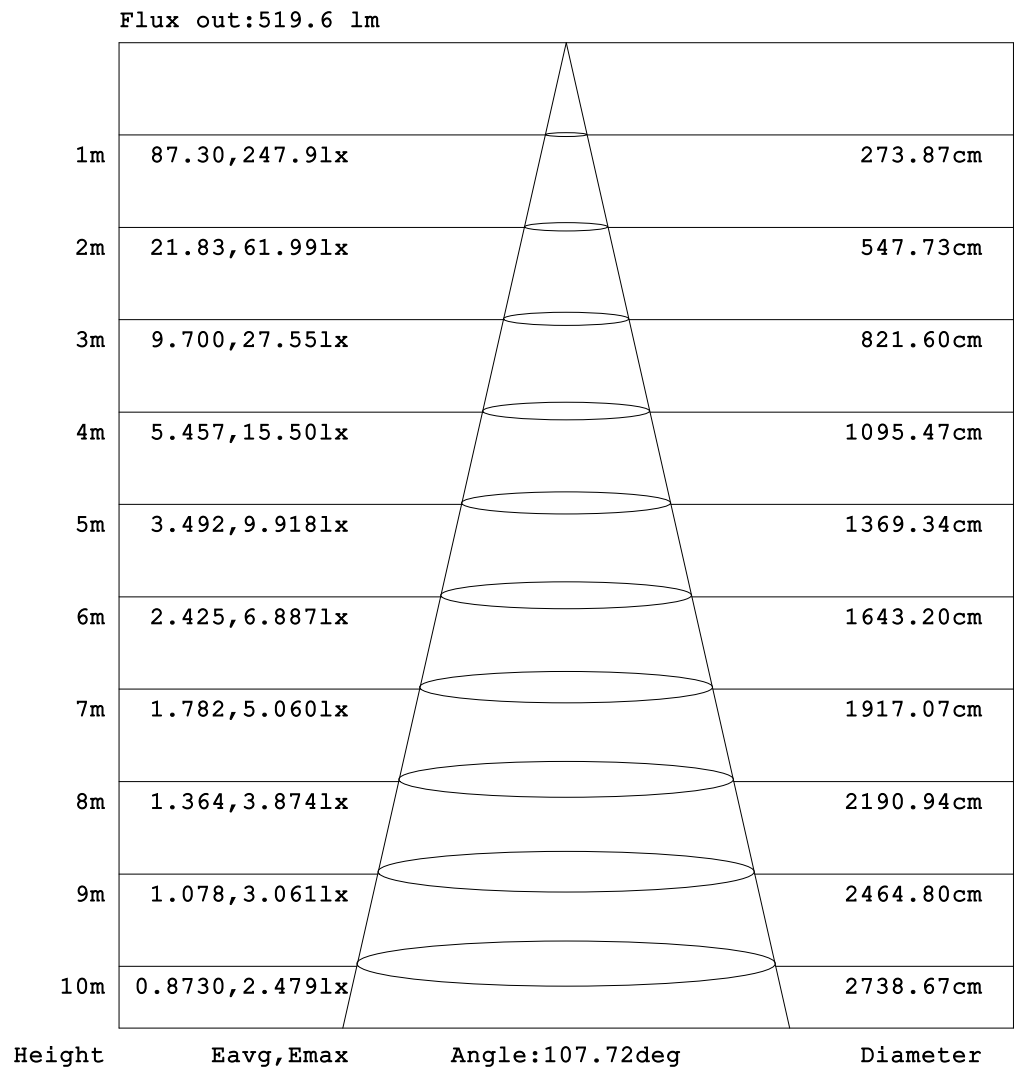
ISOCANDELA DIAGRAM



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

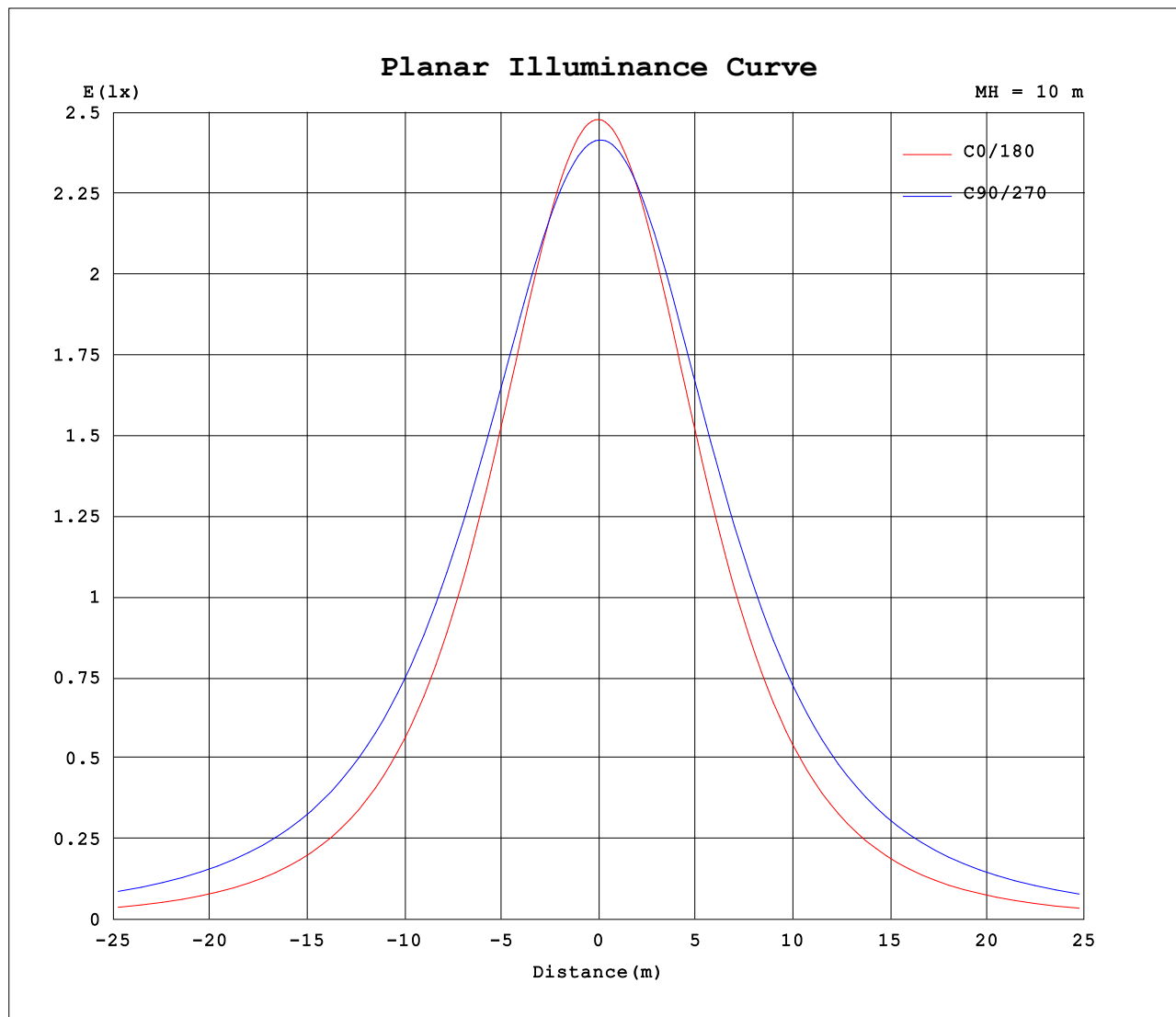


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243			
5	242	242	242	242	242	242	242	241	242	242	243	243	244	243	243	243			
10	239	239	240	241	241	240	239	238	237	238	240	242	243	243	241	240			
15	233	234	236	239	239	238	235	232	231	232	236	240	241	240	238	235			
20	224	226	231	236	237	235	229	224	222	225	231	236	239	237	233	227			
25	214	217	224	232	234	230	222	214	210	215	223	231	235	232	226	218			
30	202	206	216	227	230	225	214	202	198	203	215	225	230	226	218	207			
35	188	194	207	221	225	219	205	190	183	190	205	217	223	219	208	194			
40	172	180	197	214	219	212	194	176	167	176	194	209	216	211	197	180			
45	156	166	187	206	212	204	183	161	150	161	181	199	207	201	185	166			
50	138	151	175	197	205	195	172	146	133	145	169	188	197	190	173	150			
55	120	136	163	188	196	186	160	131	115	129	155	176	186	179	159	134			
60	102	120	151	177	186	175	147	115	96.3	113	142	164	174	166	146	118			
65	82.8	105	138	166	175	164	135	99.6	77.6	97.0	128	151	161	154	132	102			
70	64.2	89.5	126	154	163	152	122	84.7	59.1	81.7	115	138	148	140	118	86.2			
75	45.9	75.1	114	142	151	140	110	70.5	41.2	67.2	102	125	135	128	105	71.4			
80	28.9	61.9	102	130	139	128	98.4	57.6	24.5	54.2	89.7	113	122	115	92.9	57.8			
85	14.3	50.3	90.3	118	127	117	87.3	46.5	10.7	42.8	78.4	101	110	103	81.2	46.0			
90	4.67	40.6	79.8	107	115	105	77.0	37.3	2.75	33.5	67.9	89.6	98.0	91.4	70.5	36.2			
95	1.53	33.0	70.0	95.5	103	94.0	67.5	30.1	1.46	26.3	58.6	79.2	87.1	80.7	60.9	28.5			
100	0.75	27.0	61.2	84.9	92.0	83.6	59.0	24.6	0.97	20.8	50.3	69.5	76.9	70.9	52.2	22.7			
105	0.79	22.6	53.2	75.1	81.6	73.9	51.2	20.5	0.97	16.7	42.9	60.7	67.5	61.9	44.7	18.3			
110	0.93	19.0	45.9	65.9	71.9	64.9	44.3	17.3	1.02	13.6	36.4	52.1	58.9	53.7	37.9	14.9			
115	1.00	16.2	39.6	57.4	62.9	56.5	38.1	14.7	1.08	11.2	30.7	44.9	51.0	46.1	32.0	12.3			
120	1.07	13.3	33.9	49.6	54.5	48.9	32.2	11.9	1.16	8.96	24.6	38.1	43.7	39.3	26.9	10.2			
125	1.16	11.5	28.9	42.5	46.8	41.9	26.0	9.57	1.23	6.36	19.6	31.2	37.0	33.1	22.3	8.26			
130	1.21	9.86	24.3	36.0	39.7	35.5	21.2	7.47	1.30	4.55	15.5	25.4	30.9	27.6	18.4	6.42			
135	1.29	7.78	19.7	30.1	33.2	28.2	15.2	5.47	1.37	3.46	11.5	20.5	24.3	22.6	15.0	5.25			
140	1.35	6.47	16.2	24.6	27.3	22.7	11.5	4.45	1.44	2.73	8.47	15.5	19.7	18.1	12.0	3.77			
145	1.41	4.79	13.4	19.3	21.4	15.6	8.87	3.67	1.50	2.05	5.68	11.1	15.7	14.1	8.73	3.05			
150	1.46	4.06	10.3	15.5	17.0	11.2	6.45	3.14	1.54	1.54	4.07	7.16	11.8	10.2	6.69	2.27			
155	1.53	3.37	7.52	11.7	13.0	7.71	4.65	2.63	1.62	1.54	3.02	4.62	5.86	7.40	4.72	1.76			
160	1.56	2.45	5.61	7.98	8.68	4.86	3.65	2.38	1.67	1.57	2.02	3.13	5.11	4.84	3.28	1.66			
165	1.62	1.89	4.08	5.31	5.89	3.39	2.82	2.16	1.69	1.59	1.68	1.84	2.36	2.79	1.97	1.66			
170	1.65	1.76	2.58	3.51	2.61	2.46	2.34	1.90	1.69	1.64	1.69	1.78	1.71	1.72	1.86	1.67			
175	1.66	1.71	1.81	2.03	2.16	2.05	1.79	1.78	1.69	1.65	1.68	1.72	1.71	1.71	1.76	1.69			
180	1.68	1.69	1.74	1.74	1.76	1.74	1.74	1.74	1.69	1.67	1.68	1.70	1.70	1.71	1.72	1.71			

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: