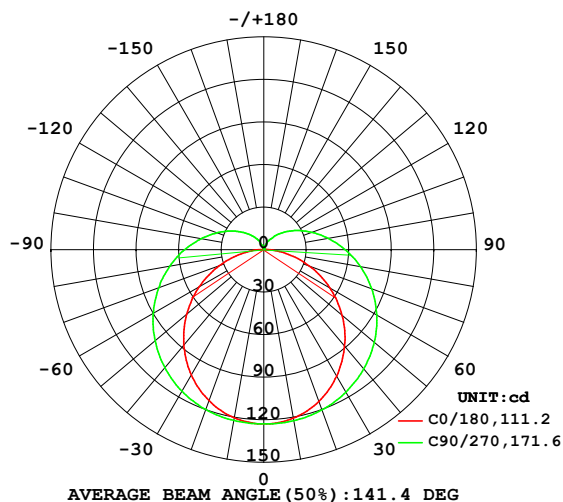


LUMINAIRE PHOTOMETRIC TEST REPORT

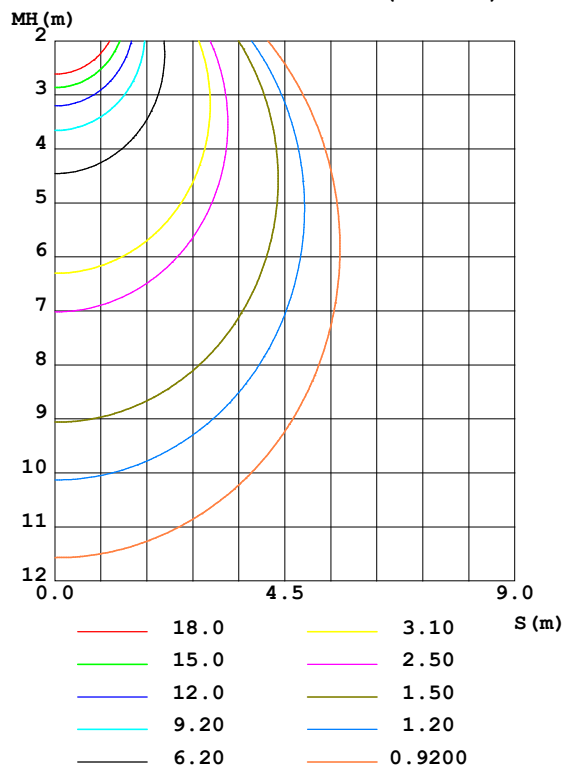
Test:U:230.4V I:0.0398A P:5W PF:0.5527 Freq:49.99Hz Lamp Flux:550x1 lm		
SGSO SKU: 0028920142	TYPE:	WEIGHT:
SPEC.:0.3m T5 Cabinet,5W,550lm,110lm/W,3CCT Switch,3000/3500/4000K,Linkable	DIM.: $\varnothing 322 \times 21.5 \text{mm}$	SERIAL No.:
MFR.: TOSPO	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 110 lm/W			
MODEL	0.3m-5w-4000K	I _{max} (cd)	122.9	S/MH(C0/180)	1.24
NOMINAL POWER(W)	5	LOR(%)	100.0	S/MH(C90/270)	1.41
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	550	η UP,DN(C0-180)	8.8,41.6
NOMINAL FLUX(lm)	550	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	8.5,41.0
LAMPS INSIDE	1	η up(%)	17.3	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)		η down(%)	82.7	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	120.7	121.6	122.5	121.4	120.4	121.3	122.3	121.5	0- 10	11.66	11.66	2.03,2.03
20	113.9	117.3	120.2	116.9	113.3	116.7	119.9	117.2	10- 20	33.79	45.45	7.91,7.91
30	102.9	110.1	116.0	109.6	102.2	109.1	115.4	109.8	20- 30	52.38	97.83	17,17
40	88.77	100.4	109.7	99.75	87.77	99.06	108.6	99.88	30- 40	65.53	163.4	28.4,28.4
50	72.13	88.82	101.7	88.16	71.05	87.22	100.1	88.21	40- 50	72.20	235.6	41,41
60	53.78	76.23	92.03	75.53	52.66	74.37	90.02	75.44	50- 60	72.24	307.8	53.6,53.6
70	34.55	63.30	81.00	62.64	33.39	61.38	78.91	62.47	60- 70	66.39	374.2	65.1,65.1
80	16.03	50.93	69.27	50.33	14.92	49.06	67.30	50.09	70- 80	56.26	430.4	74.9,74.9
90	2.980	39.83	57.48	39.33	2.595	38.09	55.82	39.03	80- 90	44.35	474.8	82.7,82.7
100	0.4407	30.39	46.27	30.01	0.4761	28.90	44.95	29.70	90-100	33.64	508.4	88.5,88.5
110	0.4565	22.64	36.08	22.33	0.5331	21.57	35.07	22.22	100-110	24.85	533.3	92.8,92.8
120	0.5887	16.56	27.15	16.30	0.5956	15.71	26.39	16.22	110-120	17.54	550.8	95.9,95.9
130	0.6142	11.77	19.42	11.52	0.6551	11.07	19.01	11.50	120-130	11.54	562.4	97.9,97.9
140	0.6980	7.605	13.11	7.130	0.7313	7.085	12.85	7.749	130-140	6.824	569.2	99.1,99.1
150	0.7309	4.381	7.847	3.374	0.7920	2.976	7.896	4.065	140-150	3.427	572.6	99.7,99.7
160	0.8068	2.082	3.398	1.664	0.8163	1.448	2.824	1.700	150-160	1.303	573.9	99.9,99.9
170	0.8183	1.144	1.084	1.015	0.8199	0.9818	1.076	0.8698	160-170	0.3702	574.3	100,100
180	0.8301	0.8921	0.9008	0.8850	0.8224	0.8235	0.8702	0.8697	170-180	0.0861	574.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 199.05 lm

%lum = 34.7%

%lamp = 34.7%

Conical surface Flux(120deg): 307.8 lm

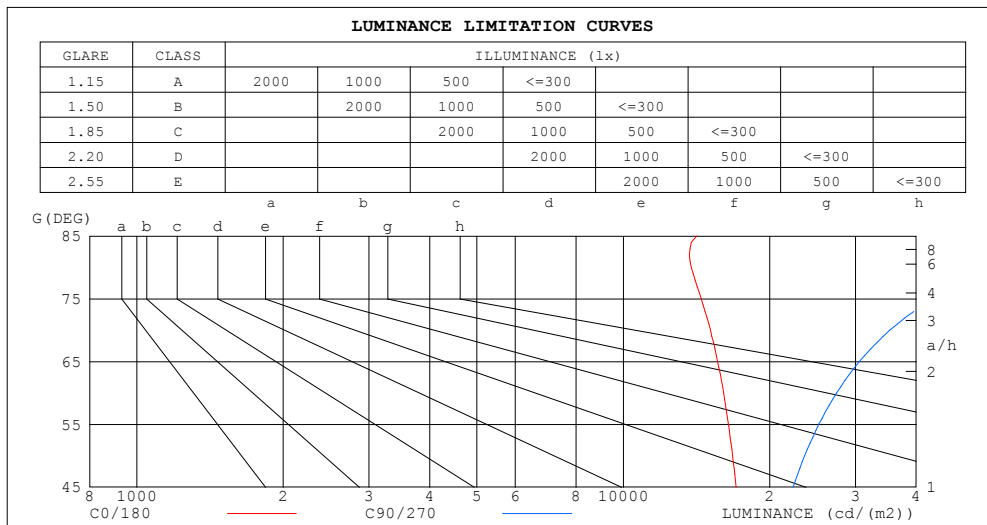
%lum = 53.6%

%lamp = 53.6%

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	14168	108350
80	13799	59492
75	14460	43327
70	15102	35320
65	15632	30580
60	16078	27448
55	16451	25229
50	16776	23602
45	17070	22349

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	.390	.222	.070	.377	.215	.068	.354	.203	.065	.332	.192	.061	.312	.181	.058		
2.0	.337	.184	.057	.325	.179	.055	.304	.169	.053	.284	.160	.050	.266	.151	.048		
3.0	.299	.159	.048	.288	.154	.046	.269	.146	.044	.251	.138	.042	.235	.130	.040		
4.0	.268	.139	.041	.259	.136	.040	.242	.128	.038	.226	.121	.037	.211	.114	.035		
5.0	.244	.124	.036	.235	.121	.035	.220	.114	.034	.205	.108	.032	.191	.102	.031		
6.0	.223	.112	.032	.216	.109	.031	.201	.103	.030	.188	.098	.029	.175	.092	.027		
7.0	.206	.102	.029	.199	.099	.028	.186	.094	.027	.173	.089	.026	.162	.084	.025		
8.0	.191	.093	.026	.184	.091	.026	.172	.086	.025	.161	.082	.024	.150	.077	.022		
9.0	.178	.086	.024	.172	.084	.024	.161	.079	.023	.150	.075	.022	.140	.071	.021		
10.0	.166	.080	.022	.161	.078	.022	.151	.074	.021	.141	.070	.020	.132	.066	.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	.323	.323	.323	.276	.276	.276	.188	.188	.188	.108	.108	.108	.035	.035	.035	
1.0	.319	.289	.261	.273	.248	.225	.187	.170	.155	.107	.099	.090	.034	.032	.029	
2.0	.312	.266	.227	.267	.229	.196	.183	.158	.137	.106	.092	.080	.034	.030	.026	
3.0	.305	.249	.205	.261	.215	.178	.179	.149	.125	.104	.087	.074	.033	.028	.024	
4.0	.297	.237	.191	.255	.205	.166	.175	.143	.117	.101	.084	.069	.033	.027	.023	
5.0	.289	.227	.181	.248	.196	.158	.171	.137	.111	.099	.081	.066	.032	.026	.022	
6.0	.282	.219	.174	.242	.190	.152	.167	.133	.107	.097	.078	.064	.031	.026	.021	
7.0	.275	.212	.169	.236	.184	.147	.163	.129	.104	.095	.076	.062	.031	.025	.021	
8.0	.268	.207	.165	.231	.179	.144	.160	.126	.102	.093	.074	.061	.030	.024	.020	
9.0	.262	.202	.162	.225	.175	.141	.156	.123	.100	.091	.073	.060	.029	.024	.020	
10.0	.256	.198	.159	.220	.172	.139	.153	.121	.099	.089	.071	.059	.029	.023	.020	

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	23.2	24.6	23.7	25.1	25.7	25.4	26.8	25.9	27.3	27.8
3H	24.9	26.1	25.4	26.7	27.3	28.1	29.4	28.6	29.9	30.5
4H	25.6	26.8	26.1	27.3	27.9	29.6	30.8	30.2	31.4	32.0
6H	26.1	27.3	26.7	27.8	28.5	31.2	32.4	31.8	33.0	33.6
8H	26.3	27.4	26.9	28.0	28.7	32.1	33.3	32.7	33.8	34.5
12H	26.5	27.6	27.1	28.1	28.8	33.2	34.3	33.8	34.8	35.5
4H 2H	24.4	25.6	25.0	26.2	26.8	26.0	27.2	26.5	27.7	28.4
3H	26.3	27.4	26.9	28.0	28.6	28.9	30.0	29.5	30.6	31.3
4H	27.2	28.2	27.8	28.8	29.5	30.6	31.6	31.2	32.2	32.9
6H	28.0	28.8	28.6	29.5	30.2	32.5	33.4	33.1	34.0	34.7
8H	28.3	29.1	28.9	29.7	30.5	33.5	34.3	34.2	35.0	35.7
12H	28.5	29.3	29.2	29.9	30.7	34.7	35.5	35.4	36.1	36.9
8H 4H	28.3	29.1	28.9	29.8	30.5	31.0	31.8	31.6	32.5	33.2
6H	29.4	30.1	30.1	30.8	31.6	33.1	33.8	33.8	34.5	35.3
8H	30.0	30.6	30.7	31.3	32.1	34.4	35.0	35.1	35.7	36.5
12H	30.4	31.0	31.1	31.7	32.5	35.8	36.4	36.6	37.1	37.9
12H 4H	28.6	29.4	29.3	30.1	30.8	31.0	31.8	31.7	32.4	33.2
6H	30.0	30.6	30.7	31.3	32.1	33.3	33.9	34.0	34.6	35.4
8H	30.7	31.3	31.4	32.0	32.8	34.6	35.2	35.4	35.9	36.7
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, 574.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.9)

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:

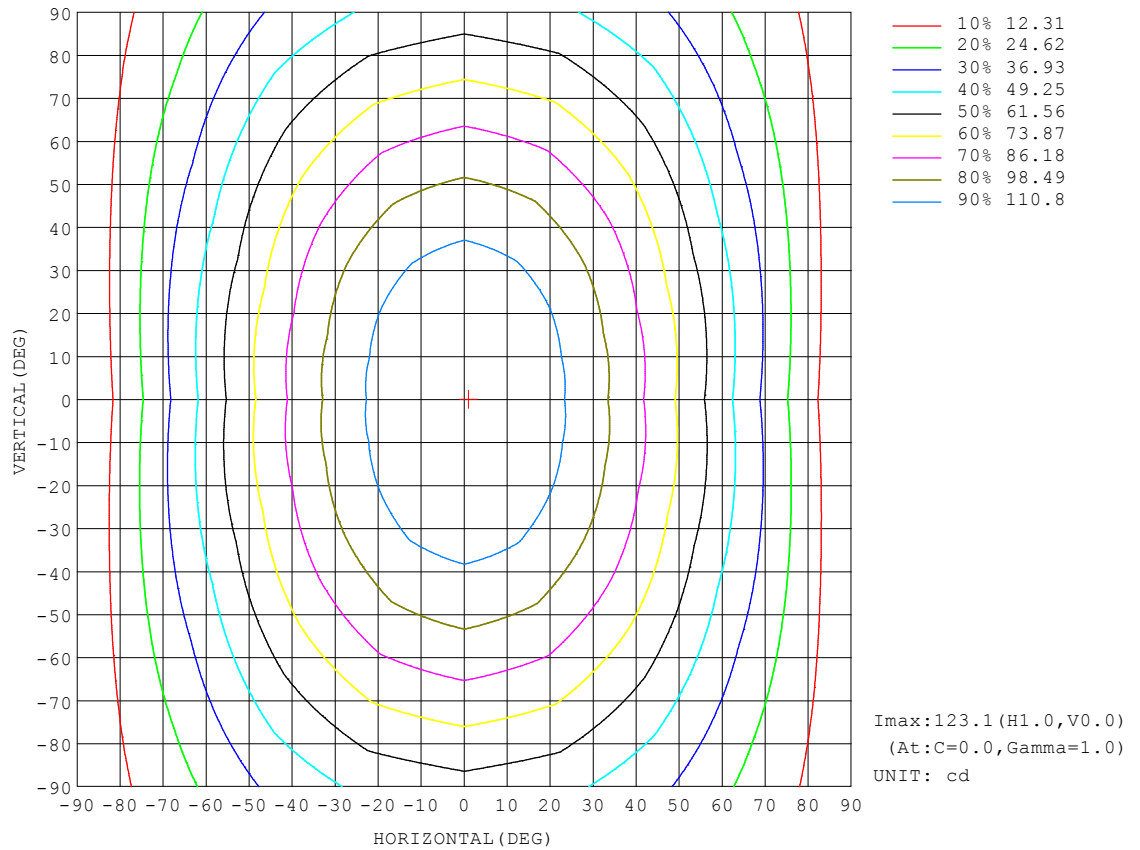
UTILIZATION FACTORS TABLE

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	35	28	47	35	28	45	34	27	20
0.80	57	44	36	55	43	35	52	42	34	27
1.00	64	51	43	63	50	42	59	51	41	33
1.25	71	59	50	69	57	49	65	55	48	38
1.50	77	64	56	74	63	55	69	60	53	42
2.00	84	73	64	81	71	63	75	67	60	49
2.50	88	78	70	85	76	68	79	71	65	52
3.00	92	83	75	89	80	73	82	75	69	56
4.00	97	89	82	93	86	80	86	80	75	61
5.00	100	93	87	96	90	84	88	83	79	64
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

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:

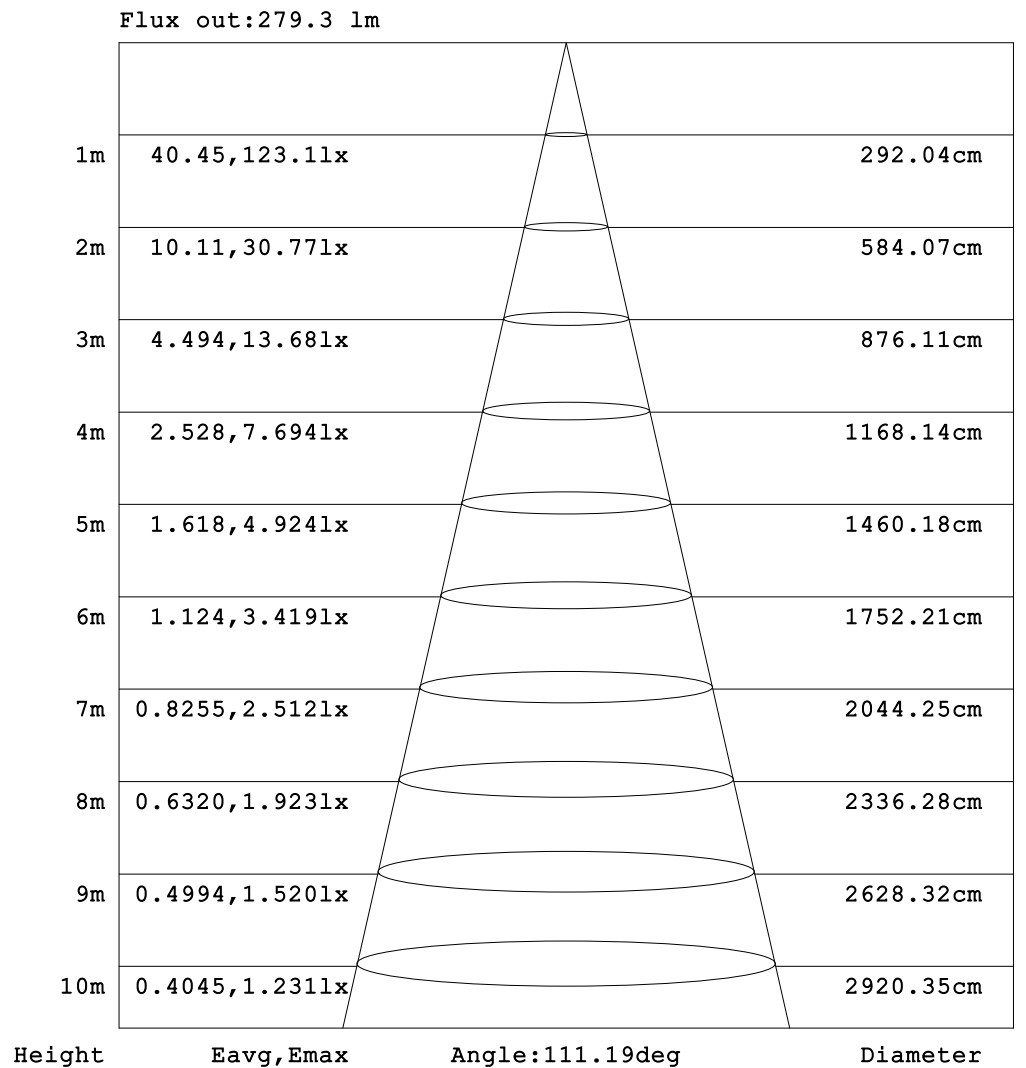
ISOCANDELA DIAGRAM



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

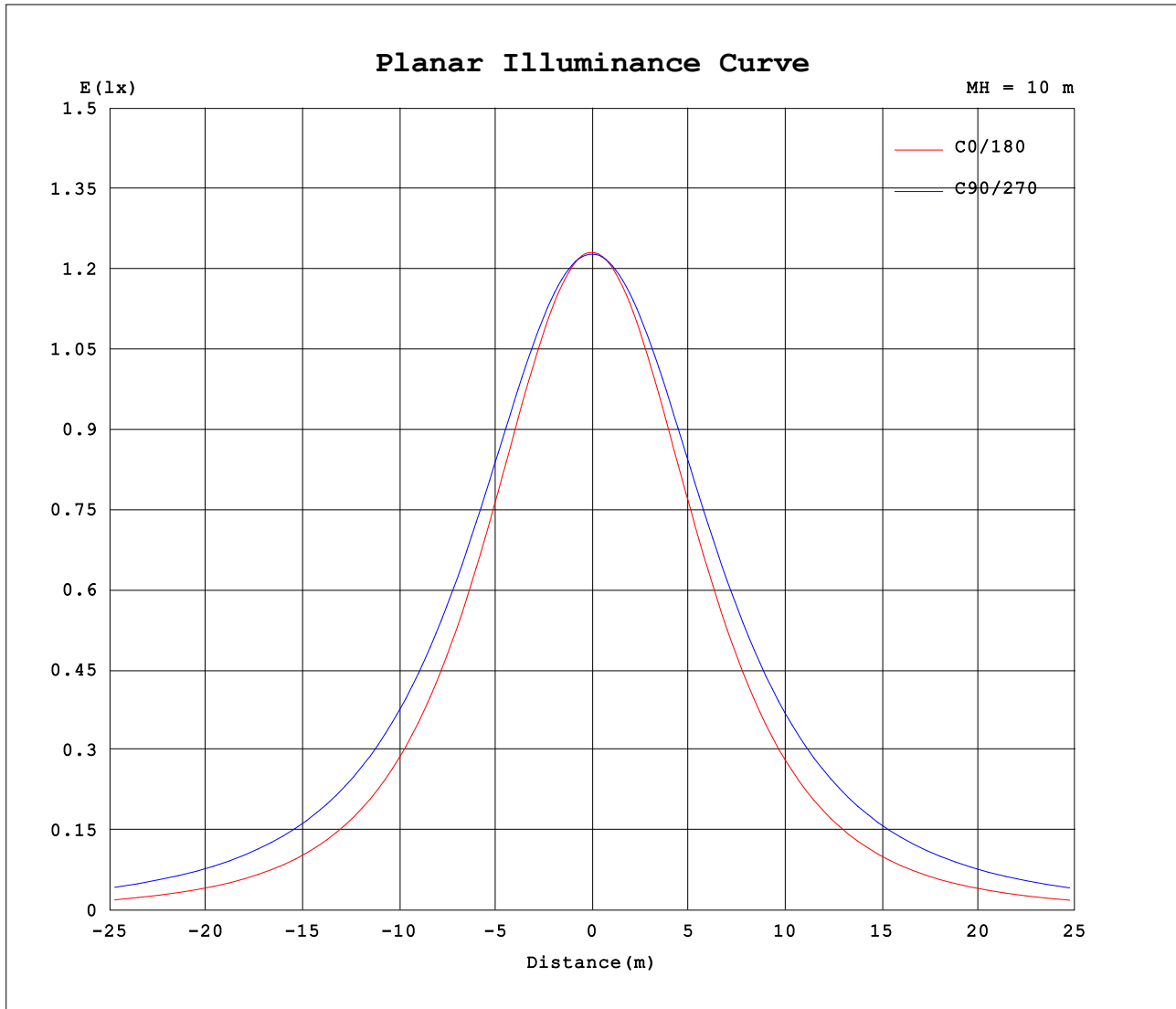


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123			
5	122	122	123	123	123	123	123	122	122	122	122	123	123	123	123	122			
10	121	121	122	122	122	122	121	121	120	121	121	122	122	122	122	121			
15	118	119	120	121	122	121	120	118	117	118	119	121	121	121	120	118			
20	114	115	117	119	120	119	117	114	113	114	117	119	120	119	117	115			
25	109	111	114	117	118	117	114	110	108	110	113	116	118	117	114	110			
30	103	105	110	114	116	114	110	105	102	104	109	113	115	114	110	105			
35	96.2	99.5	105	111	113	111	105	98.6	95.4	98.1	104	110	112	110	105	99.1			
40	88.8	92.9	100	107	110	107	99.7	92.0	87.8	91.3	99.1	106	109	106	99.9	92.4			
45	80.7	85.8	94.8	103	106	103	94.1	84.8	79.7	84.1	93.3	101	105	102	94.2	85.2			
50	72.1	78.1	88.8	98.3	102	97.9	88.2	77.1	71.0	76.4	87.2	96.3	100	96.8	88.2	77.7			
55	63.1	70.3	82.6	93.2	97.0	92.9	81.9	69.2	62.0	68.5	80.8	91.0	95.2	91.6	81.9	69.9			
60	53.8	62.3	76.2	87.9	92.0	87.5	75.5	61.2	52.7	60.4	74.4	85.5	90.0	86.1	75.4	61.8			
65	44.2	54.2	69.7	82.3	86.7	81.9	69.1	53.2	43.1	52.3	67.9	79.8	84.6	80.4	68.9	53.8			
70	34.6	46.3	63.3	76.5	81.0	76.1	62.6	45.3	33.4	44.4	61.4	73.9	78.9	74.6	62.5	45.9			
75	25.0	38.8	57.0	70.6	75.2	70.3	56.4	37.8	23.9	36.8	55.1	68.1	73.1	68.7	56.2	38.3			
80	16.0	31.8	50.9	64.7	69.3	64.4	50.3	30.9	14.9	29.9	49.1	62.3	67.3	62.9	50.1	31.3			
85	8.26	25.6	45.2	58.8	63.3	58.5	44.6	24.9	7.47	23.9	43.4	56.6	61.5	57.1	44.4	25.2			
90	2.98	20.5	39.8	53.1	57.5	52.8	39.3	19.9	2.60	19.0	38.1	51.0	55.8	51.6	39.0	20.2			
95	0.45	16.5	34.9	47.6	51.8	47.3	34.4	16.0	0.77	15.1	33.3	45.7	50.3	46.2	34.1	16.1			
100	0.44	13.5	30.4	42.4	46.3	42.1	30.0	13.1	0.48	12.3	28.9	40.7	44.9	41.1	29.7	13.1			
105	0.43	11.1	26.3	37.4	41.0	37.2	26.0	10.8	0.50	10.2	25.1	35.9	39.9	36.3	25.8	10.8			
110	0.46	9.36	22.6	32.8	36.1	32.6	22.3	9.08	0.53	8.56	21.6	31.4	35.1	31.8	22.2	9.12			
115	0.55	7.98	19.4	28.5	31.5	28.3	19.1	7.72	0.56	7.29	18.5	27.3	30.6	27.7	19.0	7.75			
120	0.59	6.45	16.6	24.5	27.2	24.4	16.3	6.25	0.60	6.24	15.7	23.5	26.4	23.8	16.2	6.56			
125	0.60	5.58	14.0	20.9	23.2	20.8	13.8	5.45	0.62	4.92	13.3	19.9	22.6	20.2	13.7	5.47			
130	0.61	4.69	11.8	17.6	19.4	17.5	11.5	4.51	0.66	3.56	11.1	16.7	19.0	17.0	11.5	3.92			
135	0.68	3.40	9.18	14.6	16.1	14.5	8.93	3.17	0.69	2.69	8.93	13.9	15.8	14.1	9.51	3.12			
140	0.70	2.71	7.60	11.7	13.1	11.5	7.13	2.45	0.73	1.98	7.09	11.2	12.9	11.5	7.75	2.15			
145	0.71	1.89	6.22	8.92	9.86	8.81	5.34	1.84	0.75	1.55	4.45	8.50	10.2	9.15	5.39	1.60			
150	0.73	1.48	4.38	7.13	7.85	6.60	3.37	1.38	0.79	0.86	2.98	6.01	7.90	6.67	4.06	1.25			
155	0.75	1.26	2.99	4.97	5.84	4.25	2.27	1.17	0.81	0.84	2.01	3.42	4.48	4.56	2.55	0.83			
160	0.81	1.07	2.08	3.06	3.40	2.32	1.66	1.03	0.82	0.83	1.45	2.00	2.82	2.68	1.70	0.82			
165	0.82	0.95	1.42	1.78	2.10	1.41	1.19	0.93	0.82	0.82	1.09	1.41	1.34	1.71	0.86	0.82			
170	0.82	0.90	1.14	1.18	1.08	0.98	1.01	0.91	0.82	0.83	0.98	0.88	1.08	0.88	0.87	0.82			
175	0.82	0.85	0.89	0.96	0.96	0.89	0.89	0.89	0.82	0.82	0.87	0.87	0.93	0.87	0.87	0.82			
180	0.83	0.83	0.89	0.89	0.90	0.89	0.89	0.88	0.82	0.82	0.82	0.87	0.87	0.87	0.87	0.82			

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: