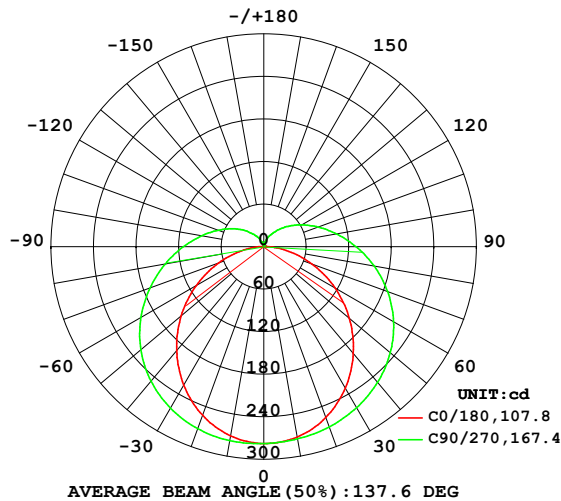


LUMINAIRE PHOTOMETRIC TEST REPORT

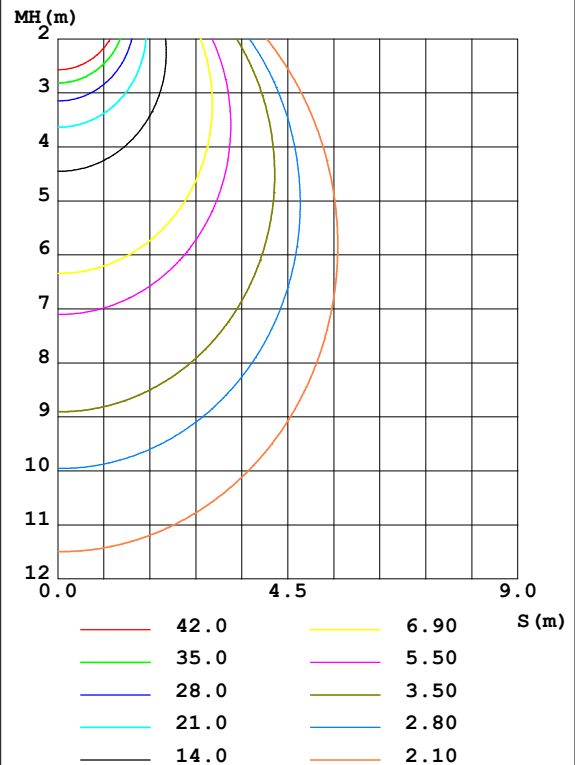
Test:U:230.4V I:0.0768A P:10W PF:0.5512 Freq:50.00Hz Lamp Flux:1100x1 lm		
SGSO SKU: 0028920141	TYPE:	WEIGHT:
SPEC.:0.6m T5 Cabinet,10W,1100lm,110lm/W,3CCT Switch,3000/3500/4000K,Linkable	DIM.: $\varnothing 582 \times 21.5 \text{mm}$	SERIAL No.:
MFR.: TOSPO	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 110 lm/W			
MODEL	0.6m-10w-3500K	I _{max} (cd)	278.2	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)	1100	η UP,DN(C0-180)	9.0,42.3
NOMINAL FLUX(lm)	1100	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	7.5,41.1
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	272.6	273.6	275.2	272.6	270.9	274.6	277.7	275.8	0- 10	26.34	26.34	2.08,2.08
20	256.3	263.2	270.5	261.3	253.0	263.8	273.1	266.1	10- 20	76.19	102.5	8.11,8.11
30	230.2	246.7	262.1	244.1	225.6	245.8	263.1	249.0	20- 30	117.9	220.4	17.4,17.4
40	196.5	225.0	249.8	221.9	191.2	221.8	247.6	225.7	30- 40	147.1	367.5	29.1,29.1
50	157.6	199.6	233.0	196.2	152.1	193.7	226.3	197.9	40- 50	161.5	529.0	41.8,41.8
60	115.7	171.8	211.5	168.3	110.4	163.1	200.1	167.5	50- 60	160.8	689.7	54.5,54.5
70	72.86	143.0	185.9	139.7	67.93	132.3	170.7	136.4	60- 70	146.6	836.3	66.1,66.1
80	32.39	115.2	158.1	112.3	28.51	103.6	141.1	107.1	70- 80	123.0	959.3	75.8,75.8
90	4.797	90.24	130.2	87.80	3.454	78.68	113.5	81.44	80- 90	95.76	1055	83.4,83.4
100	0.9942	69.03	104.4	67.13	1.038	58.33	89.23	60.53	90-100	71.92	1127	89.1,89.1
110	1.053	51.77	81.44	50.35	1.137	42.41	68.44	44.06	100-110	52.60	1180	93.3,93.3
120	1.243	38.04	61.65	36.64	1.291	28.83	50.84	31.32	110-120	36.77	1216	96.2,96.2
130	1.427	27.16	44.89	24.14	1.458	18.31	36.09	21.51	120-130	23.79	1240	98,98
140	1.557	18.07	30.74	13.05	1.619	10.04	23.21	14.12	130-140	13.80	1254	99.1,99.1
150	1.679	11.30	19.02	7.211	1.756	4.841	13.95	7.947	140-150	6.923	1261	99.7,99.7
160	1.789	6.211	9.736	4.099	1.893	2.725	6.021	3.985	150-160	2.842	1264	99.9,99.9
170	1.904	2.875	2.899	2.634	1.937	1.917	2.363	2.173	160-170	0.9097	1265	100,100
180	1.931	1.988	2.002	1.983	1.931	1.919	1.941	1.945	170-180	0.2034	1265	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 447.39 lm

%lum = 35.4%

%lamp = 35.4%

Conical surface Flux(120deg): 689.74 lm

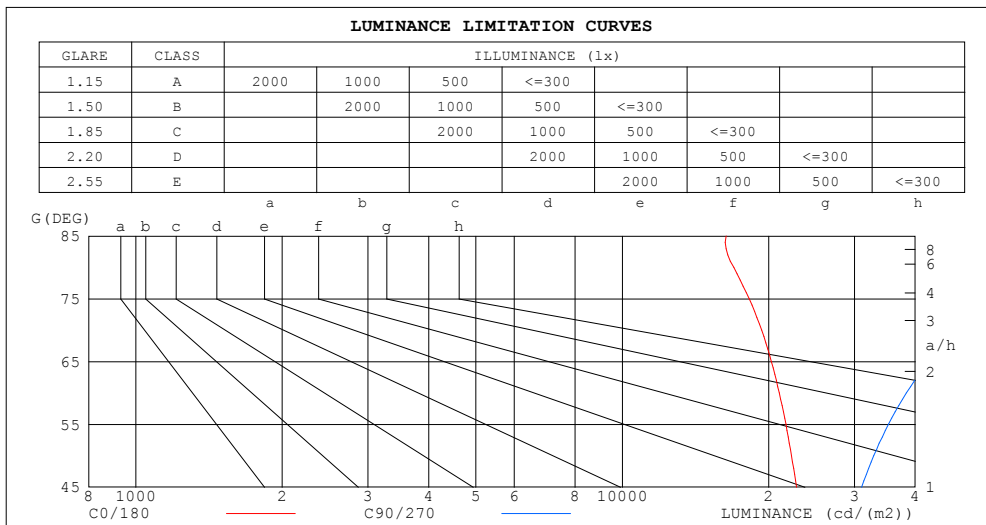
%lum = 54.5%

%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	16354	149899
80	16946	82605
75	18241	60355
70	19353	49323
65	20250	42742
60	21029	38371
55	21691	35235
50	22279	32884
45	22813	31050

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	.303	.169	.052	.284	.159	.050	.267	.151	.048	
3.0	.298	.158	.047	.288	.154	.046	.269	.146	.044	.252	.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	.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	.105	.097	.088	.034	.031	.029	
2.0	.306	.260	.221	.262	.224	.191	.180	.155	.133	.104	.090	.078	.033	.029	.025	
3.0	.299	.243	.199	.256	.210	.173	.176	.146	.121	.102	.085	.071	.033	.028	.023	
4.0	.291	.231	.185	.250	.200	.161	.172	.139	.113	.099	.081	.067	.032	.027	.022	
5.0	.283	.221	.175	.243	.191	.152	.168	.134	.108	.097	.078	.064	.031	.026	.021	
6.0	.276	.213	.168	.237	.185	.146	.164	.129	.104	.095	.076	.062	.031	.025	.020	
7.0	.269	.207	.163	.231	.179	.142	.160	.125	.101	.093	.074	.060	.030	.024	.020	
8.0	.262	.201	.159	.225	.174	.139	.156	.122	.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	.153	.215	.167	.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	21.5	22.9	22.0	23.4	23.9	24.0	25.4	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	24.3	25.4	24.8	26.0	26.6	29.8	31.0	30.4	31.5	32.1
8H	24.5	25.6	25.0	26.1	26.8	30.7	31.8	31.3	32.4	33.0
12H	24.6	25.7	25.2	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	25.1	26.3	26.9
3H	24.6	25.7	25.2	26.3	26.9	27.5	28.6	28.1	29.1	29.8
4H	25.5	26.5	26.1	27.1	27.7	29.2	30.2	29.8	30.8	31.5
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	27.5	27.4	28.1	28.9	33.2	34.0	33.9	34.7	35.4
8H 4H	26.6	27.5	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	29.6	30.4	32.9	33.6	33.6	34.3	35.1
12H	28.7	29.2	29.4	29.9	30.8	34.4	34.9	35.1	35.6	36.5
12H 4H	27.0	27.8	27.7	28.4	29.2	29.6	30.3	30.2	31.0	31.7
6H	28.4	29.0	29.0	29.7	30.5	31.8	32.5	32.5	33.1	33.9
8H	29.1	29.6	29.8	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, 1265 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.8$)

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:

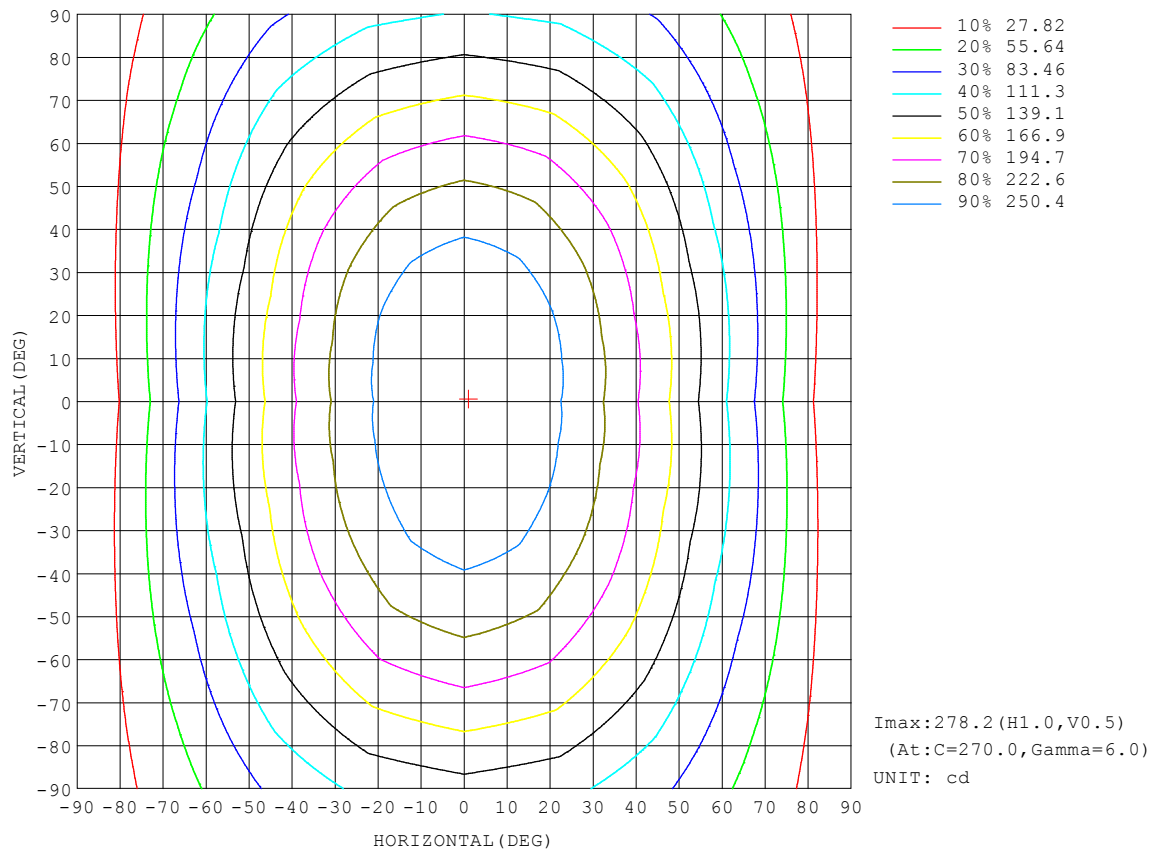
UTILIZATION FACTORS TABLE

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										
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:

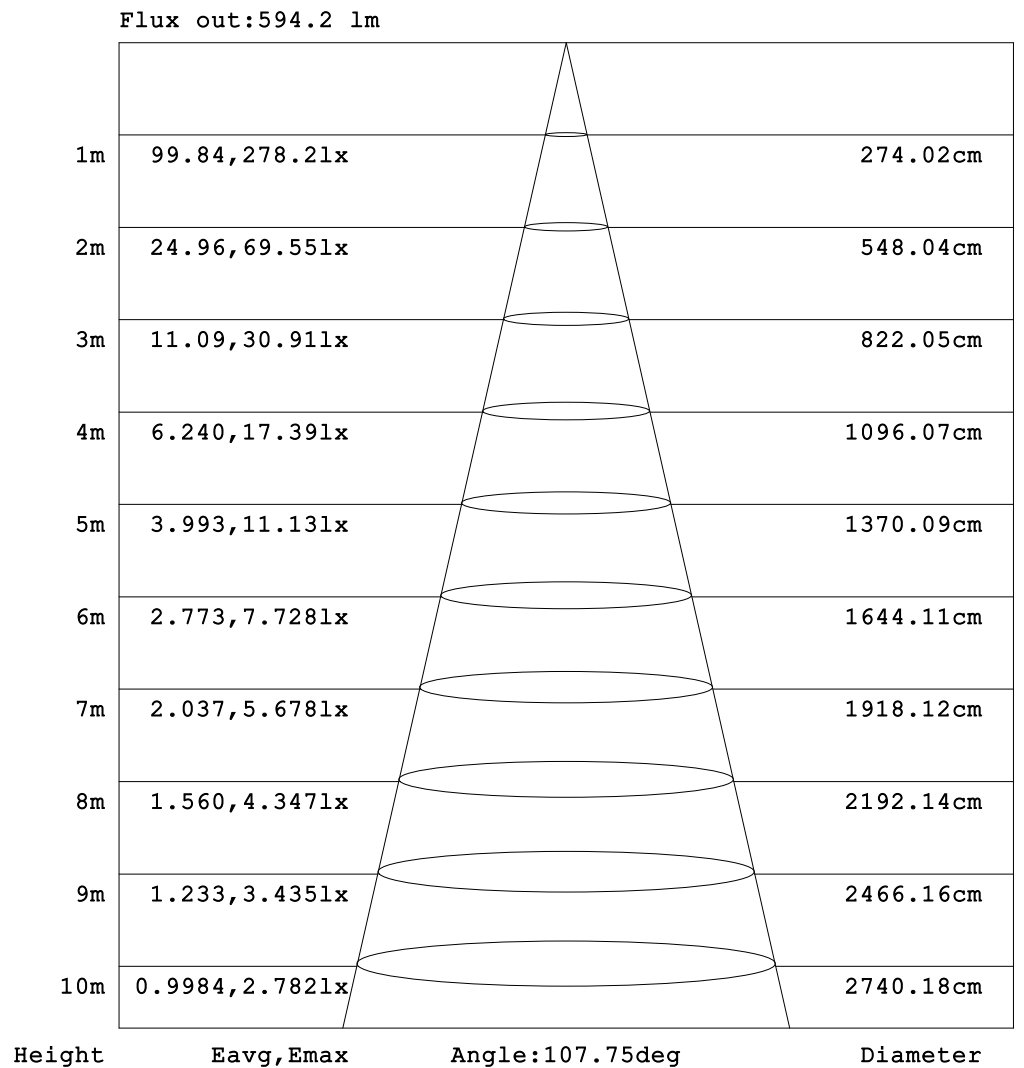
ISOCANDELA DIAGRAM



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

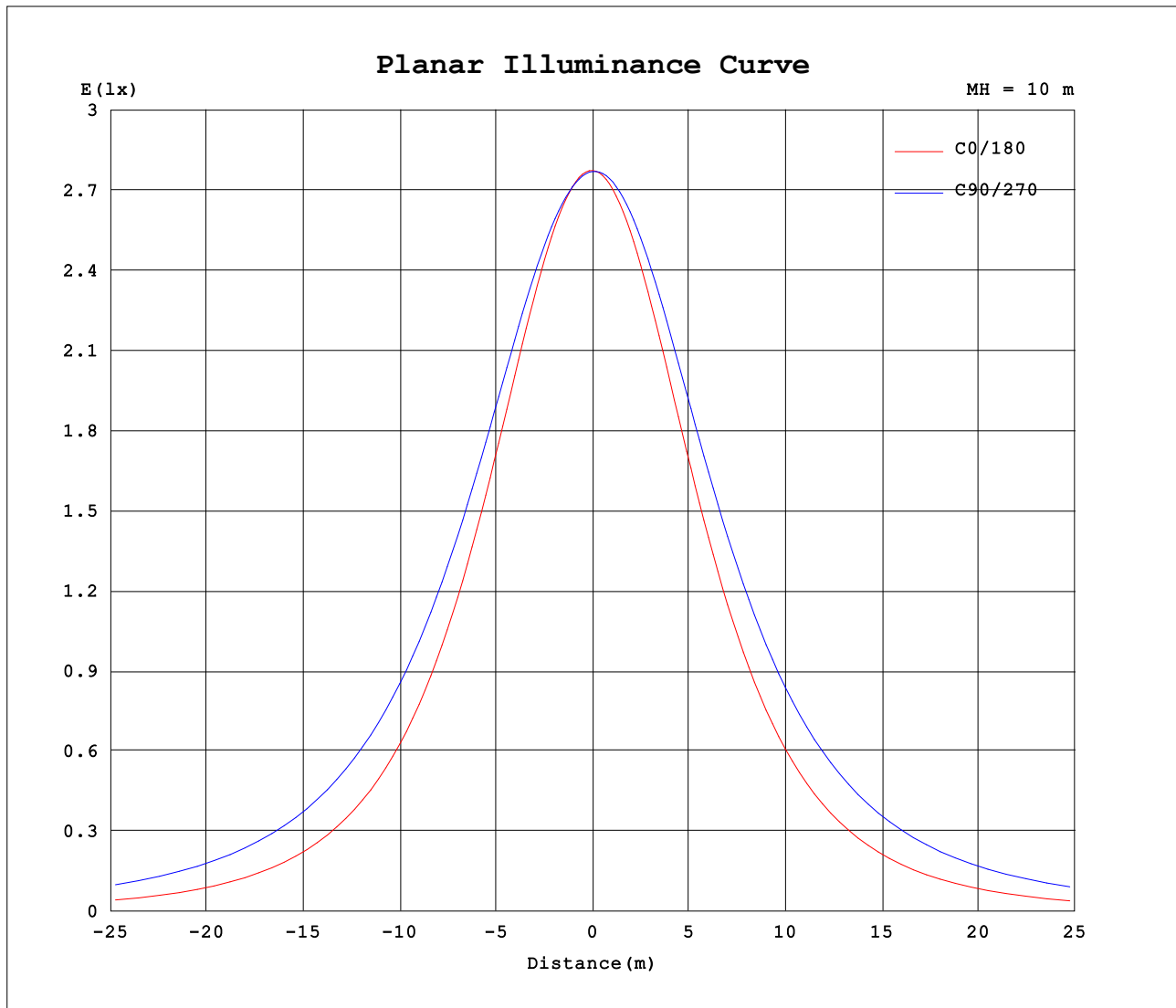


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278	278			
5	277	276	276	277	277	276	276	276	276	276	277	278	278	278	278	277			
10	273	273	274	275	275	274	273	271	271	272	275	277	278	277	276	274			
15	266	267	269	272	273	272	268	264	263	266	270	274	276	275	272	268			
20	256	258	263	269	270	268	261	255	253	257	264	270	273	271	266	260			
25	244	247	256	264	267	263	253	244	240	245	256	265	269	266	258	249			
30	230	235	247	258	262	257	244	231	226	232	246	258	263	259	249	237			
35	214	221	236	251	256	250	234	217	209	218	234	249	256	251	238	222			
40	196	206	225	243	250	242	222	201	191	201	222	240	248	242	226	206			
45	178	189	213	234	242	233	209	185	172	184	208	229	238	231	212	189			
50	158	172	200	224	233	222	196	167	152	166	194	216	226	219	198	172			
55	137	154	186	213	223	211	182	150	131	148	179	203	214	206	183	153			
60	116	136	172	201	211	199	168	132	110	130	163	189	200	192	167	135			
65	94.2	119	157	189	199	187	154	114	89.1	112	148	175	186	177	152	117			
70	72.9	101	143	175	186	173	140	97.1	67.9	94.1	132	160	171	162	136	98.8			
75	52.0	84.8	129	162	172	160	126	80.9	47.4	77.6	118	145	156	148	121	81.8			
80	32.4	69.7	115	148	158	146	112	66.2	28.5	62.6	104	131	141	133	107	66.3			
85	15.7	56.4	102	134	144	132	99.6	53.4	12.7	49.6	90.6	117	127	119	93.7	52.8			
90	4.80	45.5	90.2	121	130	119	87.8	42.6	3.45	38.9	78.7	104	113	106	81.4	41.6			
95	1.69	36.8	79.1	108	117	107	76.9	34.4	1.70	30.6	67.9	92.1	101	93.7	70.4	32.8			
100	0.99	30.0	69.0	96.0	104	94.8	67.1	28.1	1.04	24.3	58.3	81.0	89.2	82.4	60.5	26.1			
105	0.94	24.9	59.9	84.9	92.5	83.7	58.3	23.3	1.07	19.6	49.9	70.7	78.4	72.0	51.7	21.1			
110	1.05	21.0	51.8	74.4	81.4	73.5	50.4	19.7	1.14	16.0	42.4	60.8	68.4	62.5	44.1	17.2			
115	1.16	17.8	44.5	64.8	71.2	64.0	43.3	16.8	1.21	13.2	35.8	52.5	59.3	53.8	37.3	14.2			
120	1.24	14.5	38.0	55.9	61.6	55.2	36.6	13.6	1.29	10.7	28.8	44.7	50.8	45.9	31.3	11.8			
125	1.33	12.6	32.3	47.8	52.9	47.3	29.7	10.9	1.38	7.71	23.0	36.6	43.2	38.8	26.1	9.66			
130	1.43	10.8	27.2	40.5	44.9	40.0	24.1	8.52	1.46	5.47	18.3	29.9	36.1	32.3	21.5	7.47			
135	1.47	8.50	21.9	33.8	37.5	31.8	17.3	6.24	1.55	4.15	13.5	24.2	28.6	26.5	17.6	6.12			
140	1.56	7.13	18.1	27.4	30.7	25.6	13.0	5.07	1.62	3.26	10.0	18.3	23.2	21.3	14.1	4.41			
145	1.63	5.30	14.8	21.5	24.0	17.6	10.0	4.15	1.69	2.68	6.76	13.3	18.4	16.8	10.3	3.57			
150	1.68	4.48	11.3	17.3	19.0	12.6	7.21	3.48	1.76	1.78	4.84	8.63	14.0	12.3	7.95	2.66			
155	1.73	3.72	8.32	12.8	14.5	8.56	5.22	2.97	1.85	1.78	3.60	5.49	7.01	8.79	5.61	1.99			
160	1.79	2.77	6.21	8.82	9.74	5.45	4.10	2.66	1.89	1.79	2.73	3.70	6.02	5.77	3.98	1.88			
165	1.82	2.14	4.50	5.86	6.53	3.79	3.14	2.41	1.93	1.84	1.91	2.44	2.79	3.70	2.33	1.89			
170	1.90	2.01	2.88	3.89	2.90	2.75	2.63	2.12	1.94	1.91	1.92	1.95	2.36	1.96	2.17	1.90			
175	1.92	1.95	2.02	2.22	2.42	2.19	1.99	2.02	1.93	1.92	1.92	1.94	2.06	1.95	2.01	1.91			
180	1.93	1.93	1.99	1.98	2.00	1.99	1.98	1.98	1.93	1.92	1.92	1.94	1.94	1.95	1.95	1.92			

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: