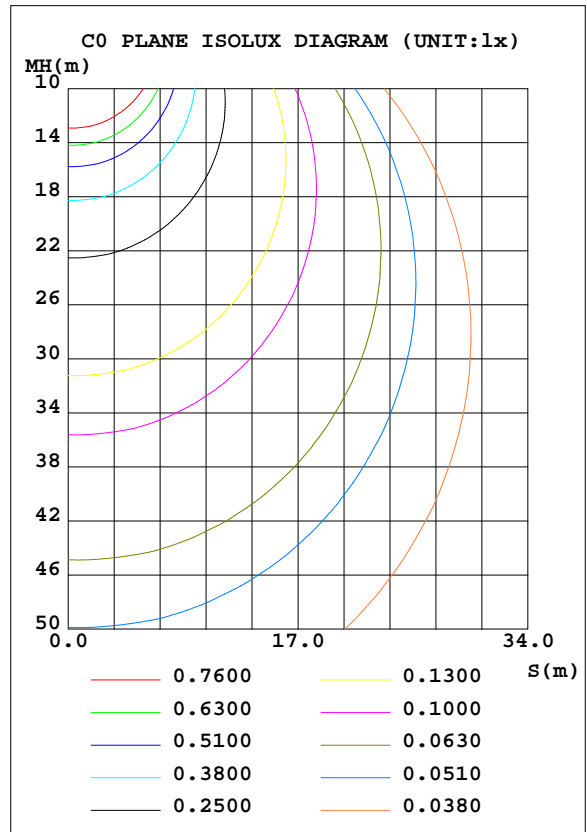
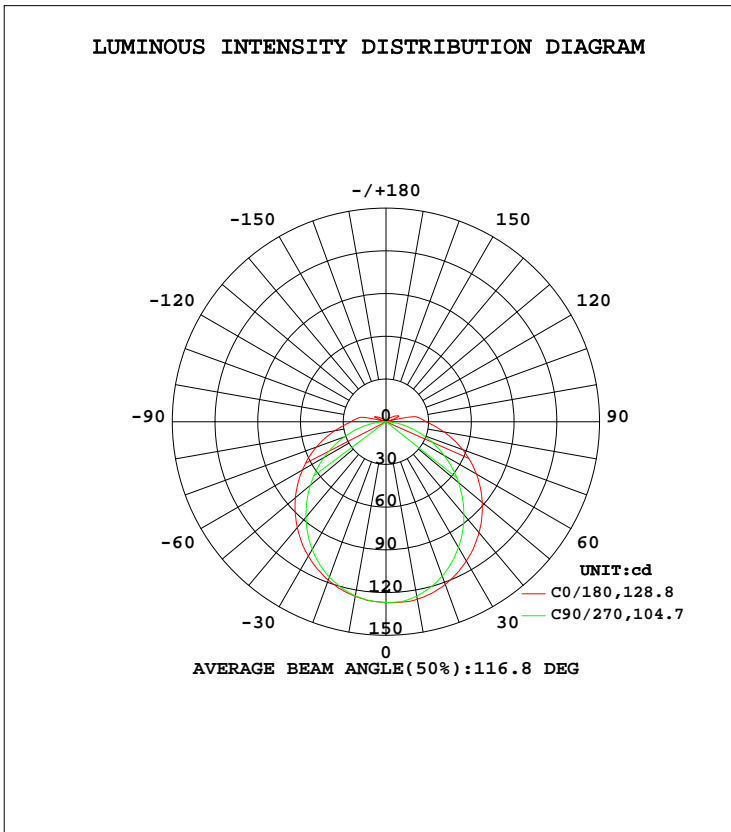


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:427.055x1 lm		
NAME:	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	短	I _{max} (cd)	127.1	S/MH(C0/180)	1.28
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.22
RATED VOLTAGE(V)		TOTAL FLUX(lm)	427.06	η UP, DN(C0-180)	3.1,46.7
NOMINAL FLUX(lm)	427.055	CIE CLASS	DIRECT	η UP, DN(C180-360)	3.0,47.2
LAMPS INSIDE	1	η up(%)	6.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)		η down(%)	93.9	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2020-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:56.4%
 Test Distance:26.000m [K=1.3952]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	126.6	125.5	124.3	124.5	124.4	124.2	124.2	125.0	0- 10	12.02	12.02	2.82,2.82
20	121.6	118.6	115.4	116.8	118.3	117.2	116.1	118.9	10- 20	34.39	46.41	10.9,10.9
30	112.8	107.6	101.8	105.3	109.0	106.1	103.5	108.5	20- 30	51.97	98.39	23,23
40	101.6	93.88	85.14	91.29	96.95	92.31	87.44	95.26	30- 40	62.73	161.1	37.7,37.7
50	88.23	78.43	66.65	75.36	83.08	76.71	69.31	80.13	40- 50	65.81	226.9	53.1,53.1
60	73.32	62.05	47.10	58.72	67.84	60.27	50.42	63.86	50- 60	61.63	288.6	67.6,67.6
70	57.40	45.54	27.78	42.47	52.13	43.73	31.23	47.67	60- 70	51.54	340.1	79.6,79.6
80	41.30	30.20	10.75	27.42	36.67	28.49	13.69	32.18	70- 80	37.57	377.7	88.4,88.4
90	28.31	19.01	1.484	17.06	24.78	17.06	2.796	20.13	80- 90	23.53	401.2	93.9,93.9
100	21.02	5.631	0.6651	3.854	18.27	2.986	0.2872	4.993	90-100	14.49	415.7	97.3,97.3
110	3.875	5.323	0	4.667	2.394	5.389	0.9570	6.956	100-110	3.530	419.2	98.2,98.2
120	8.274	4.066	0	3.408	6.840	2.951	0.2201	4.072	110-120	4.273	423.5	99.2,99.2
130	4.991	2.072	0	1.557	3.575	1.182	0.0717	2.137	120-130	2.421	425.9	99.7,99.7
140	2.390	0.7414	0	0.5189	1.265	0.0738	0	0.0728	130-140	0.9435	426.9	100,100
150	0.6706	0.0739	0	0	0	0	0	0	140-150	0.1896	427.0	100,100
160	0	0	0	0	0	0	0	0	150-160	0.0121	427.1	100,100
170	0	0	0	0	0	0	0	0	160-170	0.0003	427.1	100,100
180	0	0	0	0	0	0	0	0	170-180	0.0000	427.1	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 194.11 lm

%lum = 45.5%
%lamp = 45.5%

Conical surface Flux(120deg): 288.56 lm

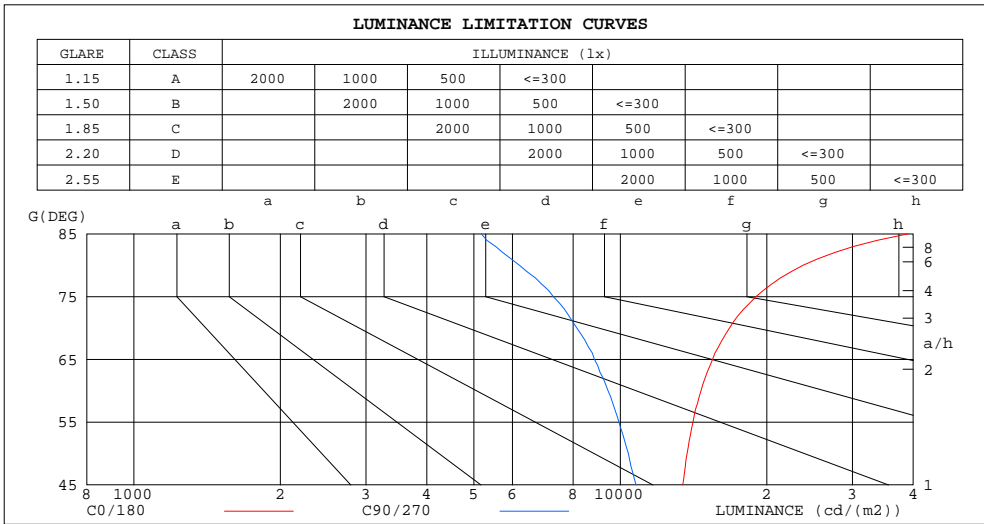
%lum = 67.6%
%lamp = 67.6%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:William
Test Date:2020-06-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:56.4%
Test Distance:26.000m [K=1.3952]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:427.055x1 lm		
NAME:	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	39029	5182
80	23766	6202
75	19015	7281
70	16772	8137
65	15472	8847
60	14653	9436
55	14108	9934
50	13717	10387
45	13436	10774

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2020-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:56.4%
 Test Distance:26.000m [K=1.3952]
 Remarks:

WEC AND CCEC

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:427.055x1 lm		
NAME:	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

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	.358	.204	.064	.349	.199	.063	.332	.190	.061	.316	.182	.059	.302	.175	.056	
2.0	.319	.175	.054	.311	.171	.053	.296	.164	.051	.282	.158	.049	.269	.152	.048	
3.0	.287	.153	.046	.280	.150	.045	.267	.144	.044	.254	.139	.043	.242	.134	.042	
4.0	.261	.136	.040	.255	.133	.039	.242	.129	.038	.231	.124	.037	.221	.120	.037	
5.0	.239	.122	.035	.233	.120	.035	.222	.116	.034	.212	.112	.033	.203	.108	.033	
6.0	.220	.110	.032	.215	.108	.031	.205	.105	.031	.196	.102	.030	.187	.098	.029	
7.0	.203	.101	.028	.199	.099	.028	.190	.096	.028	.182	.093	.027	.174	.090	.027	
8.0	.189	.092	.026	.185	.091	.026	.177	.088	.025	.169	.086	.025	.162	.083	.024	
9.0	.177	.085	.024	.173	.084	.024	.166	.082	.023	.159	.080	.023	.152	.077	.022	
10.0	.166	.079	.022	.162	.078	.022	.155	.076	.021	.149	.074	.021	.143	.072	.021	

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	.237	.237	.237	.202	.202	.202	.138	.138	.138	.079	.079	.079	.025	.025	.025	
1.0	.230	.202	.177	.197	.174	.152	.135	.119	.105	.078	.069	.061	.025	.022	.020	
2.0	.223	.179	.142	.191	.154	.122	.131	.106	.085	.075	.062	.050	.024	.020	.016	
3.0	.215	.161	.119	.184	.139	.103	.126	.097	.072	.073	.057	.043	.023	.018	.014	
4.0	.207	.149	.104	.178	.128	.090	.122	.089	.064	.071	.052	.038	.023	.017	.012	
5.0	.199	.138	.093	.171	.120	.081	.118	.084	.057	.068	.049	.034	.022	.016	.011	
6.0	.192	.130	.086	.165	.113	.075	.114	.079	.053	.066	.046	.031	.021	.015	.010	
7.0	.185	.123	.080	.159	.107	.070	.110	.075	.050	.064	.044	.030	.021	.014	.010	
8.0	.178	.118	.076	.153	.102	.066	.106	.072	.047	.062	.042	.028	.020	.014	.009	
9.0	.172	.113	.073	.148	.098	.063	.103	.069	.045	.060	.041	.027	.019	.013	.009	
10.0	.166	.108	.070	.143	.094	.061	.099	.066	.043	.058	.039	.026	.019	.013	.009	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2020-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:56.4%
 Test Distance:26.000m [K=1.3952]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:427.055x1 lm										
NAME:					TYPE:LED			WEIGHT:N/A		
SPEC.:N/A					DIM.:			SERIAL No.:N/A		
MFR.:					SUR.:			Shielding Angle:N/A		
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	22.0	23.5	22.3	23.8	24.1	20.2	21.7	20.6	22.0	22.4
3H	24.2	25.6	24.6	25.9	26.3	21.6	23.0	22.0	23.3	23.7
4H	25.4	26.7	25.8	27.1	27.4	22.2	23.5	22.6	23.8	24.2
6H	26.6	27.8	27.0	28.2	28.6	22.5	23.8	22.9	24.2	24.6
8H	27.2	28.5	27.7	28.8	29.3	22.6	23.8	23.1	24.2	24.7
12H	28.0	29.1	28.4	29.6	30.0	22.7	23.9	23.1	24.3	24.7
4H 2H	22.5	23.8	22.9	24.2	24.6	21.2	22.5	21.6	22.9	23.3
3H	25.0	26.1	25.4	26.5	27.0	22.8	24.0	23.3	24.4	24.8
4H	26.3	27.4	26.8	27.8	28.3	23.5	24.6	24.0	25.0	25.5
6H	27.8	28.7	28.3	29.2	29.7	24.1	25.0	24.6	25.5	26.0
8H	28.5	29.4	29.1	29.9	30.4	24.3	25.2	24.8	25.6	26.2
12H	29.4	30.2	29.9	30.7	31.3	24.4	25.2	24.9	25.7	26.2
8H 4H	26.6	27.5	27.1	28.0	28.5	24.3	25.2	24.8	25.7	26.2
6H	28.3	29.1	28.9	29.6	30.2	25.2	25.9	25.7	26.4	27.0
8H	29.3	30.0	29.9	30.5	31.1	25.5	26.2	26.1	26.7	27.3
12H	30.4	31.0	31.0	31.6	32.2	25.8	26.4	26.4	26.9	27.5
12H 4H	26.6	27.5	27.2	28.0	28.5	24.5	25.4	25.0	25.8	26.4
6H	28.4	29.1	29.0	29.6	30.2	25.6	26.2	26.1	26.8	27.3
8H	29.5	30.1	30.1	30.6	31.3	26.0	26.6	26.6	27.2	27.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 427.1 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -3.0)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2020-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:56.4%
 Test Distance:26.000m [K=1.3952]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:427.055x1 lm		
NAME:	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

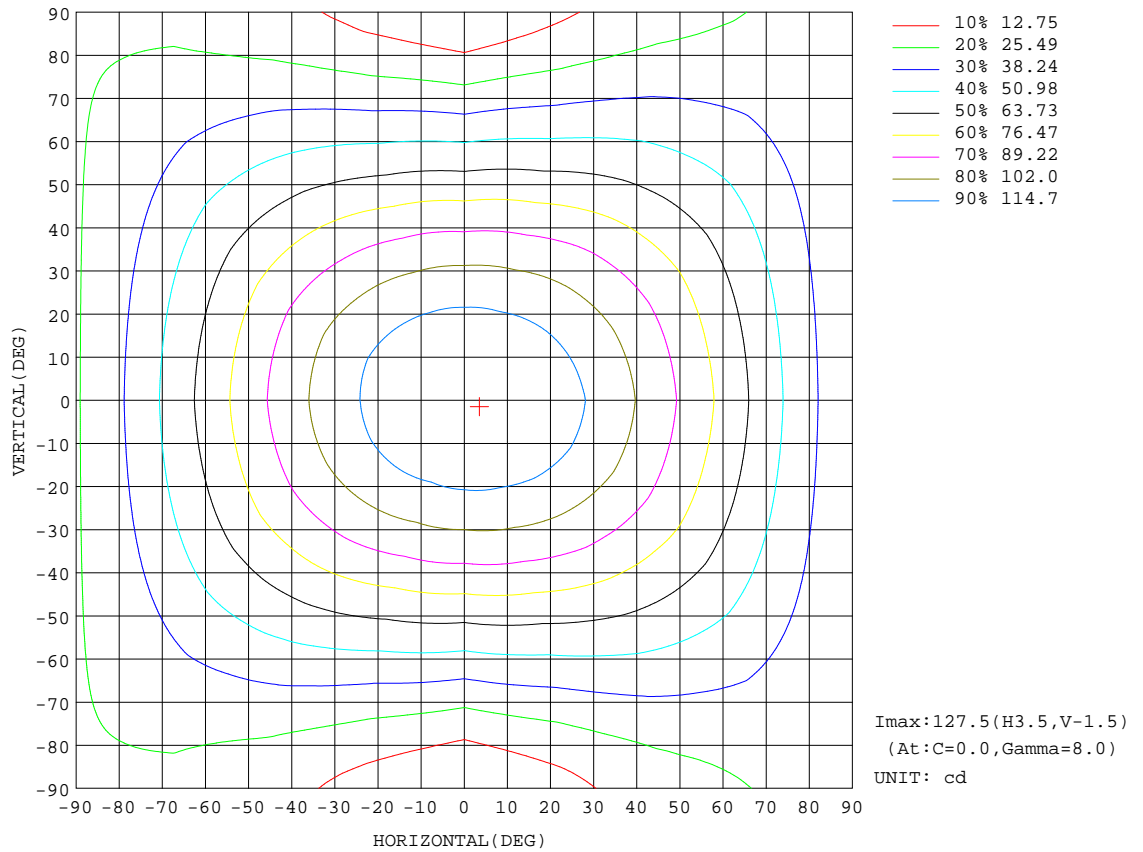
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	34	53	41	34	51	40	34	27
0.80	63	51	43	62	50	43	60	49	42	35
1.00	71	59	51	70	58	51	67	59	50	42
1.25	78	66	58	76	65	58	73	64	57	49
1.50	83	72	64	81	71	63	77	69	62	53
2.00	90	80	73	88	79	72	83	76	70	61
2.50	94	85	78	92	83	77	87	80	74	65
3.00	98	89	83	95	88	81	90	84	79	69
4.00	102	95	89	99	93	88	94	89	84	74
5.00	105	99	94	102	96	92	96	92	88	77
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:24.5DEG
 Operators:William
 Test Date:2020-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:56.4%
 Test Distance:26.000m [K=1.3952]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:427.055x1 lm		
NAME:	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

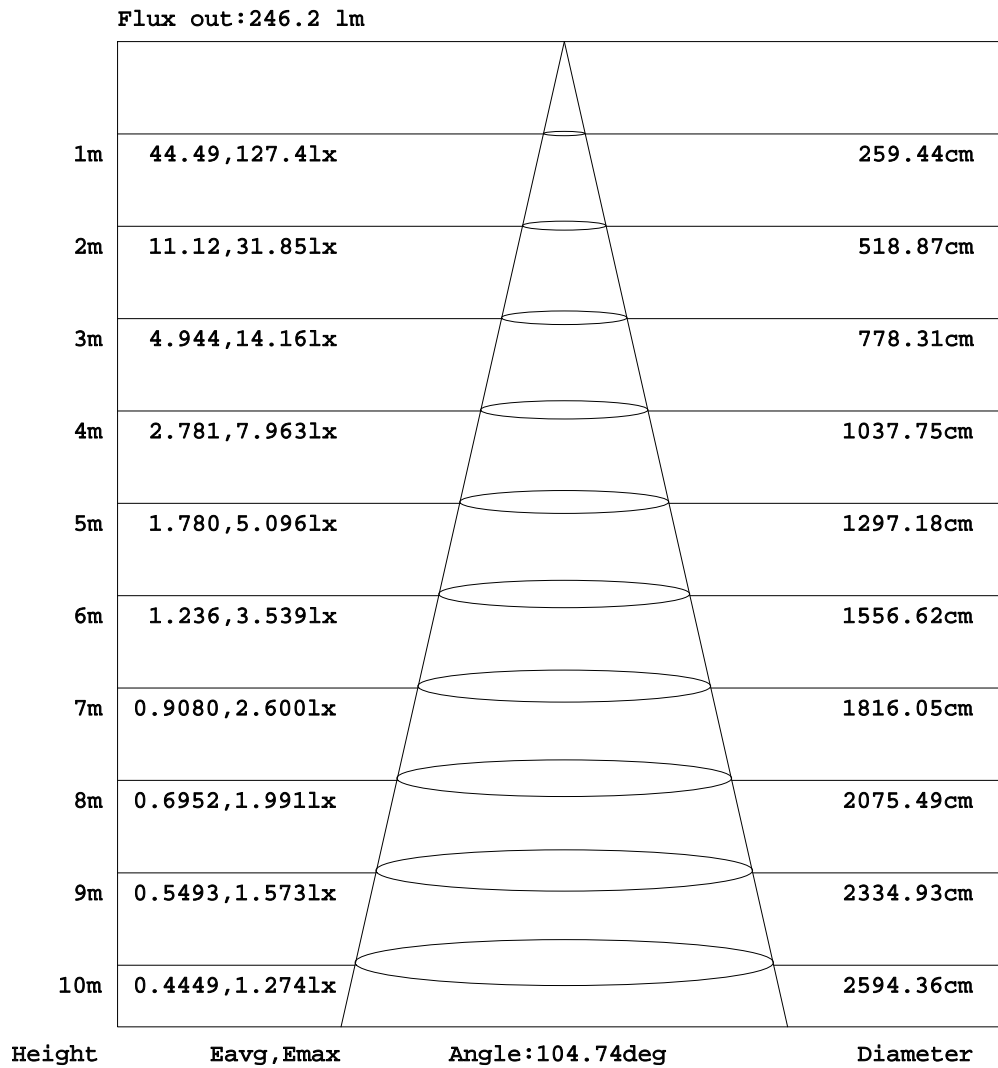


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: William
 Test Date: 2020-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity: 56.4%
 Test Distance: 26.000m [K=1.3952]
 Remarks:

AAI Figure

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:427.055x1 lm		
NAME:	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

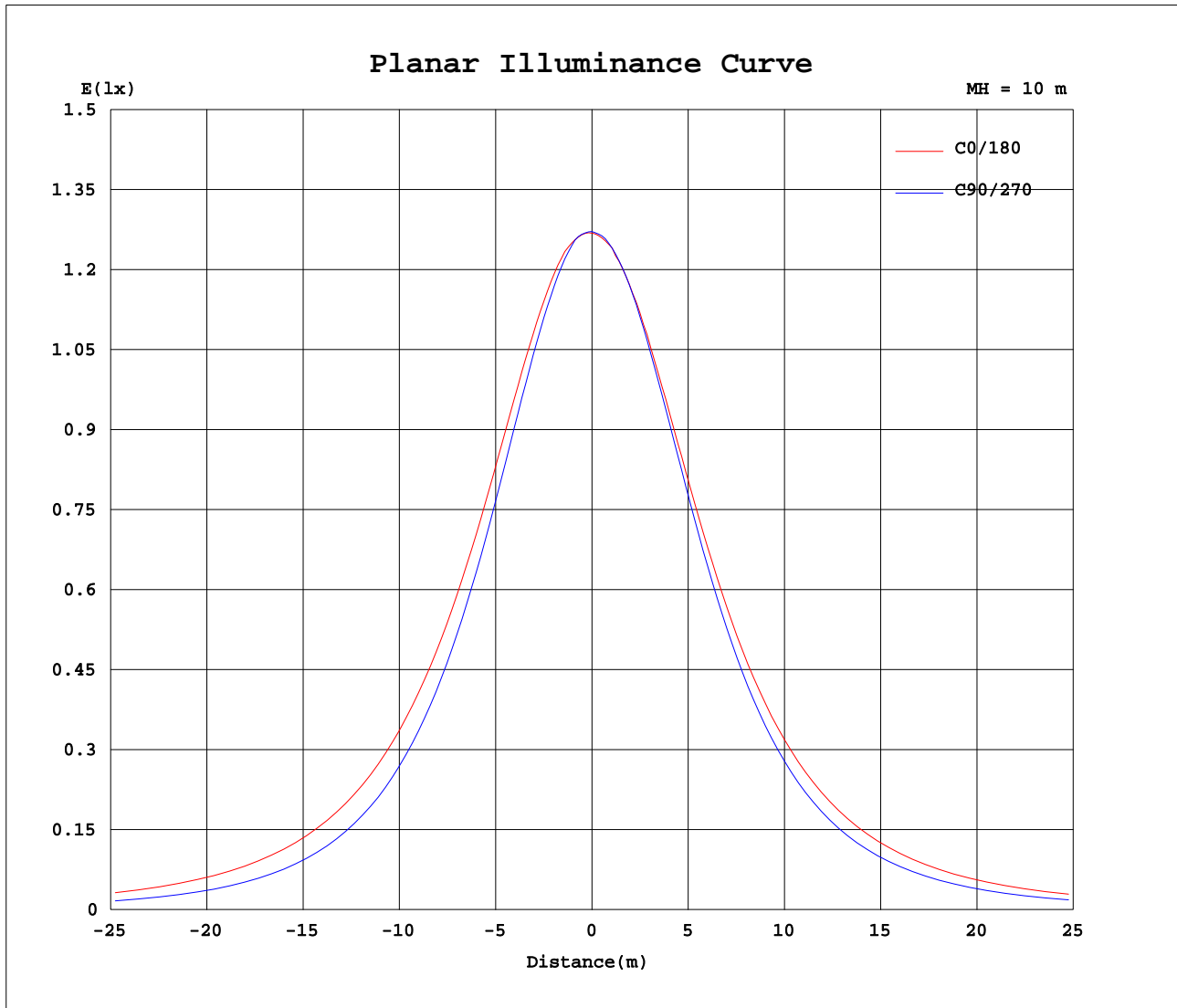


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2020-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:56.4%
 Test Distance:26.000m [K=1.3952]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.5DEG
Operators: William
Test Date: 2020-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity: 56.4%
Test Distance: 26.000m [K=1.3952]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:427.055x1 lm		
NAME:	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

Table--1

UNIT: cd

C(DEG) γ (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	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127			
5	127	127	127	127	127	127	127	126	126	126	126	126	126	126	127	127			
10	127	126	126	125	124	124	124	124	124	125	124	124	124	125	125	126			
15	125	124	123	121	120	120	121	122	122	122	121	121	121	121	123	123			
20	122	120	119	116	115	116	117	118	118	118	117	116	116	117	119	120			
25	118	116	114	111	109	110	112	113	114	114	112	111	110	112	114	116			
30	113	111	108	104	102	103	105	108	109	108	106	104	103	105	108	111			
35	108	105	101	96.6	93.9	95.2	98.7	102	103	102	99.6	97.0	95.9	98.2	102	105			
40	102	99.1	93.9	88.3	85.1	86.9	91.3	95.2	96.9	95.9	92.3	88.7	87.4	90.4	95.3	99.3			
45	95.1	92.3	86.3	79.7	76.1	78.1	83.4	87.9	90.2	88.9	84.7	80.4	78.6	82.0	87.8	92.7			
50	88.2	84.9	78.4	70.7	66.7	69.3	75.4	80.6	83.1	81.3	76.7	71.5	69.3	73.3	80.1	85.5			
55	81.0	77.4	70.4	61.7	56.9	60.4	67.0	73.0	75.5	73.7	68.4	62.5	59.9	64.4	72.0	78.1			
60	73.3	69.5	62.1	52.6	47.1	51.4	58.7	64.8	67.8	65.6	60.3	53.6	50.4	55.8	63.9	70.4			
65	65.4	61.7	53.7	43.7	37.3	42.4	50.4	57.1	60.2	57.8	51.9	44.7	40.8	46.9	55.8	62.7			
70	57.4	53.6	45.5	35.0	27.8	33.9	42.5	49.1	52.1	49.8	43.7	35.9	31.2	38.2	47.7	54.7			
75	49.2	45.7	37.6	26.7	18.8	25.6	34.6	41.3	44.2	41.9	35.8	27.5	22.1	29.9	39.6	46.7			
80	41.3	37.9	30.2	19.4	10.8	18.3	27.4	33.9	36.7	34.4	28.5	20.0	13.7	22.4	32.2	38.9			
85	34.0	31.1	23.7	13.2	4.51	12.4	21.2	27.5	29.7	27.7	21.9	13.5	6.77	15.8	25.3	31.7			
90	28.3	25.7	19.0	9.24	1.48	8.51	17.1	23.1	24.8	22.8	17.1	8.92	2.80	11.1	20.1	26.1			
95	24.7	22.3	16.0	5.98	1.11	5.13	14.3	19.9	21.6	19.4	14.0	5.79	2.06	7.21	16.7	22.4			
100	21.0	18.1	5.63	2.28	0.67	1.70	3.85	15.5	18.3	15.5	2.99	2.28	0.29	3.33	4.99	18.1			
105	2.27	0.39	0.81	2.43	0.00	1.70	0.95	0.16	1.67	0.15	3.56	1.70	0.23	2.96	5.15	0.30			
110	3.87	5.15	5.32	1.77	0.00	1.48	4.67	4.61	2.39	5.30	5.39	1.33	0.96	2.22	6.96	7.21			
115	9.68	8.28	4.89	1.18	0.00	0.89	4.23	7.41	8.49	6.95	4.13	0.51	0.44	1.33	5.26	8.30			
120	8.27	6.96	4.07	0.81	0.00	0.52	3.41	6.08	6.84	5.47	2.95	0.07	0.22	0.59	4.07	6.95			
125	6.63	5.48	3.03	0.44	0.00	0.30	2.45	4.67	4.99	4.06	2.06	0.00	0.07	0.07	3.11	5.11			
130	4.99	4.22	2.07	0.22	0.00	0.15	1.56	3.42	3.57	2.73	1.18	0.00	0.07	0.07	2.14	3.70			
135	3.65	2.89	1.26	0.15	0.00	0.07	0.89	2.30	2.46	1.54	0.30	0.00	0.00	0.00	1.25	2.44			
140	2.39	1.85	0.74	0.07	0.00	0.00	0.52	1.41	1.27	0.52	0.07	0.00	0.00	0.00	0.07	1.19			
145	1.42	1.04	0.22	0.00	0.00	0.00	0.15	0.67	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.22			
150	0.67	0.45	0.07	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
155	0.15	0.07	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
160	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00			
165	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			
170	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			
175	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	0.07	0.00			
180	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: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2020-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:56.4%
 Test Distance:26.000m [K=1.3952]
 Remarks: