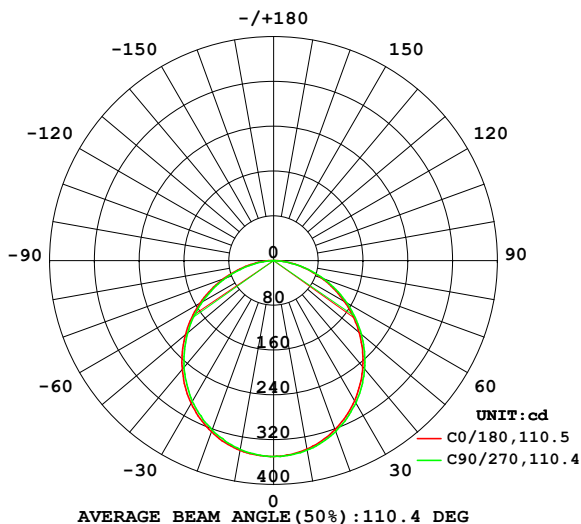


LUMINAIRE PHOTOMETRIC TEST REPORT

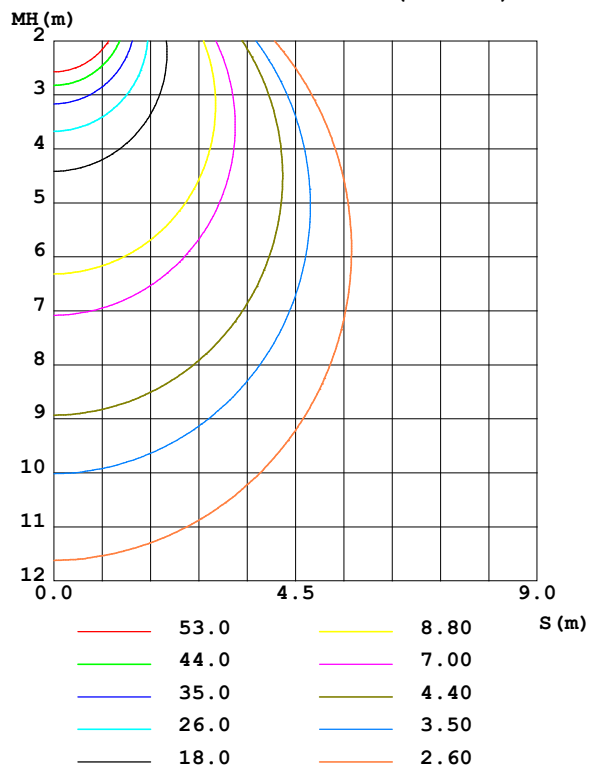
Test:U:119.87V I:0.1879A P:14.778W PF:0.6562 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:978.43x1 lm		
NAME: LED-SL-PNL-6R-3P15W-5CCT-WH	TYPE:	WEIGHT:
SPEC.: 2700K	DIM.:	SERIAL No.:
MFR.: Envisionled	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 66.21 lm/W			
MODEL		I _{max} (cd)	350.5	S/MH(C0/180)	1.25
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	978.43	η UP,DN(C0-180)	0.0,50.4
NOMINAL FLUX(lm)	978.43	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.6
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down (%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2022-06-20

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

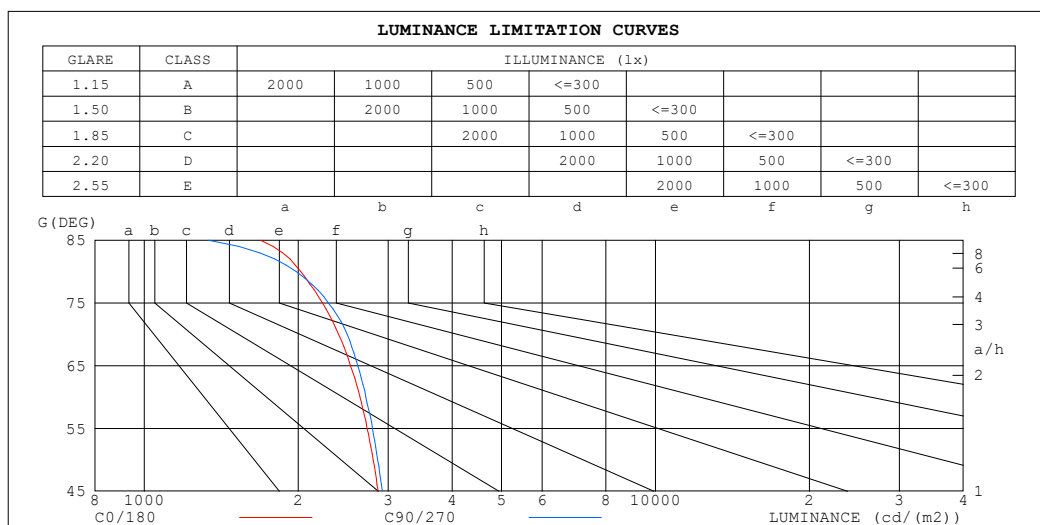
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	342.1	343.5	344.1	344.5	344.3	343.3	342.5	341.9	0- 10	33.09	33.09	3.38,3.38
20	321.3	324.1	324.9	325.5	325.3	324.0	322.0	320.7	10- 20	94.49	127.6	13,13
30	289.5	292.8	293.8	294.3	294.8	292.5	290.3	288.3	20- 30	142.4	270.0	27.6,27.6
40	247.8	251.8	252.9	253.6	253.9	251.8	249.0	246.3	30- 40	170.5	440.4	45,45
50	199.5	203.6	204.4	205.1	205.6	203.4	200.4	198.0	40- 50	175.5	615.9	62.9,62.9
60	146.3	150.1	150.7	151.3	151.7	149.6	146.8	144.5	50- 60	157.5	773.4	79,79
70	90.93	94.30	94.82	95.09	95.09	93.07	90.75	89.11	60- 70	119.7	893.1	91.3,91.3
80	38.89	39.47	38.28	40.37	41.64	37.23	34.32	35.90	70- 80	68.73	961.8	98.3,98.3
90	0.3999	0.3843	0.3745	0.3870	0.3257	0.2336	0.2286	0.2488	80- 90	16.62	978.4	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2022-06-20

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.87V I:0.1879A P:14.778W PF:0.6562 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:978.43x1 lm		
NAME: LED-SL-PNL-6R-3P15W-5CCT-WH	TYPE:	WEIGHT:
SPEC.: 2700K	DIM.:	SERIAL No.:
MFR.: Envisionled	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1688	1335
80	2022	1983
75	2230	2292
70	2400	2494
65	2531	2616
60	2642	2711
55	2729	2795
50	2803	2861
45	2869	2920

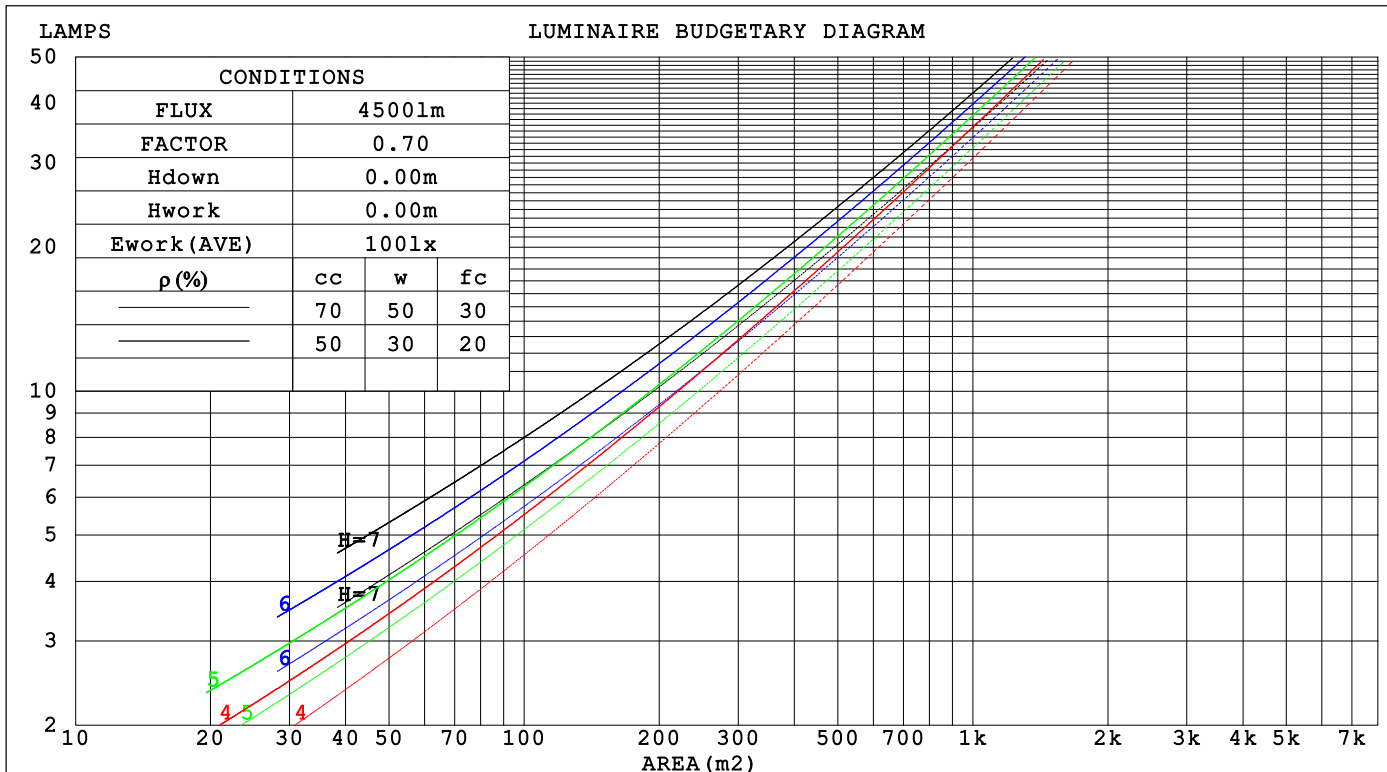
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 2022-06-20

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity: 65.0%
Test Distance: 3.090m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.87V I:0.1879A P:14.778W PF:0.6562 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:978.43x1 lm		
NAME: LED-SL-PNL-6R-3P15W-5CCT-WH	TYPE:	WEIGHT:
SPEC.: 2700K	DIM.:	SERIAL No.:
MFR.: Envisionled	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2022-06-20

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:119.87V I:0.1879A P:14.778W PF:0.6562 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:978.43x1 lm		
NAME: LED-SL-PNL-6R-3P15W-5CCT-WH	TYPE:	WEIGHT:
SPEC.: 2700K	DIM.:	SERIAL No.:
MFR.: Envisionled	SUR.:	Shielding Angle:

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	.307	.175	.055	.300	.171	.054	.287	.165	.053	.275	.159	.051	.264	.153	.049		
2.0	.290	.159	.049	.284	.156	.048	.272	.151	.047	.262	.147	.046	.252	.142	.045		
3.0	.269	.143	.043	.263	.141	.042	.253	.137	.042	.243	.133	.041	.235	.130	.040		
4.0	.248	.129	.038	.243	.127	.038	.234	.124	.037	.226	.121	.037	.218	.118	.036		
5.0	.230	.117	.034	.225	.116	.034	.217	.113	.033	.210	.111	.033	.203	.108	.033		
6.0	.213	.107	.031	.209	.106	.030	.202	.104	.030	.195	.101	.030	.189	.099	.030		
7.0	.198	.098	.028	.195	.097	.028	.188	.095	.027	.182	.093	.027	.177	.092	.027		
8.0	.185	.091	.025	.182	.090	.025	.176	.088	.025	.171	.087	.025	.166	.085	.025		
9.0	.174	.084	.023	.171	.083	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023		
10.0	.163	.078	.022	.161	.078	.022	.156	.076	.022	.152	.075	.021	.148	.074	.021		

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.180	.156	.135	.154	.134	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.172	.132	.098	.147	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.164	.114	.074	.141	.099	.065	.097	.068	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.134	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.149	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.129	.069	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.004	
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2022-06-20

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.87V I:0.1879A P:14.778W PF:0.6562 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:978.43x1 lm												
NAME: LED-SL-PNL-6R-3P15W-5CCT-WH						TYPE:			WEIGHT:			
SPEC.: 2700K						DIM.:			SERIAL No.:			
MFR.: Envisionled						SUR.:			Shielding Angle:			
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		16.5	18.0	16.7	18.2	18.4	16.6	18.1	16.8	18.3	18.5	
		3H	18.0	19.4	18.3	19.6	19.8	18.1	19.5	18.4	19.7	20.0
		4H	18.6	19.9	18.9	20.1	20.4	18.7	20.0	19.0	20.3	20.5
		6H	19.0	20.2	19.3	20.5	20.8	19.1	20.4	19.4	20.6	20.9
		8H	19.1	20.3	19.5	20.6	20.9	19.2	20.4	19.6	20.7	21.0
		12H	19.2	20.4	19.6	20.7	21.0	19.3	20.4	19.6	20.7	21.0
4H		2H	17.1	18.4	17.4	18.7	18.9	17.2	18.5	17.5	18.7	19.0
		3H	18.8	19.9	19.1	20.2	20.5	18.9	20.1	19.2	20.3	20.7
		4H	19.5	20.6	19.9	20.9	21.2	19.6	20.7	20.0	21.0	21.3
		6H	20.1	21.0	20.5	21.4	21.7	20.1	21.1	20.5	21.4	21.8
		8H	20.3	21.1	20.7	21.5	21.9	20.3	21.2	20.7	21.6	21.9
		12H	20.4	21.2	20.8	21.6	22.0	20.4	21.2	20.8	21.6	22.0
8H		4H	19.8	20.7	20.2	21.0	21.4	19.9	20.8	20.3	21.1	21.5
		6H	20.5	21.2	20.9	21.6	22.1	20.6	21.3	21.0	21.7	22.1
		8H	20.8	21.4	21.2	21.9	22.3	20.8	21.4	21.3	21.9	22.3
		12H	21.0	21.5	21.4	22.0	22.5	20.9	21.5	21.4	21.9	22.4
12H		4H	19.8	20.6	20.2	21.0	21.4	19.9	20.7	20.3	21.1	21.5
		6H	20.6	21.2	21.0	21.6	22.1	20.6	21.3	21.1	21.7	22.1
		8H	20.9	21.4	21.3	21.9	22.4	20.9	21.4	21.4	21.9	22.4
Variations with the observer position at spacings(CIE Pub.117):												
S = 1.0H		+ 0.2 / - 0.2					+ 0.2 / - 0.2					
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H		+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117, 978.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.1)
Area: 0.111111 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2022-06-20

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.87V I:0.1879A P:14.778W PF:0.6562 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:978.43x1 lm		
NAME: LED-SL-PNL-6R-3P15W-5CCT-WH	TYPE:	WEIGHT:
SPEC.: 2700K	DIM.:	SERIAL No.:
MFR.: Envisionled	SUR.:	Shielding Angle:

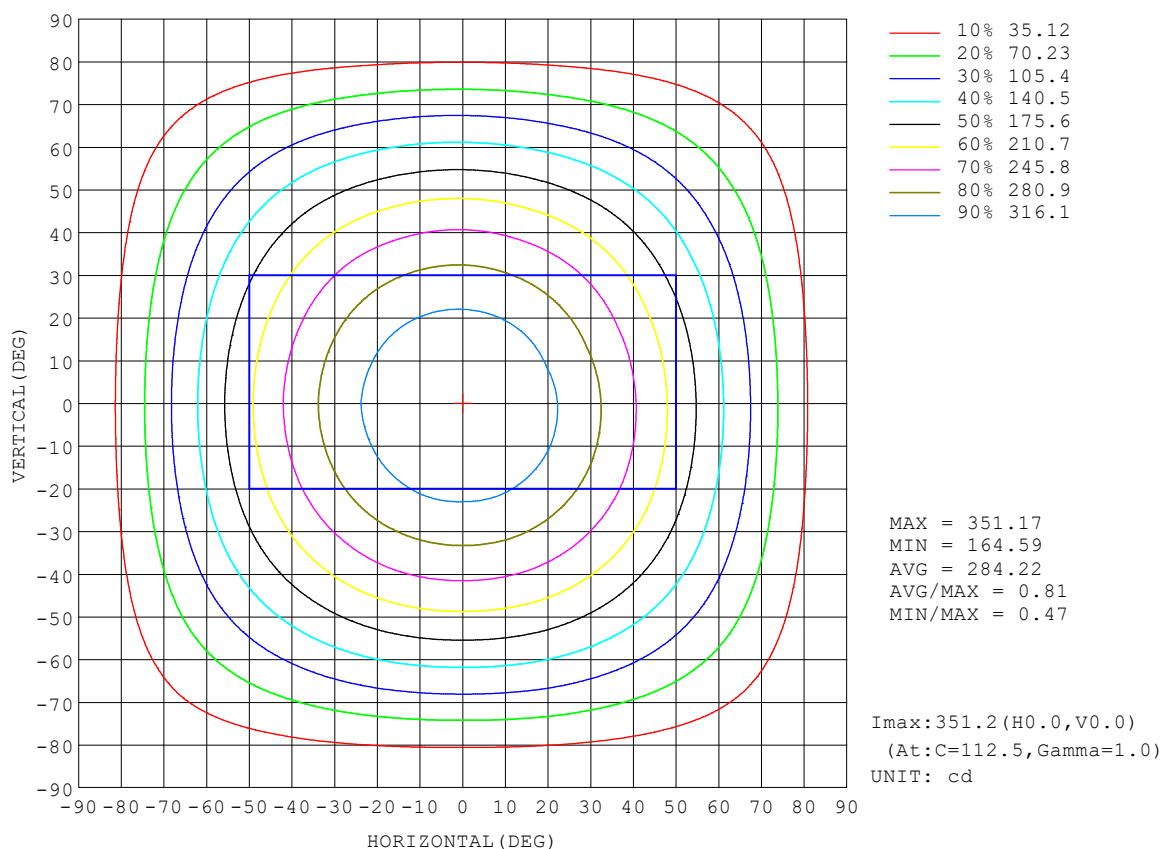
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	45	39	33
0.80	68	56	49	67	56	49	65	55	48	41
1.00	76	65	58	75	65	58	73	66	57	50
1.25	83	73	66	82	72	65	79	71	64	57
1.50	88	78	71	87	78	71	84	76	70	62
2.00	95	87	80	93	85	79	90	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	96	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	100	96	92	83
5.00	109	104	100	106	102	98	102	98	95	86
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: 25.3°C
Operators:
Test Date: 2022-06-20

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity: 65.0%
Test Distance: 3.090m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:119.87V I:0.1879A P:14.778W PF:0.6562 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:978.43x1 lm		
NAME: LED-SL-PNL-6R-3P15W-5CCT-WH	TYPE:	WEIGHT:
SPEC.: 2700K	DIM.:	SERIAL No.:
MFR.: Envisionled	SUR.:	Shielding Angle:

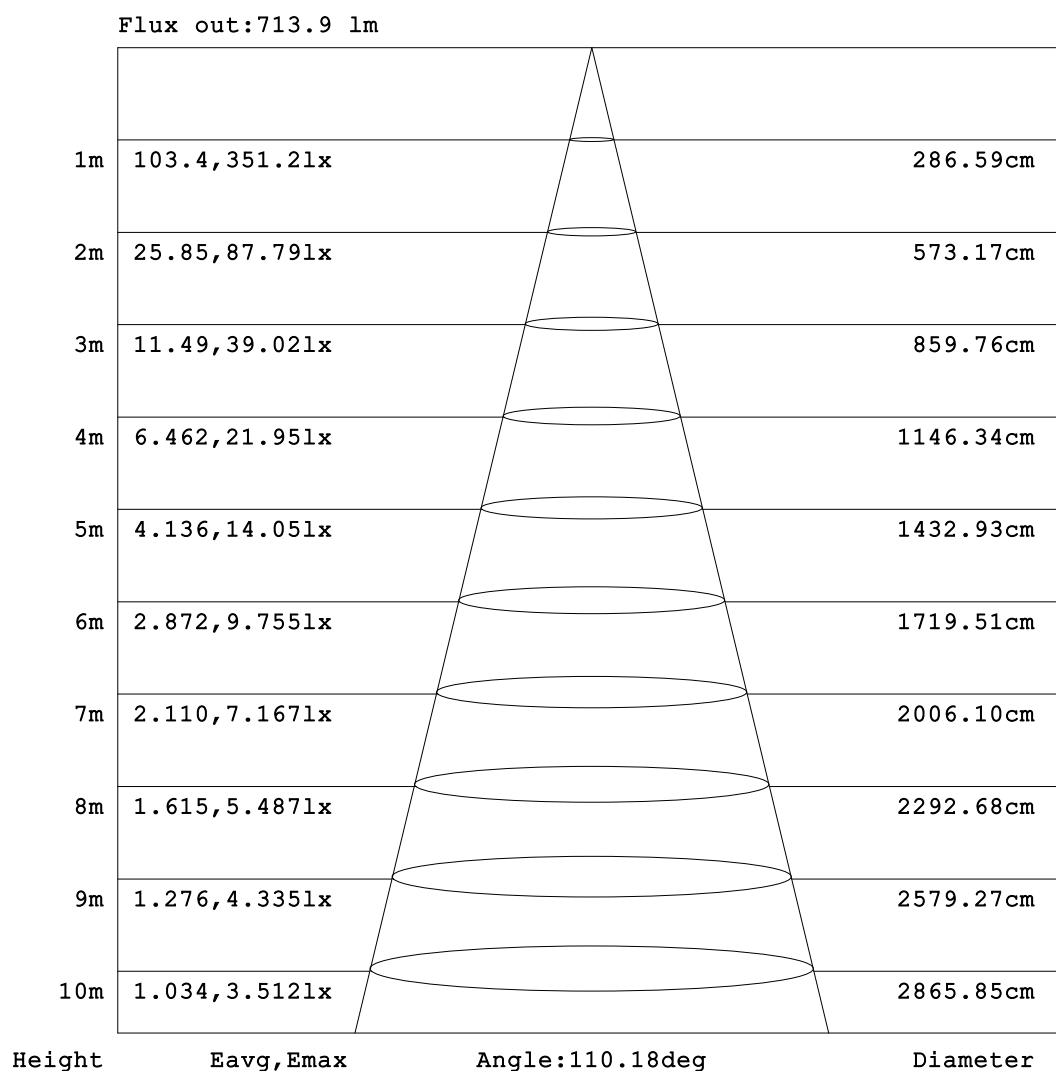


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2022-06-20

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

AAI Figure

Test:U:119.87V I:0.1879A P:14.778W PF:0.6562 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:978.43x1 lm		
NAME: LED-SL-PNL-6R-3P15W-5CCT-WH	TYPE:	WEIGHT:
SPEC.: 2700K	DIM.:	SERIAL No.:
MFR.: Envisionled	SUR.:	Shielding Angle:



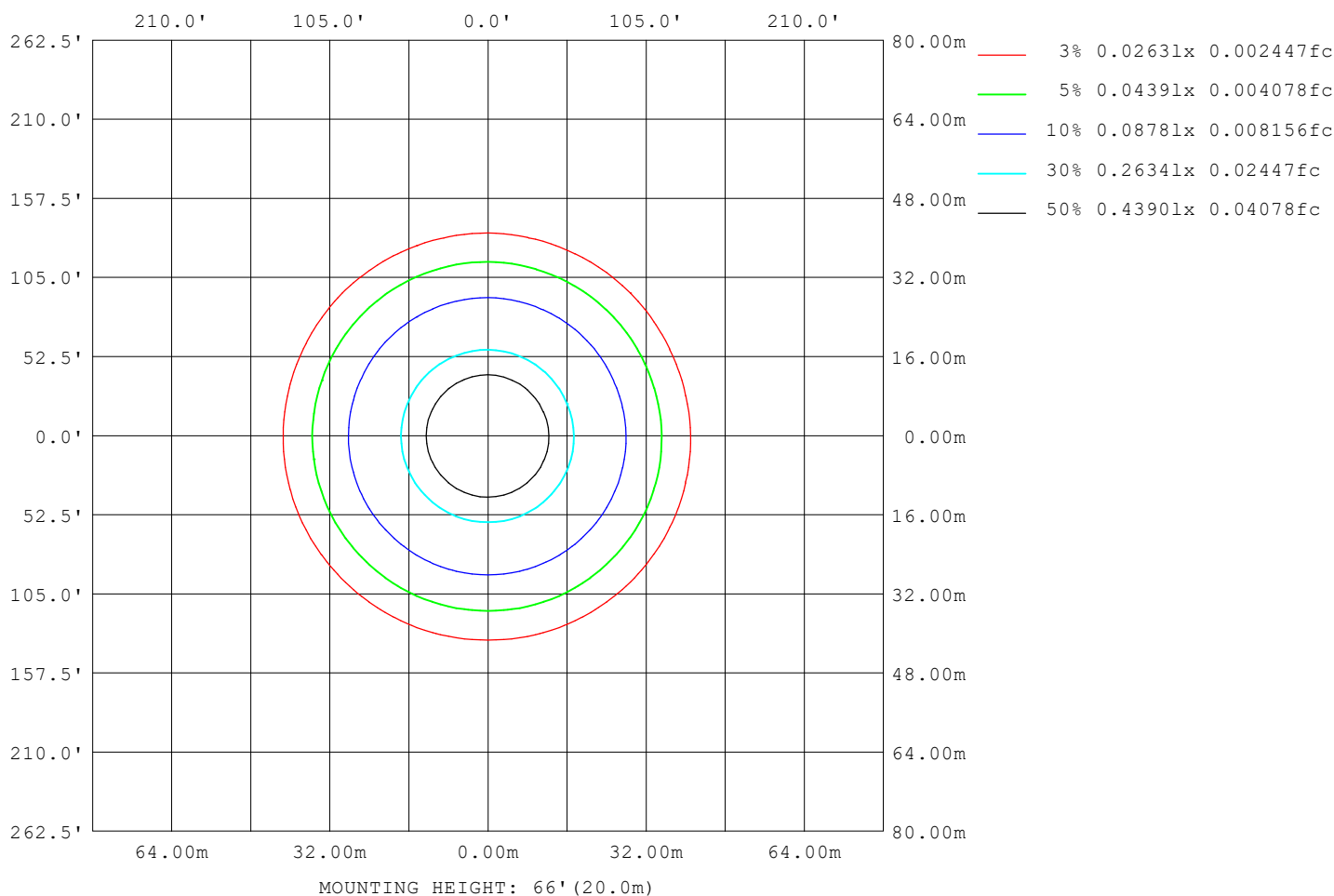
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:
 Test Date:2022-06-20

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.090m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:119.87V I:0.1879A P:14.778W PF:0.6562 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:978.43x1 lm		
NAME: LED-SL-PNL-6R-3P15W-5CCT-WH	TYPE:	WEIGHT:
SPEC.: 2700K	DIM.:	SERIAL No.:
MFR.: Envisionled	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2022-06-20

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:119.87V I:0.1879A P:14.778W PF:0.6562 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:978.43x1 lm		
NAME: LED-SL-PNL-6R-3P15W-5CCT-WH	TYPE:	WEIGHT:
SPEC.: 2700K	DIM.:	SERIAL No.:
MFR.: Envisionled	SUR.:	Shielding Angle:

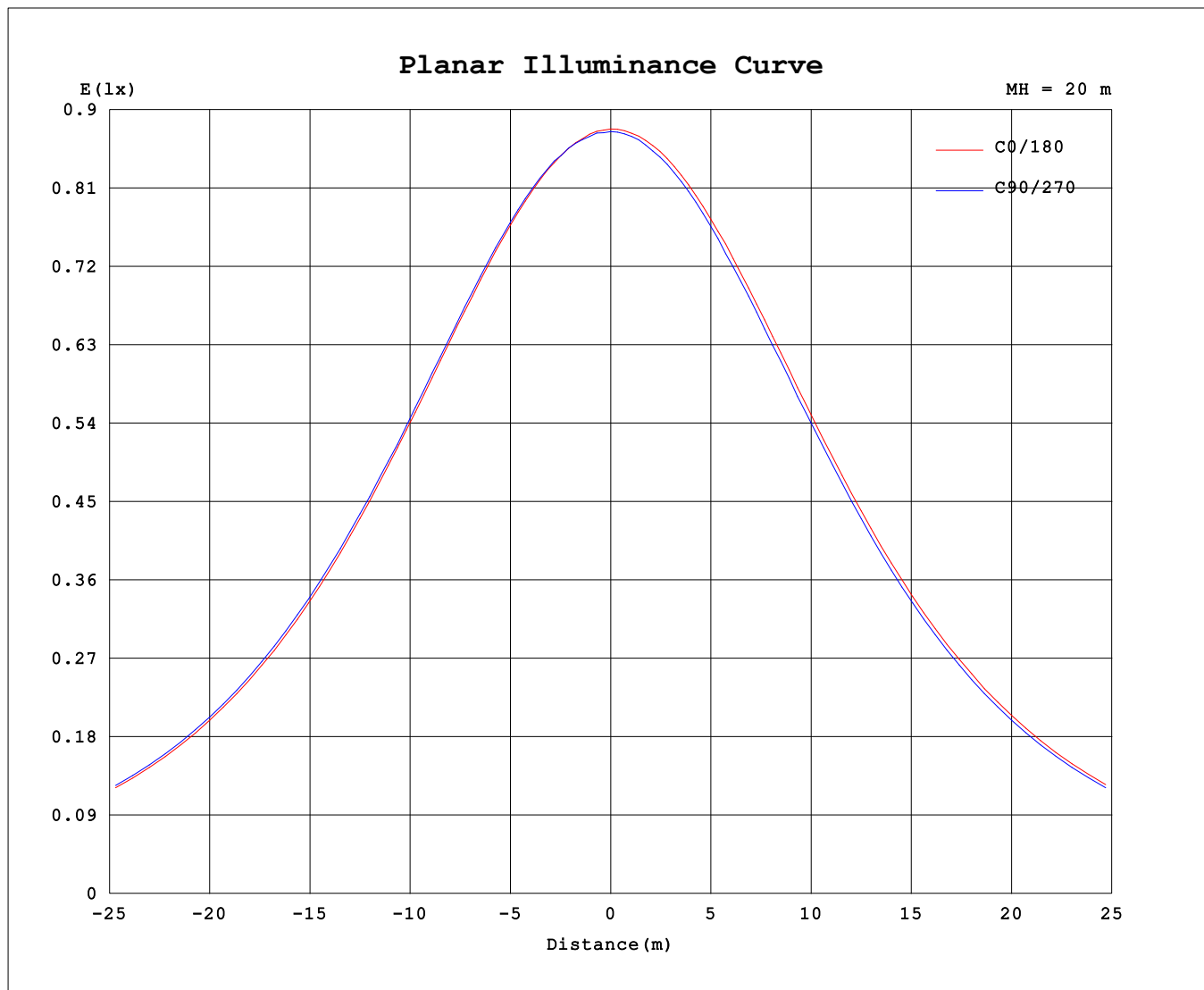
AvgL	cd/m2
L_0~180 (65) av	2576
L_0~180 (75) av	2284
L_0~180 (85) av	1777
L_90~270 (65) av	2574
L_90~270 (75) av	2222
L_90~270 (85) av	1166
L_45 (65) av	2574
L_45 (75) av	2262
L_45 (85) av	1390

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2022-06-20

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators:
 Test Date: 2022-06-20

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.090m [K=1.0000]
 Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

```