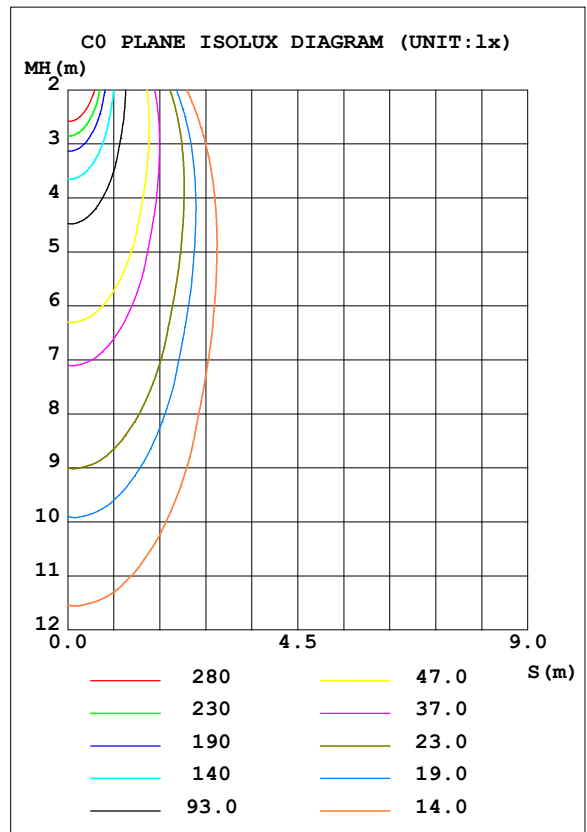
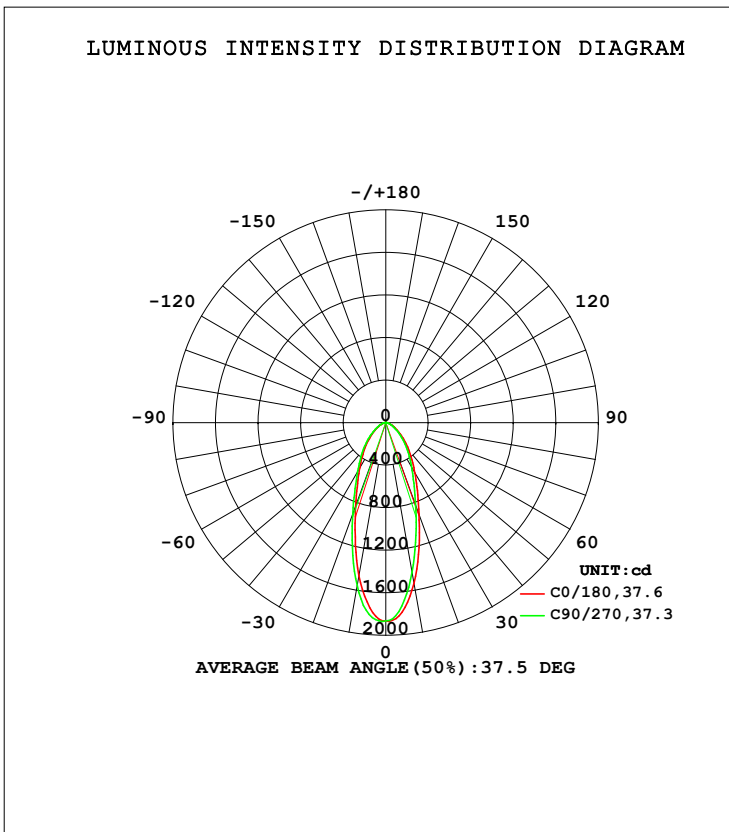


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:119.98V I:0.1169A P:13.842W PF:0.9516 Freq:59.98Hz Lamp Flux:1449.22x1 lm		
NAME: LED-6-S15W-5CCT-FG-WH	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.: Light by Lotus	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 104.69 lm/W			
MODEL		Imax (cd)	1871	S/MH (C0/180)	0.58
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.62
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1449.2	<input type="checkbox"/> UP, DN (C0-180)	0.0, 49.0
NOMINAL FLUX (lm)	1449.22	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.0, 51.0
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	120	<input type="checkbox"/> down (%)	100.0	CIBSE SHR MAX	0.70



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2021-08-04

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity: 65.0%  
 Test Distance: 3.080m [K=1.0000]  
 Remarks: PORTER

**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

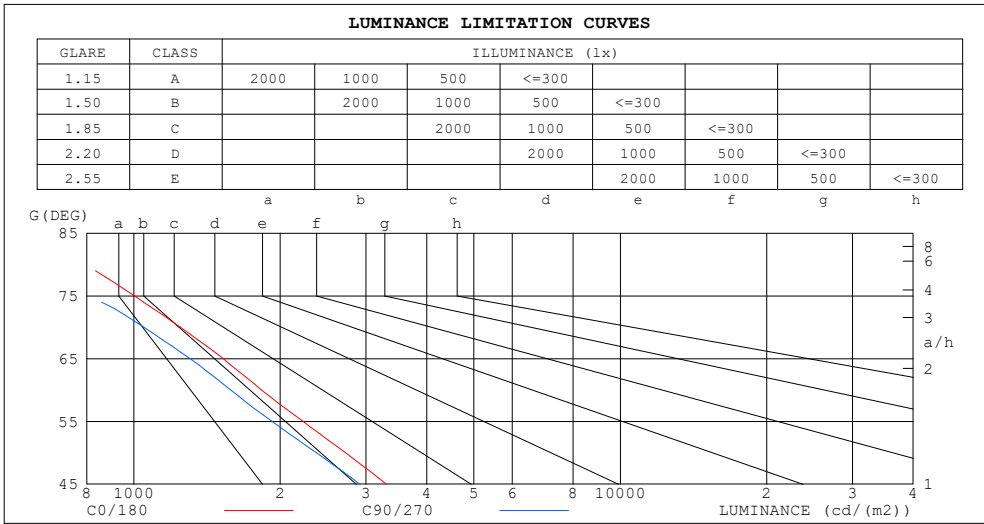
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1534	1487	1428	1409	1460	1522	1556	1553	0- 10	159.7	159.7	11,11
20	918.0	881.3	825.4	800.9	831.8	874.5	910.8	924.7	10- 20	321.8	481.5	33.2,33.2
30	550.2	527.4	490.3	480.6	492.2	511.7	530.0	546.9	20- 30	306.6	788.1	54.4,54.4
40	339.0	319.4	301.6	300.7	301.2	310.1	329.1	346.6	30- 40	255.2	1043	72,72
50	194.4	176.8	169.6	172.3	170.6	173.1	189.5	204.5	40- 50	188.7	1232	85,85
60	101.6	90.27	87.85	90.12	89.15	89.41	99.14	107.1	50- 60	119.2	1351	93.2,93.2
70	47.34	41.31	39.88	40.80	40.49	41.07	46.45	49.70	60- 70	66.15	1417	97.8,97.8
80	15.29	11.28	7.282	10.42	12.24	12.15	12.19	15.81	70- 80	27.95	1445	99.7,99.7
90	0.0801	0.0754	0.0808	0.0875	0.1432	0.1257	0.1155	0.1216	80- 90	3.900	1449	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:25.3DEG  
 Operators:  
 Test Date:2021-08-04

□ Range: 0 - 90DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks: PORTER

**LUMINANCE LIMITATION CURVES**

Test:U:119.98V I:0.1169A P:13.842W PF:0.9516 Freq:59.98Hz Lamp Flux:1449.22x1 lm		
NAME: LED-6-S15W-5CCT-FG-WH	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.: Light by Lotus	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	398	14
80	793	377
75	1003	786
70	1246	1049
65	1526	1305
60	1829	1581
55	2225	1922
50	2722	2373
45	3306	2915

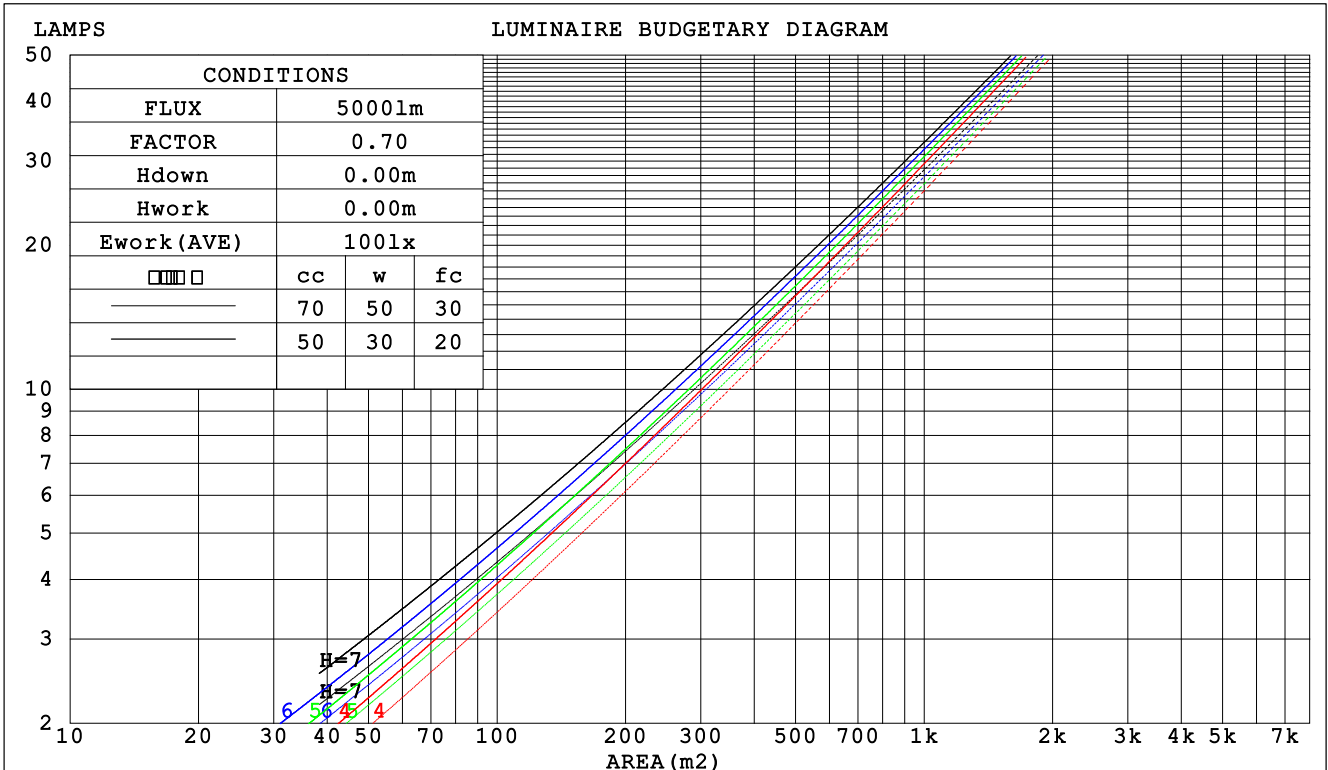
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-08-04

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks: PORTER

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:119.98V I:0.1169A P:13.842W PF:0.9516 Freq:59.98Hz Lamp Flux:1449.22x1 lm		
NAME: LED-6-S15W-5CCT-FG-WH	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.: Light by Lotus	SUR.:	Shielding Angle:

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.09	1.06	1.03	1.06	1.04	1.01	1.02	1.00	.98	.99	.97	.95	.95	.94	.92	.91
2.0	.99	.94	.90	.97	.93	.89	.94	.90	.87	.91	.88	.85	.88	.85	.83	.81
3.0	.91	.85	.80	.89	.84	.79	.86	.82	.78	.84	.80	.77	.81	.78	.75	.74
4.0	.83	.77	.72	.82	.76	.71	.80	.74	.70	.78	.73	.69	.76	.72	.69	.67
5.0	.77	.70	.65	.76	.69	.65	.74	.68	.64	.72	.67	.63	.71	.66	.63	.61
6.0	.71	.64	.59	.71	.64	.59	.69	.63	.59	.67	.62	.58	.66	.61	.58	.56
7.0	.67	.60	.55	.66	.59	.55	.65	.59	.54	.63	.58	.54	.62	.57	.54	.52
8.0	.62	.56	.51	.62	.55	.51	.61	.55	.50	.59	.54	.50	.58	.54	.50	.48
9.0	.59	.52	.47	.58	.52	.47	.57	.51	.47	.56	.51	.47	.55	.50	.47	.45
10.0	.55	.49	.44	.55	.49	.44	.54	.48	.44	.53	.48	.44	.52	.47	.44	.43



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-08-04

□ Range: 0 - 90DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks: PORTER

WEC AND CCEC

Test:U:119.98V I:0.1169A P:13.842W PF:0.9516 Freq:59.98Hz Lamp Flux:1449.22x1 lm		
NAME: LED-6-S15W-5CCT-FG-WH	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.: Light by Lotus	SUR.:	Shielding Angle:

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input type="checkbox"/> fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.218	.124	.039	.211	.120	.038	.198	.114	.036	.186	.107	.034	.175	.102	.033	
2.0	.209	.115	.035	.204	.112	.035	.193	.107	.033	.183	.102	.032	.173	.098	.031	
3.0	.198	.105	.032	.193	.103	.031	.184	.099	.030	.175	.096	.029	.167	.092	.029	
4.0	.187	.097	.028	.182	.095	.028	.174	.092	.028	.166	.089	.027	.159	.086	.026	
5.0	.176	.089	.026	.172	.088	.026	.164	.086	.025	.158	.083	.025	.151	.081	.024	
6.0	.165	.083	.024	.162	.082	.024	.156	.080	.023	.150	.078	.023	.144	.076	.023	
7.0	.156	.077	.022	.153	.076	.022	.148	.075	.021	.142	.073	.021	.137	.071	.021	
8.0	.148	.072	.020	.145	.071	.020	.140	.070	.020	.135	.069	.020	.131	.067	.020	
9.0	.140	.068	.019	.138	.067	.019	.133	.066	.019	.129	.065	.018	.125	.063	.018	
10.0	.133	.064	.018	.131	.063	.018	.127	.062	.018	.123	.061	.017	.119	.060	.017	

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input type="checkbox"/> fc	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	.174	.157	.142	.149	.135	.122	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.161	.132	.108	.138	.114	.093	.095	.079	.065	.055	.046	.038	.018	.015	.012	
3.0	.151	.114	.084	.129	.098	.073	.089	.068	.051	.051	.040	.030	.016	.013	.010	
4.0	.141	.100	.068	.121	.086	.059	.083	.060	.041	.048	.035	.024	.016	.011	.008	
5.0	.133	.088	.055	.114	.076	.048	.079	.053	.034	.046	.031	.020	.015	.010	.007	
6.0	.126	.079	.046	.108	.069	.040	.075	.048	.028	.043	.028	.017	.014	.009	.006	
7.0	.119	.072	.039	.103	.063	.034	.071	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.113	.066	.034	.098	.057	.029	.068	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.108	.061	.029	.093	.053	.025	.064	.037	.018	.038	.022	.011	.012	.007	.004	
10.0	.103	.057	.026	.089	.049	.022	.061	.035	.016	.036	.020	.010	.012	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-08-04

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks: PORTER

**UGR(Unified Glare Rating) Table**

Test:U:119.98V I:0.1169A P:13.842W PF:0.9516 Freq:59.98Hz Lamp Flux:1449.22x1 lm										
NAME: LED-6-S15W-5CCT-FG-WH					TYPE:			WEIGHT:		
SPEC.:4000K 90					DIM.:			SERIAL No.:		
MFR.: Light by Lotus					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	12.6	13.8	12.9	14.0	14.1	12.1	13.2	12.3	13.4	13.6
3H	13.2	14.3	13.5	14.5	14.7	12.6	13.7	12.9	13.9	14.1
4H	13.4	14.4	13.7	14.6	14.9	12.7	13.7	13.0	14.0	14.2
6H	13.5	14.4	13.8	14.7	14.9	12.7	13.7	13.1	13.9	14.2
8H	13.5	14.4	13.8	14.7	14.9	12.7	13.6	13.0	13.9	14.1
12H	13.5	14.3	13.8	14.6	14.9	12.7	13.5	13.0	13.8	14.1
4H 2H	12.8	13.8	13.1	14.0	14.3	12.3	13.3	12.6	13.6	13.8
3H	13.5	14.4	13.9	14.7	14.9	13.0	13.8	13.3	14.1	14.4
4H	13.8	14.6	14.1	14.9	15.2	13.2	14.0	13.5	14.3	14.6
6H	13.9	14.6	14.3	15.0	15.3	13.2	13.9	13.6	14.3	14.6
8H	14.0	14.6	14.4	15.0	15.3	13.2	13.8	13.6	14.2	14.6
12H	14.0	14.5	14.4	14.9	15.3	13.1	13.7	13.6	14.1	14.5
8H 4H	13.8	14.4	14.2	14.8	15.2	13.2	13.9	13.6	14.2	14.6
6H	14.0	14.5	14.5	14.9	15.4	13.3	13.8	13.7	14.2	14.6
8H	14.1	14.5	14.5	15.0	15.4	13.3	13.7	13.7	14.2	14.6
12H	14.1	14.5	14.5	14.9	15.4	13.2	13.6	13.7	14.1	14.5
12H 4H	13.8	14.3	14.2	14.7	15.1	13.2	13.8	13.6	14.2	14.6
6H	14.0	14.5	14.4	14.9	15.3	13.3	13.7	13.7	14.2	14.6
8H	14.1	14.4	14.5	14.9	15.4	13.3	13.6	13.7	14.1	14.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.8					+ 0.7 / - 1.0				
1.5H	+ 0.6 / - 0.5					+ 0.6 / - 0.6				
2.0H	+ 1.4 / - 1.2					+ 1.5 / - 1.2				

CIE Pub.117, 1449 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.3)  
 Area: 0.111111 m2

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-08-04

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks: PORTER

**UTILIZATION FACTORS TABLE**

Test:U:119.98V I:0.1169A P:13.842W PF:0.9516 Freq:59.98Hz Lamp Flux:1449.22x1 lm		
NAME: LED-6-S15W-5CCT-FG-WH	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.: Light by Lotus	SUR.:	Shielding Angle:

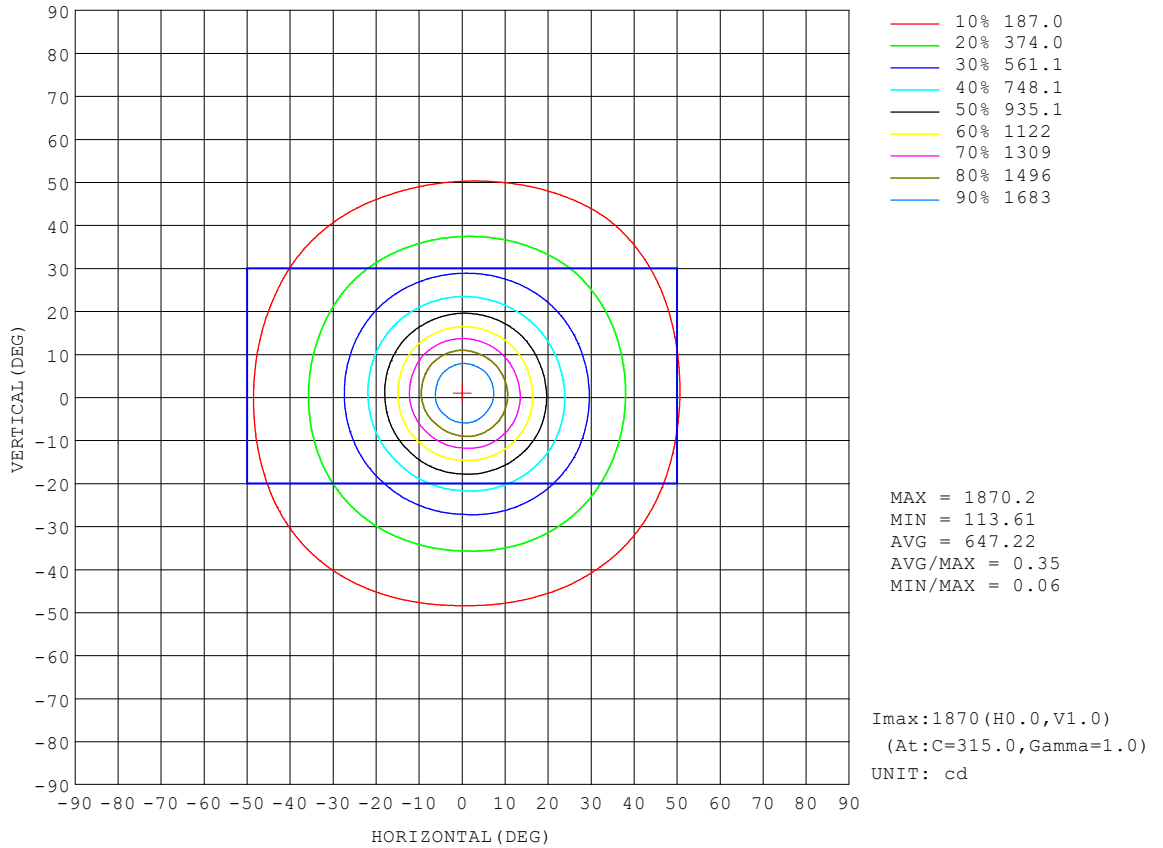
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	74	65	60	73	65	60	72	65	60	55
0.80	83	75	69	82	74	69	81	74	69	64
1.00	90	82	77	89	81	76	87	82	76	70
1.25	95	88	83	94	87	82	92	86	82	76
1.50	99	92	87	97	91	87	95	90	86	80
2.00	103	98	93	102	96	92	99	94	91	85
2.50	106	101	97	104	99	96	101	97	94	87
3.00	108	104	100	106	102	99	103	99	97	89
4.00	111	107	104	109	105	103	105	102	100	92
5.00	113	109	107	110	107	105	106	104	102	94
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:  
 Test Date:2021-08-04

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks: PORTER

**ISOCANDELA DIAGRAM**

Test:U:119.98V I:0.1169A P:13.842W PF:0.9516 Freq:59.98Hz Lamp Flux:1449.22x1 lm		
NAME: LED-6-S15W-5CCT-FG-WH	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.: Light by Lotus	SUR.:	Shielding Angle:



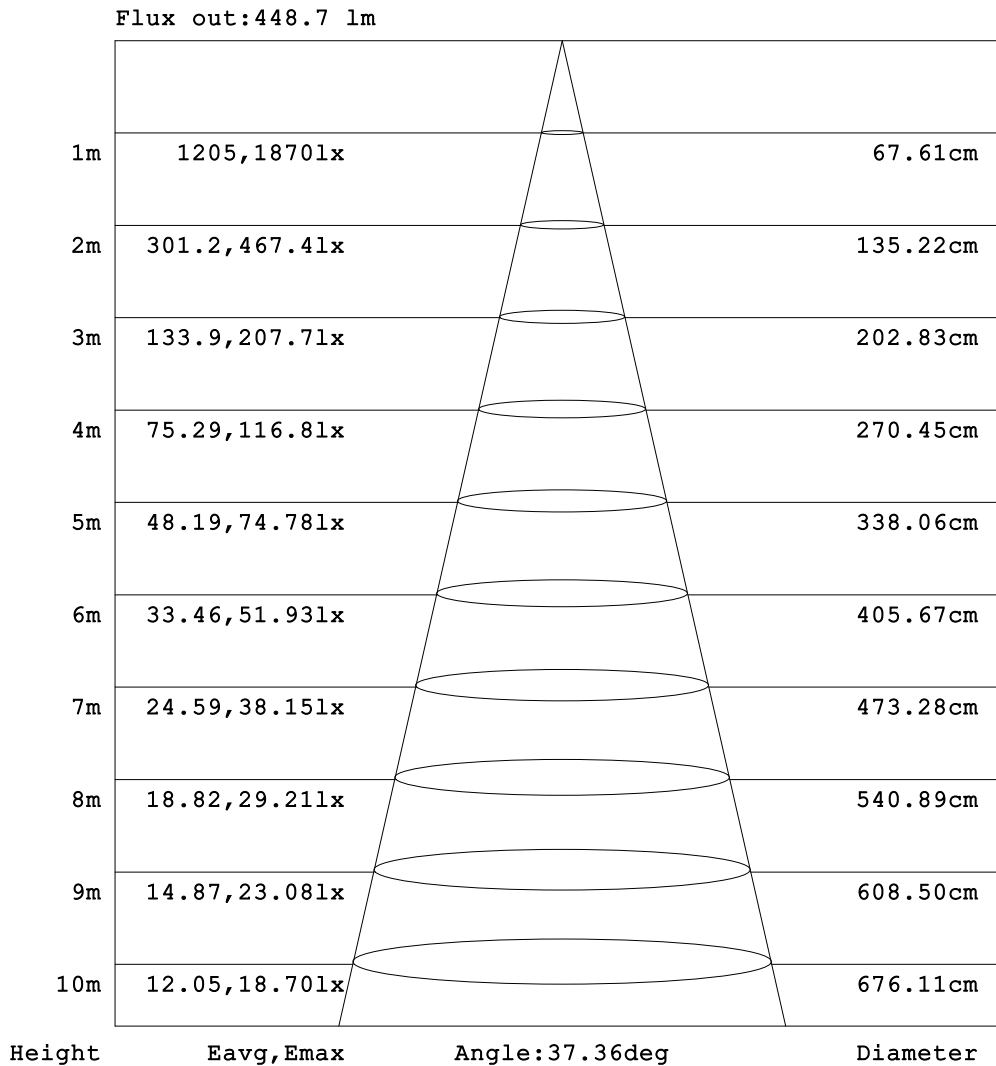
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-08-04

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks: PORTER



**AAI Figure**

Test:U:119.98V I:0.1169A P:13.842W PF:0.9516 Freq:59.98Hz Lamp Flux:1449.22x1 lm		
NAME: LED-6-S15W-5CCT-FG-WH	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.: Light by Lotus	SUR.:	Shielding Angle:



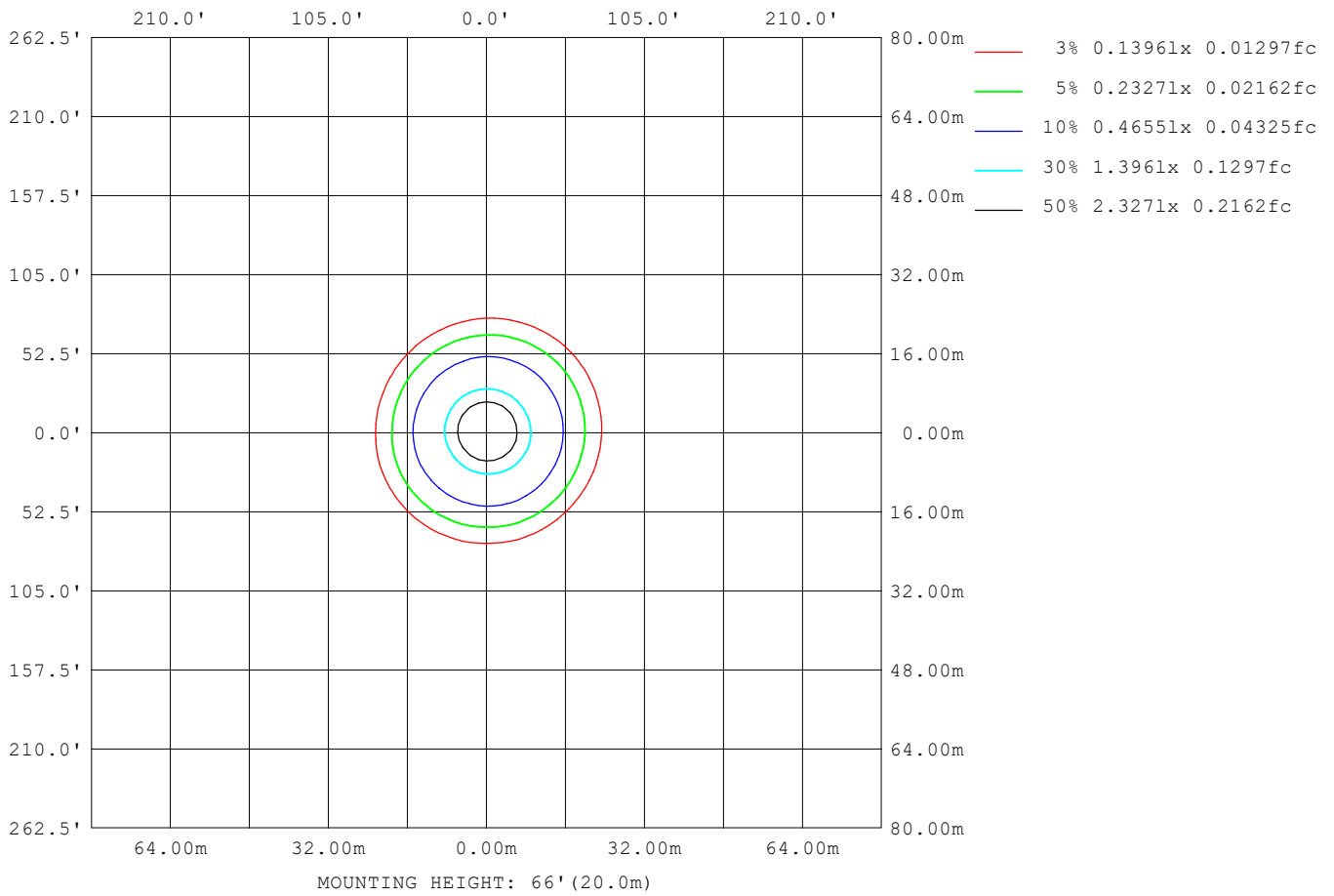
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-08-04

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks: PORTER

**ISOLUX DIAGRAM**

Test:U:119.98V I:0.1169A P:13.842W PF:0.9516 Freq:59.98Hz Lamp Flux:1449.22x1 lm		
NAME: LED-6-S15W-5CCT-FG-WH	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.: Light by Lotus	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-08-04

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks: PORTER

**LED Avg.L Report**

Test:U:119.98V I:0.1169A P:13.842W PF:0.9516 Freq:59.98Hz Lamp Flux:1449.22x1 lm		
NAME: LED-6-S15W-5CCT-FG-WH	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.: Light by Lotus	SUR.:	Shielding Angle:

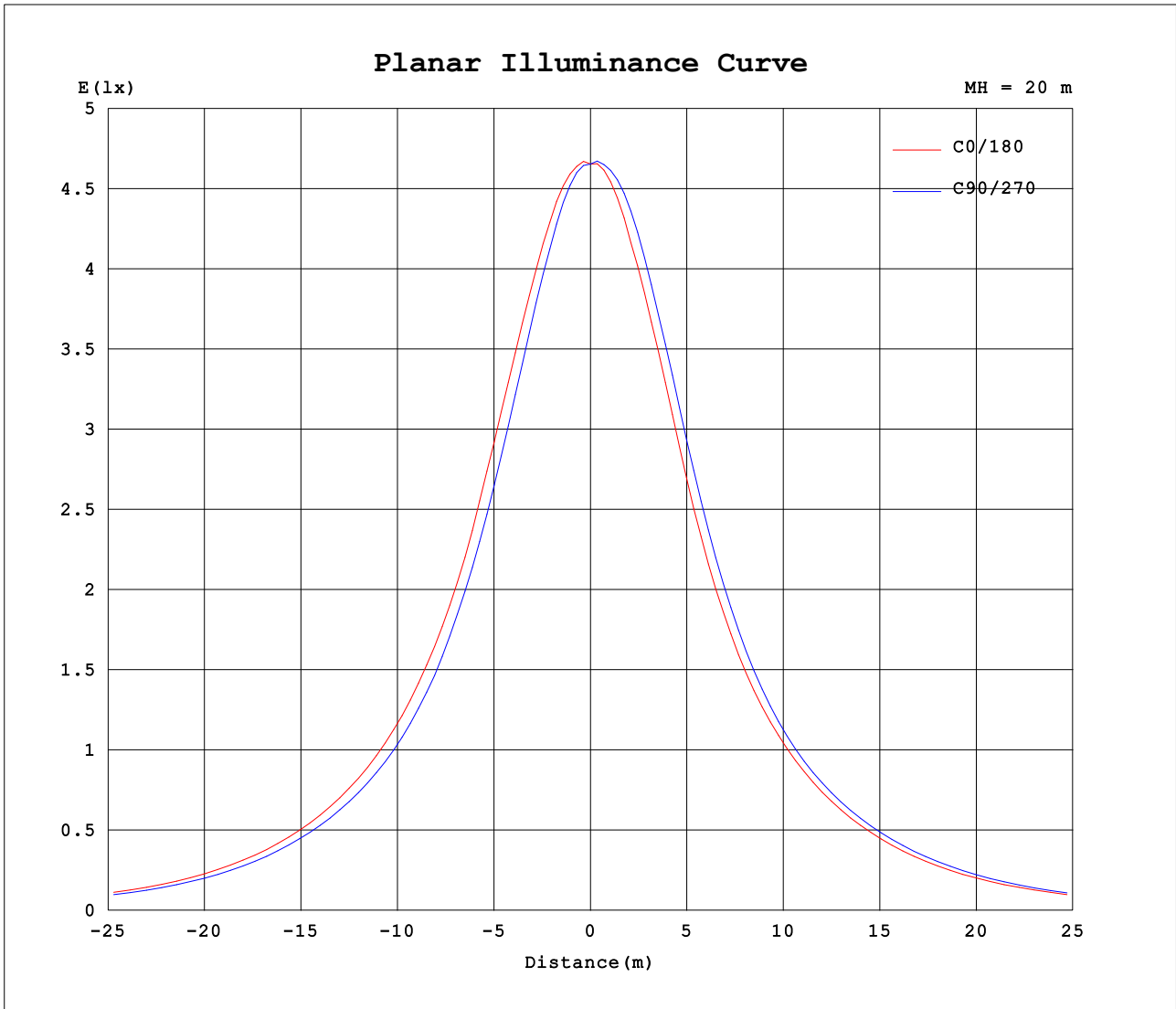
AvgL	cd/m2
L_0~180 (65) av	1428
L_0~180 (75) av	921
L_0~180 (85) av	345
L_90~270 (65) av	1398
L_90~270 (75) av	886
L_90~270 (85) av	76
L_45 (65) av	1406
L_45 (75) av	906
L_45 (85) av	197

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-08-04

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks: PORTER

**Planar Illuminance Curve**



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-08-04

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks: PORTER

