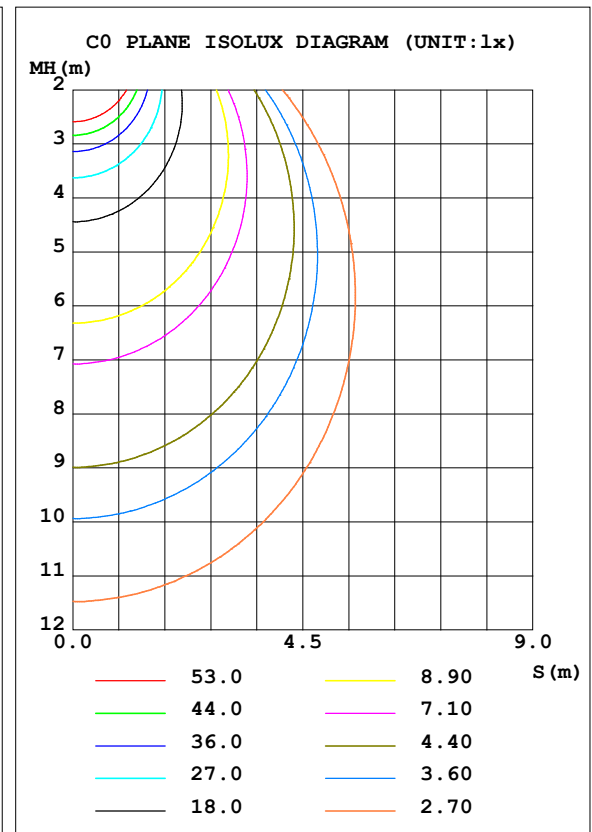
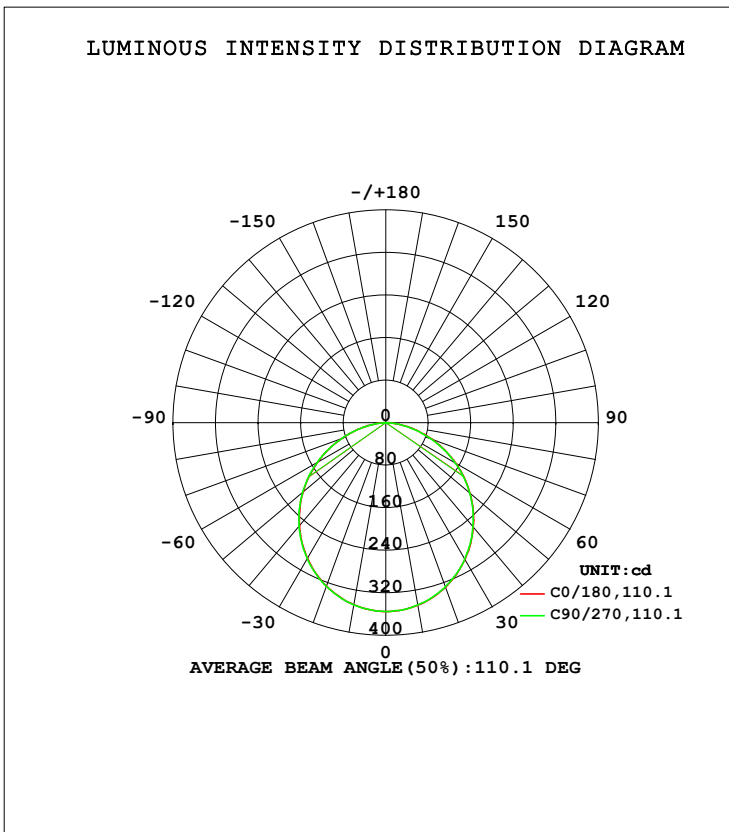


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:119.95V I:0.1336A P:11.640W PF:0.9497 Freq:59.98Hz Lamp Flux:983.076x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:5000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		Imax (cd)	355.5	S/MH (C0/180)	1.24
NOMINAL POWER (W)	12	LOR (%)	100.0	S/MH (C90/270)	1.24
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	983.08	<input type="checkbox"/> UP, DN (C0-180)	0.0, 50.3
NOMINAL FLUX (lm)	983.076	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.0, 49.7
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	<input type="checkbox"/> down (%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2021-12-30

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:

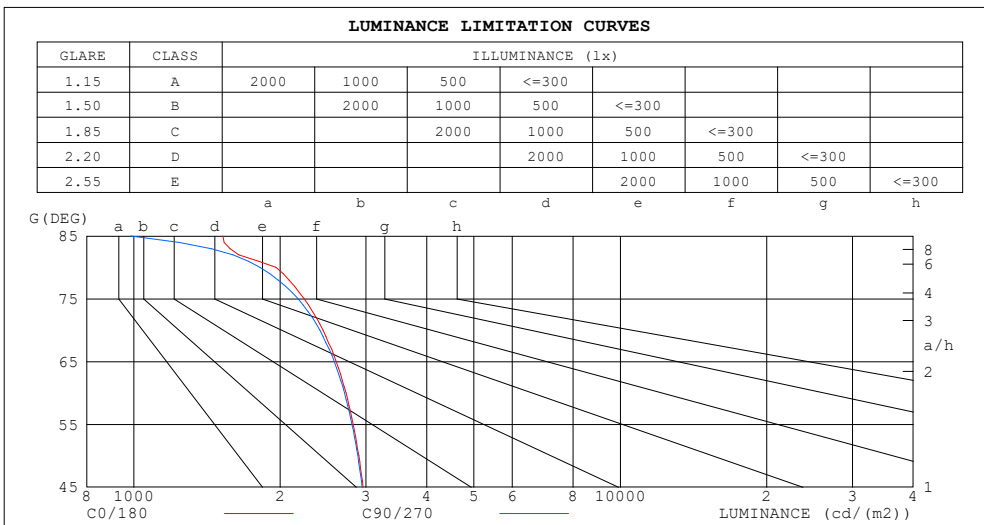
mm	C0	C45	C90	C135	C180	C225	C270	C315	mm	□ zone	□ total	%lum, lamp
10	348.7	348.7	348.1	348.1	347.6	347.4	347.8	348.5	0- 10	33.56	33.56	3.41,3.41
20	329.1	329.4	328.5	327.7	326.8	327.3	327.6	328.6	10- 20	95.81	129.4	13.2,13.2
30	297.6	298.3	296.9	295.8	294.6	295.5	295.5	297.0	20- 30	144.5	273.8	27.9,27.9
40	256.4	257.5	255.4	254.0	252.6	253.7	253.7	255.6	30- 40	173.0	446.9	45.5,45.5
50	207.0	208.4	206.2	204.6	203.2	204.3	204.4	206.8	40- 50	178.2	625.0	63.6,63.6
60	151.7	153.1	150.6	149.2	147.3	148.6	148.3	151.1	50- 60	159.3	784.4	79.8,79.8
70	93.02	94.48	91.71	90.20	88.45	89.72	88.76	91.49	60- 70	119.2	903.6	91.9,91.9
80	37.83	38.01	35.07	34.09	34.22	34.02	32.78	35.15	70- 80	65.69	969.3	98.6,98.6
90	0.1775	0.1715	0.1649	0.1714	0.2966	0.2967	0.2860	0.2867	80- 90	13.81	983.1	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:2021-12-30

□ 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:119.95V I:0.1336A P:11.640W PF:0.9497 Freq:59.98Hz Lamp Flux:983.076x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:5000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1525	986
80	1961	1818
75	2240	2176
70	2449	2413
65	2606	2583
60	2732	2712
55	2826	2808
50	2900	2887
45	2961	2948

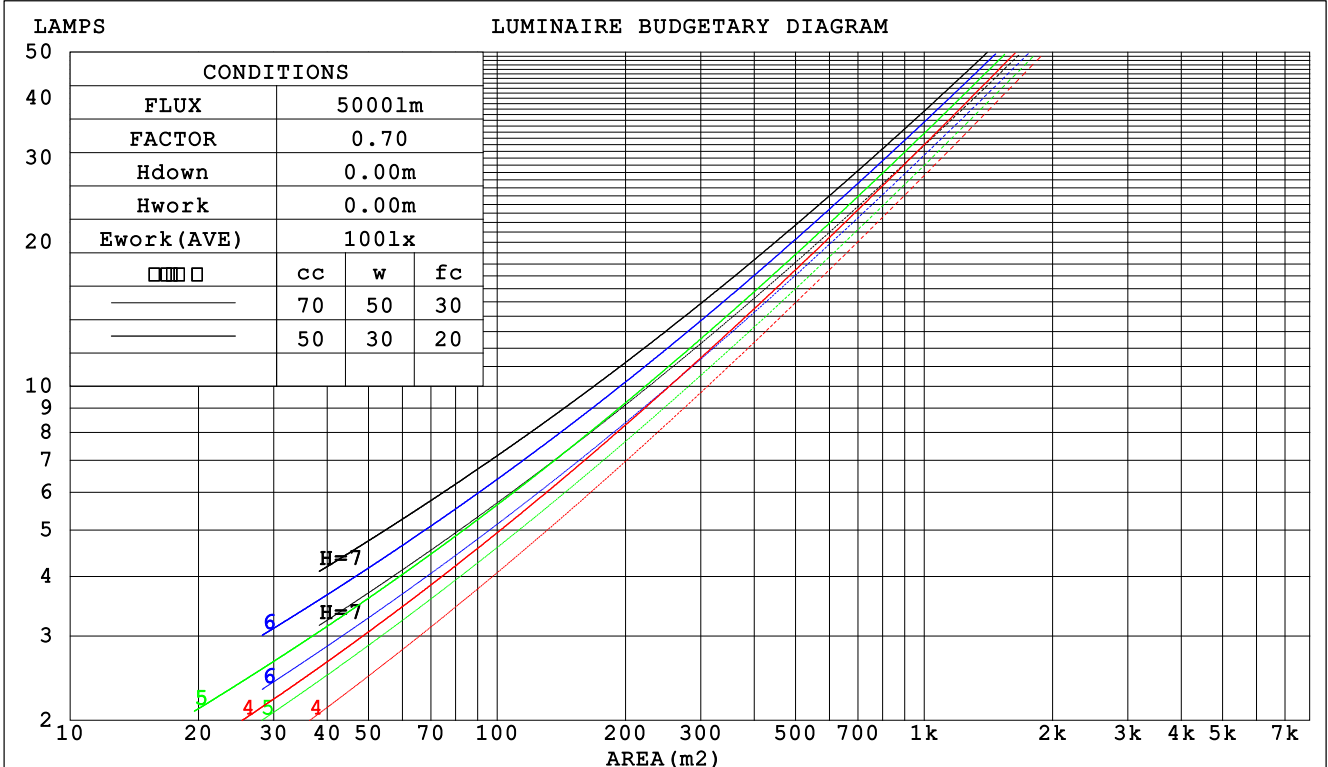
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-12-30

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:119.95V I:0.1336A P:11.640W PF:0.9497 Freq:59.98Hz Lamp Flux:983.076x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:5000K 80	DIM.:	SERIAL No.:
MFR.:	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	1.04	1.00	.96	1.02	.98	.95	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84
2.0	.91	.84	.78	.89	.83	.78	.85	.80	.76	.82	.78	.74	.79	.76	.72	.70
3.0	.80	.72	.65	.78	.71	.65	.75	.69	.64	.73	.67	.62	.70	.65	.61	.59
4.0	.71	.62	.55	.69	.61	.55	.67	.60	.54	.65	.58	.53	.62	.57	.53	.51
5.0	.63	.54	.48	.62	.54	.47	.60	.53	.47	.58	.51	.46	.56	.50	.46	.44
6.0	.57	.48	.42	.56	.48	.41	.54	.47	.41	.52	.46	.41	.51	.45	.40	.38
7.0	.52	.43	.37	.51	.42	.37	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.39	.33	.46	.38	.33	.45	.38	.32	.44	.37	.32	.43	.37	.32	.30
9.0	.43	.35	.29	.43	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.37	.31	.26	.25



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-12-30

□ 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:119.95V I:0.1336A P:11.640W PF:0.9497 Freq:59.98Hz Lamp Flux:983.076x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:5000K 80	DIM.:	SERIAL No.:
MFR.:	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	.302 .172 .054	.295 .168 .054	.282 .162 .052	.270 .156 .050	.259 .150 .048	
2.0	.287 .157 .048	.281 .155 .048	.269 .150 .046	.258 .145 .045	.248 .141 .044	
3.0	.267 .142 .043	.261 .140 .042	.251 .136 .041	.241 .132 .041	.232 .129 .040	
4.0	.247 .128 .038	.242 .127 .037	.233 .123 .037	.224 .120 .036	.216 .118 .036	
5.0	.228 .116 .034	.224 .115 .034	.216 .112 .033	.208 .110 .033	.201 .108 .032	
6.0	.212 .106 .030	.208 .105 .030	.201 .103 .030	.194 .101 .030	.188 .099 .029	
7.0	.198 .098 .028	.194 .097 .028	.188 .095 .027	.182 .093 .027	.176 .091 .027	
8.0	.185 .090 .025	.182 .089 .025	.176 .088 .025	.170 .086 .025	.165 .085 .025	
9.0	.173 .084 .023	.170 .083 .023	.165 .082 .023	.160 .080 .023	.156 .079 .023	
10.0	.163 .078 .022	.160 .077 .022	.156 .076 .021	.151 .075 .021	.147 .074 .021	

<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	.180 .156 .135	.154 .134 .116	.105 .092 .080	.061 .053 .047	.019 .017 .015	
2.0	.172 .132 .099	.147 .114 .085	.101 .079 .059	.058 .046 .035	.019 .015 .011	
3.0	.164 .114 .075	.140 .099 .065	.096 .068 .045	.056 .040 .027	.018 .013 .009	
4.0	.156 .101 .059	.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	.122 .064 .025	.106 .056 .022	.073 .039 .016	.043 .023 .009	.014 .008 .003	
10.0	.117 .060 .023	.101 .052 .020	.070 .037 .014	.041 .022 .008	.013 .007 .003	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-12-30

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:119.95V I:0.1336A P:11.640W PF:0.9497 Freq:59.98Hz Lamp Flux:983.076x1 lm										
NAME: LED-6-S12W-5CCTWH-SQ					TYPE:			WEIGHT:		
SPEC.:5000K 80					DIM.:			SERIAL No.:		
MFR.:					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	16.6	18.1	16.9	18.3	18.5	16.6	18.1	16.9	18.3	18.5
3H	18.1	19.5	18.4	19.7	20.0	18.1	19.5	18.4	19.7	19.9
4H	18.7	20.0	19.0	20.2	20.5	18.6	19.9	18.9	20.2	20.4
6H	19.0	20.3	19.4	20.6	20.8	19.0	20.2	19.3	20.5	20.8
8H	19.1	20.3	19.5	20.6	20.9	19.1	20.3	19.4	20.5	20.8
12H	19.2	20.3	19.5	20.6	20.9	19.1	20.2	19.4	20.5	20.8
4H 2H	17.2	18.5	17.5	18.8	19.1	17.2	18.5	17.5	18.8	19.0
3H	18.9	20.0	19.2	20.3	20.6	18.9	20.0	19.2	20.3	20.6
4H	19.6	20.6	20.0	21.0	21.3	19.5	20.6	19.9	20.9	21.3
6H	20.1	21.0	20.5	21.4	21.7	20.0	21.0	20.4	21.3	21.7
8H	20.2	21.1	20.6	21.4	21.8	20.1	21.0	20.6	21.4	21.8
12H	20.3	21.1	20.7	21.5	21.9	20.2	21.0	20.6	21.4	21.8
8H 4H	19.8	20.7	20.2	21.1	21.5	19.8	20.7	20.2	21.0	21.4
6H	20.5	21.2	20.9	21.6	22.0	20.4	21.1	20.9	21.5	22.0
8H	20.6	21.3	21.1	21.7	22.1	20.6	21.3	21.1	21.7	22.1
12H	20.7	21.3	21.2	21.7	22.2	20.7	21.3	21.2	21.7	22.2
12H 4H	19.8	20.6	20.3	21.0	21.4	19.8	20.6	20.2	21.0	21.4
6H	20.5	21.1	21.0	21.6	22.0	20.5	21.1	20.9	21.5	22.0
8H	20.7	21.2	21.2	21.7	22.2	20.7	21.2	21.2	21.7	22.2
Variations with the observer position at spacings:										
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, 983.1 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:25.3DEG  
 Operators:  
 Test Date:2021-12-30

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:119.95V I:0.1336A P:11.640W PF:0.9497 Freq:59.98Hz Lamp Flux:983.076x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:5000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

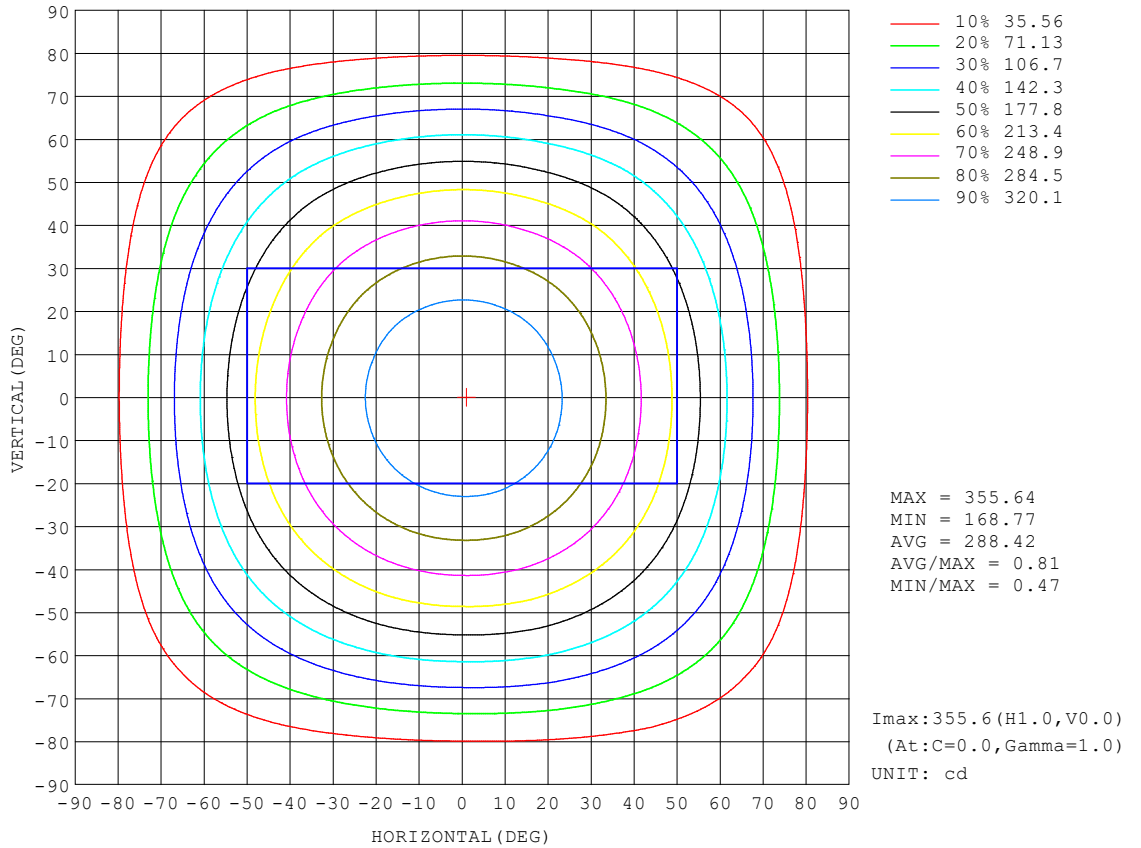
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	46	39	33
0.80	68	57	49	67	56	49	65	55	49	42
1.00	76	65	58	75	65	58	73	66	57	50
1.25	84	73	66	82	73	66	79	71	65	58
1.50	89	79	72	87	78	71	84	76	70	63
2.00	95	87	81	94	86	80	90	84	78	71
2.50	99	92	86	97	90	85	93	88	83	75
3.00	103	96	90	100	94	89	96	91	87	79
4.00	107	101	96	104	99	95	100	96	92	84
5.00	109	104	100	107	102	99	102	99	96	87
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:2021-12-30

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:119.95V I:0.1336A P:11.640W PF:0.9497 Freq:59.98Hz Lamp Flux:983.076x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:5000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



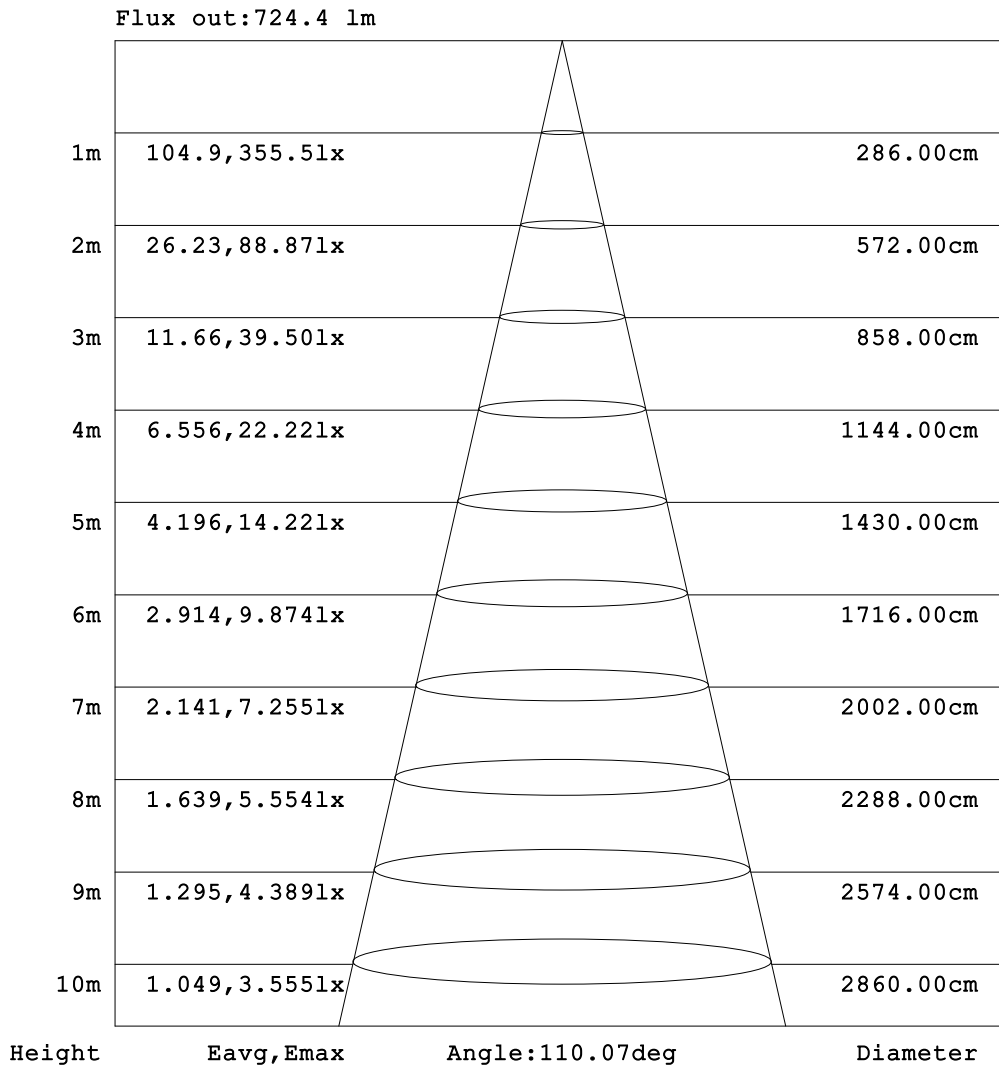
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-12-30

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:119.95V I:0.1336A P:11.640W PF:0.9497 Freq:59.98Hz Lamp Flux:983.076x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:5000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



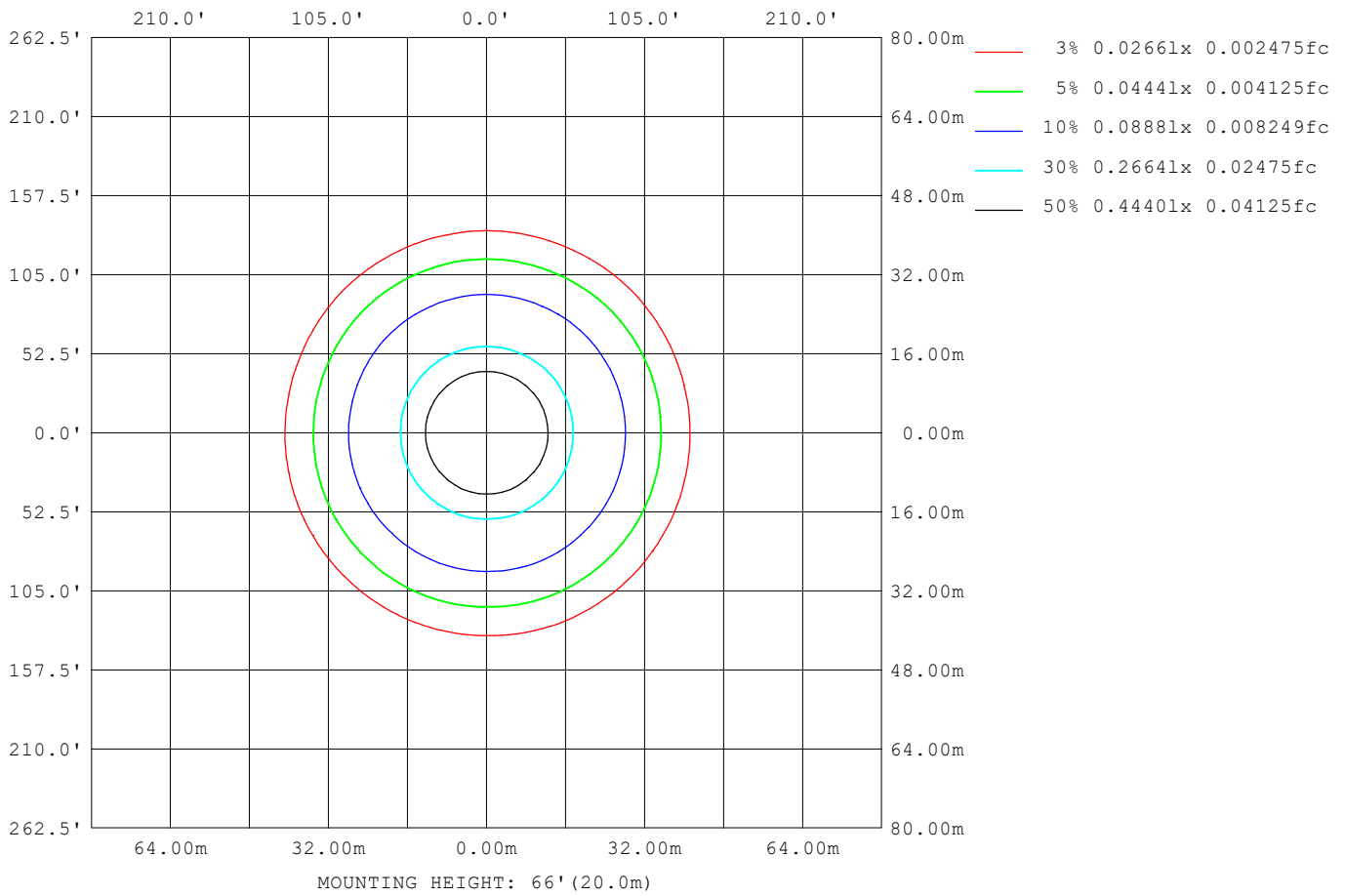
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-12-30

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:119.95V I:0.1336A P:11.640W PF:0.9497 Freq:59.98Hz Lamp Flux:983.076x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:5000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-12-30

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:119.95V I:0.1336A P:11.640W PF:0.9497 Freq:59.98Hz Lamp Flux:983.076x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:5000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

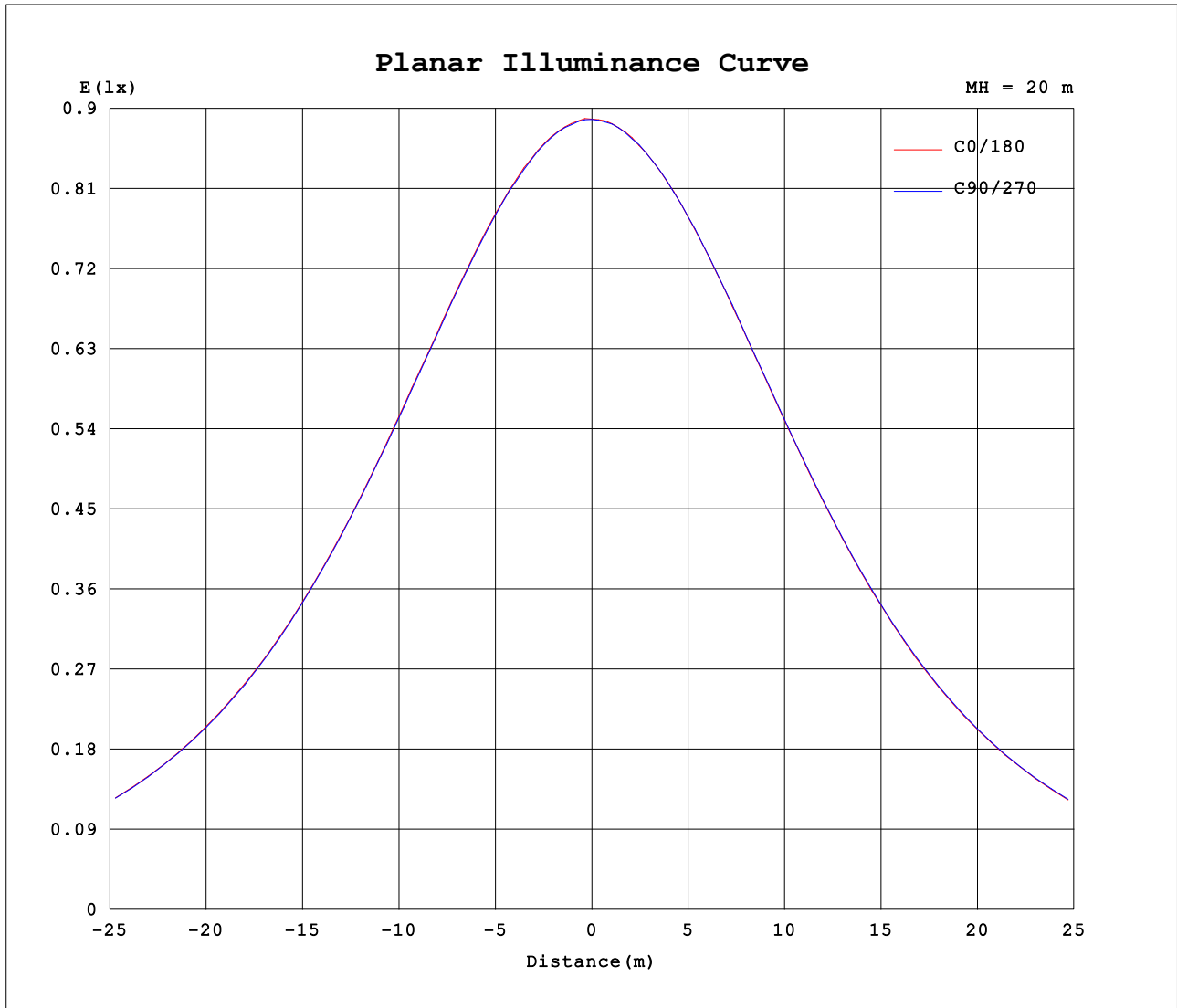
AvgL	cd/m2
L_0~180 (65) av	2557
L_0~180 (75) av	2164
L_0~180 (85) av	1385
L_90~270 (65) av	2554
L_90~270 (75) av	2126
L_90~270 (85) av	852
L_45 (65) av	2579
L_45 (75) av	2168
L_45 (85) av	1191

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-12-30

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: 2021-12-30

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

