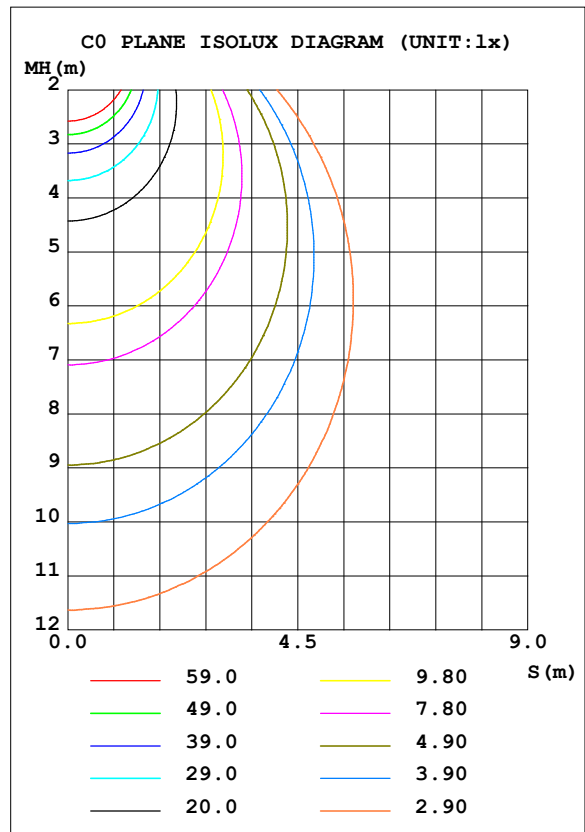
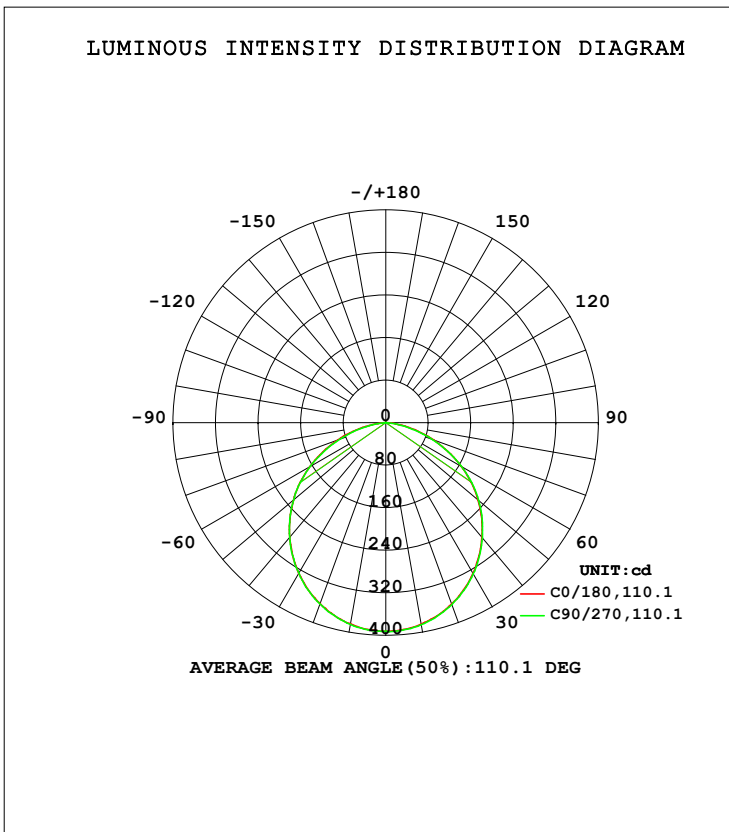


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.96V I:0.1309A P:11.324W PF:0.9519 Freq:59.98Hz Lamp Flux:1068.52x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:4000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 94.36 lm/W			
MODEL		I _{max} (cd)	393.2	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)	1068.5	<input type="checkbox"/> UP, DN (C0-180)	0.0, 50.1
NOMINAL FLUX (lm)	1068.52	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.0, 49.9
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:

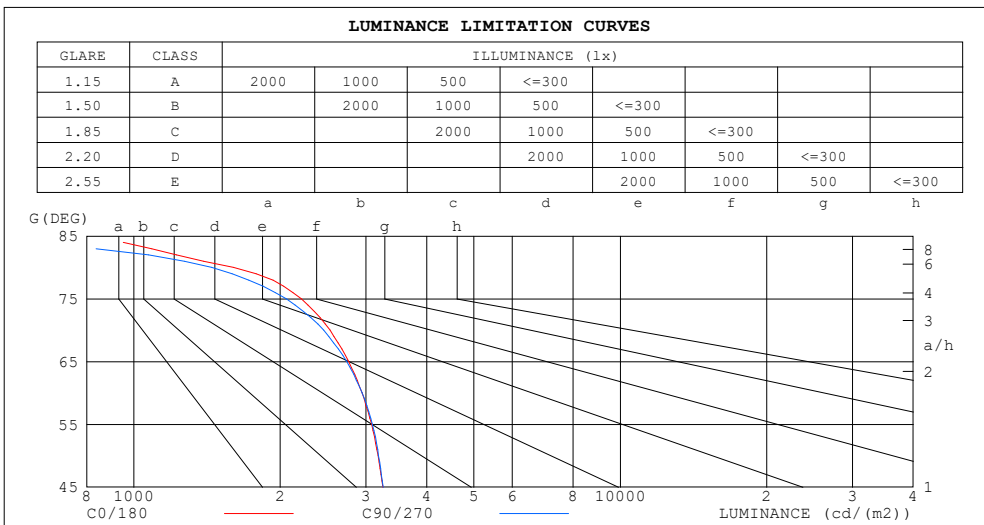
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	384.8	385.0	385.8	384.6	384.1	384.6	384.8	383.8	0- 10	37.08	37.08	3.47,3.47
20	362.9	362.9	364.2	362.4	362.3	362.3	362.9	362.3	10- 20	105.9	143.0	13.4,13.4
30	327.4	327.6	328.4	326.8	327.2	326.8	327.1	326.5	20- 30	159.6	302.6	28.3,28.3
40	281.5	282.2	283.0	281.3	281.1	281.1	281.6	281.0	30- 40	191.1	493.7	46.2,46.2
50	226.8	227.6	227.9	226.7	226.8	226.9	226.9	226.5	40- 50	196.7	690.5	64.6,64.6
60	163.7	164.8	164.1	163.8	164.2	164.2	163.3	163.2	50- 60	175.5	865.9	81,81
70	96.16	95.96	93.56	94.96	96.81	95.45	92.41	94.24	60- 70	128.1	994.0	93,93
80	30.89	31.15	27.94	30.27	32.02	30.61	26.84	29.74	70- 80	64.93	1059	99.1,99.1
90	0.1665	0.1595	0.1525	0.1558	0.2763	0.2743	0.2623	0.2716	80- 90	9.582	1069	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:119.96V I:0.1309A P:11.324W PF:0.9519 Freq:59.98Hz Lamp Flux:1068.52x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:4000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	767	246
80	1601	1445
75	2208	2057
70	2530	2457
65	2766	2739
60	2946	2948
55	3082	3093
50	3176	3183
45	3250	3256

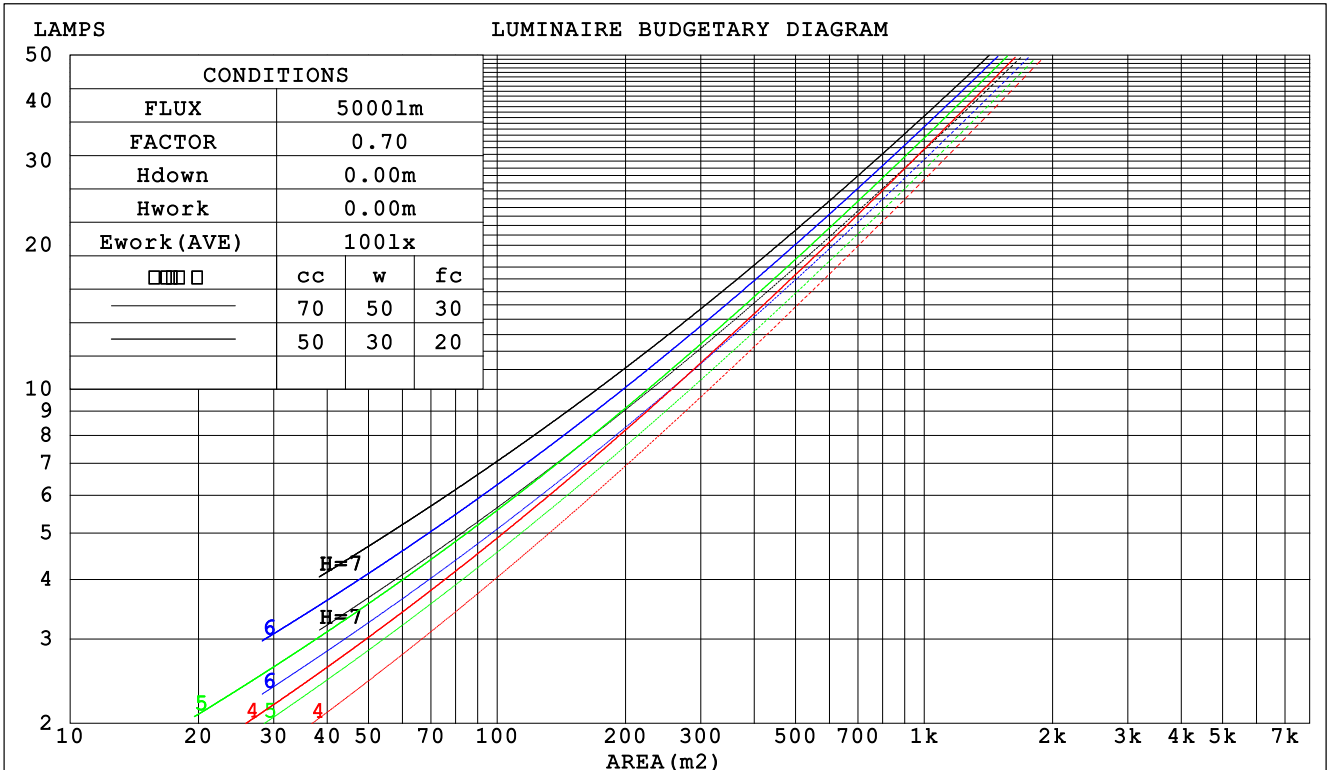
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-12-30

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:119.96V I:0.1309A P:11.324W PF:0.9519 Freq:59.98Hz Lamp Flux:1068.52x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:4000K 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	1.05	1.01	.97	1.02	.99	.95	.98	.95	.92	.94	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.79	.90	.84	.78	.86	.81	.77	.83	.79	.75	.80	.76	.73	.71
3.0	.80	.72	.66	.79	.71	.65	.76	.70	.64	.73	.68	.63	.71	.66	.62	.60
4.0	.71	.63	.56	.70	.62	.56	.68	.60	.55	.65	.59	.54	.63	.58	.53	.51
5.0	.64	.55	.48	.63	.54	.48	.61	.53	.48	.59	.52	.47	.57	.51	.46	.44
6.0	.57	.49	.42	.56	.48	.42	.55	.47	.42	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.50	.42	.37	.48	.42	.37	.47	.41	.36	.34
8.0	.48	.39	.33	.47	.39	.33	.45	.38	.33	.44	.38	.33	.43	.37	.33	.31
9.0	.44	.35	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.29	.28
10.0	.40	.32	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.27	.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:119.96V I:0.1309A P:11.324W PF:0.9519 Freq:59.98Hz Lamp Flux:1068.52x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:4000K 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	.294 .167 .053	.287 .164 .052	.274 .157 .050	.261 .151 .048	.250 .145 .047	
2.0	.282 .154 .047	.275 .152 .047	.264 .147 .046	.253 .142 .044	.243 .138 .043	
3.0	.263 .140 .042	.257 .138 .042	.247 .134 .041	.238 .130 .040	.229 .127 .039	
4.0	.244 .127 .037	.239 .125 .037	.230 .122 .036	.222 .119 .036	.214 .116 .035	
5.0	.226 .115 .033	.222 .114 .033	.214 .111 .033	.207 .109 .032	.200 .107 .032	
6.0	.211 .106 .030	.207 .104 .030	.200 .102 .030	.193 .100 .029	.187 .098 .029	
7.0	.196 .097 .028	.193 .096 .027	.187 .094 .027	.181 .093 .027	.175 .091 .027	
8.0	.184 .090 .025	.181 .089 .025	.175 .087 .025	.169 .086 .025	.164 .084 .025	
9.0	.172 .083 .023	.170 .083 .023	.164 .081 .023	.160 .080 .023	.155 .079 .023	
10.0	.162 .078 .022	.160 .077 .022	.155 .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	.179 .156 .136	.153 .134 .117	.105 .092 .081	.060 .053 .047	.019 .017 .015	
2.0	.171 .132 .099	.146 .114 .086	.100 .079 .060	.058 .046 .035	.019 .015 .011	
3.0	.163 .114 .075	.140 .099 .065	.096 .068 .046	.055 .040 .027	.018 .013 .009	
4.0	.156 .101 .059	.133 .087 .051	.092 .061 .036	.053 .036 .021	.017 .012 .007	
5.0	.148 .090 .048	.127 .078 .042	.088 .055 .029	.051 .032 .017	.016 .010 .006	
6.0	.141 .082 .040	.121 .071 .034	.084 .050 .024	.049 .029 .014	.016 .010 .005	
7.0	.134 .075 .034	.116 .065 .029	.080 .046 .021	.046 .027 .012	.015 .009 .004	
8.0	.128 .069 .029	.110 .060 .025	.076 .042 .018	.044 .025 .011	.014 .008 .004	
9.0	.122 .064 .025	.105 .056 .022	.073 .039 .016	.042 .023 .009	.014 .008 .003	
10.0	.117 .060 .023	.100 .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:119.96V I:0.1309A P:11.324W PF:0.9519 Freq:59.98Hz Lamp Flux:1068.52x1 lm										
NAME: LED-6-S12W-5CCTWH-R-BF					TYPE:			WEIGHT:		
SPEC.:4000K 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	18.0	19.4	18.3	19.6	19.8	17.9	19.3	18.2	19.5	19.8
4H	18.5	19.8	18.8	20.0	20.3	18.4	19.7	18.7	19.9	20.2
6H	18.7	20.0	19.1	20.2	20.5	18.6	19.8	18.9	20.1	20.4
8H	18.7	19.9	19.1	20.2	20.5	18.6	19.8	18.9	20.1	20.4
12H	18.7	19.9	19.1	20.2	20.5	18.5	19.7	18.9	20.0	20.3
4H 2H	17.2	18.5	17.5	18.7	19.0	17.2	18.5	17.5	18.7	19.0
3H	18.7	19.9	19.1	20.2	20.5	18.7	19.8	19.0	20.1	20.4
4H	19.3	20.4	19.7	20.7	21.0	19.2	20.3	19.6	20.6	20.9
6H	19.7	20.6	20.1	21.0	21.3	19.5	20.4	19.9	20.8	21.2
8H	19.7	20.6	20.1	20.9	21.3	19.5	20.4	20.0	20.8	21.2
12H	19.7	20.5	20.1	20.9	21.3	19.5	20.3	19.9	20.7	21.1
8H 4H	19.5	20.4	19.9	20.7	21.1	19.4	20.3	19.8	20.6	21.0
6H	20.0	20.7	20.4	21.1	21.5	19.8	20.5	20.2	20.9	21.3
8H	20.0	20.7	20.5	21.1	21.5	19.9	20.5	20.3	20.9	21.4
12H	20.0	20.6	20.5	21.0	21.5	19.9	20.4	20.3	20.9	21.3
12H 4H	19.5	20.3	19.9	20.7	21.1	19.4	20.2	19.8	20.6	21.0
6H	20.0	20.6	20.4	21.0	21.5	19.8	20.4	20.3	20.9	21.3
8H	20.1	20.6	20.5	21.0	21.5	19.9	20.4	20.4	20.9	21.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				

CIE Pub.117, 1069 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.2)
 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:119.96V I:0.1309A P:11.324W PF:0.9519 Freq:59.98Hz Lamp Flux:1068.52x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:4000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

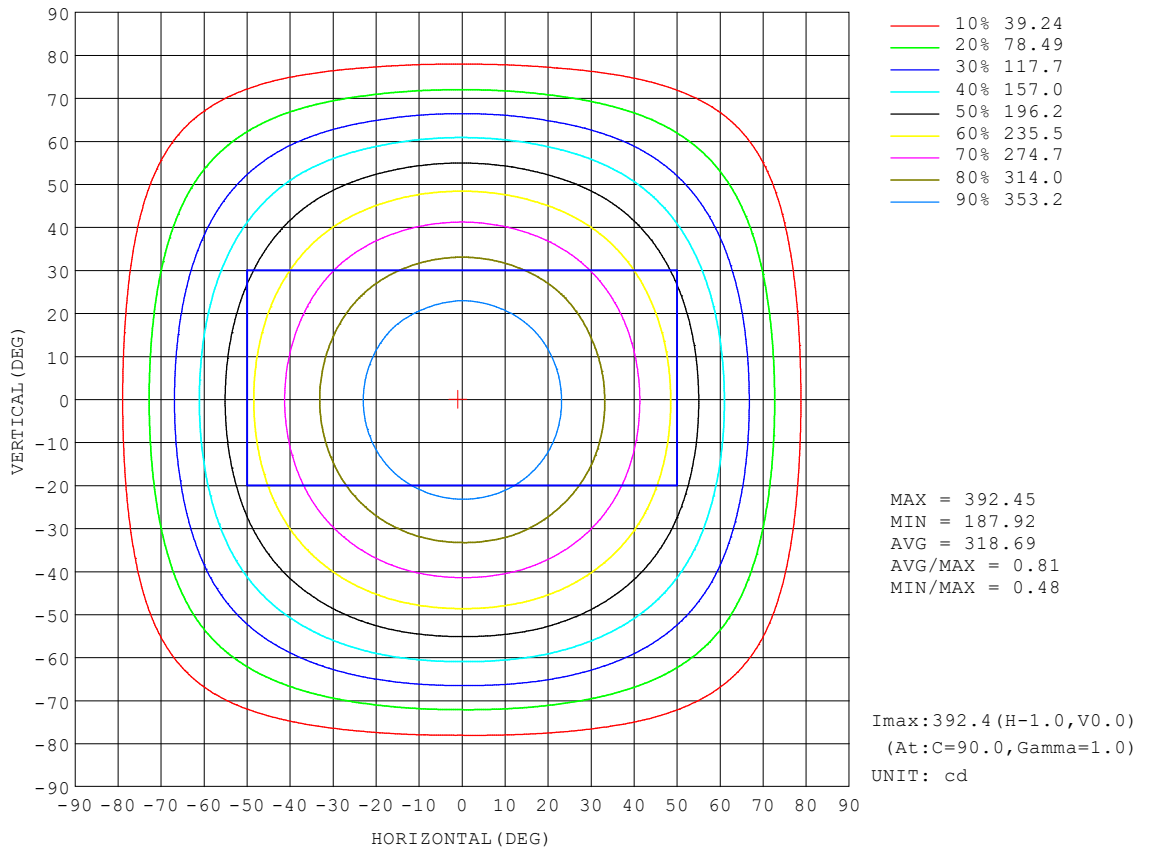
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	58	47	40	56	46	40	33
0.80	68	57	50	67	57	50	66	56	49	42
1.00	77	66	59	76	66	59	74	67	58	51
1.25	84	74	67	83	73	67	80	72	66	59
1.50	89	80	73	87	79	72	84	77	71	64
2.00	96	88	81	94	86	81	91	84	79	72
2.50	100	92	86	98	91	86	94	88	84	76
3.00	103	96	91	101	95	90	97	92	88	80
4.00	107	102	97	105	100	96	100	96	93	84
5.00	109	105	101	107	103	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:119.96V I:0.1309A P:11.324W PF:0.9519 Freq:59.98Hz Lamp Flux:1068.52x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:4000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

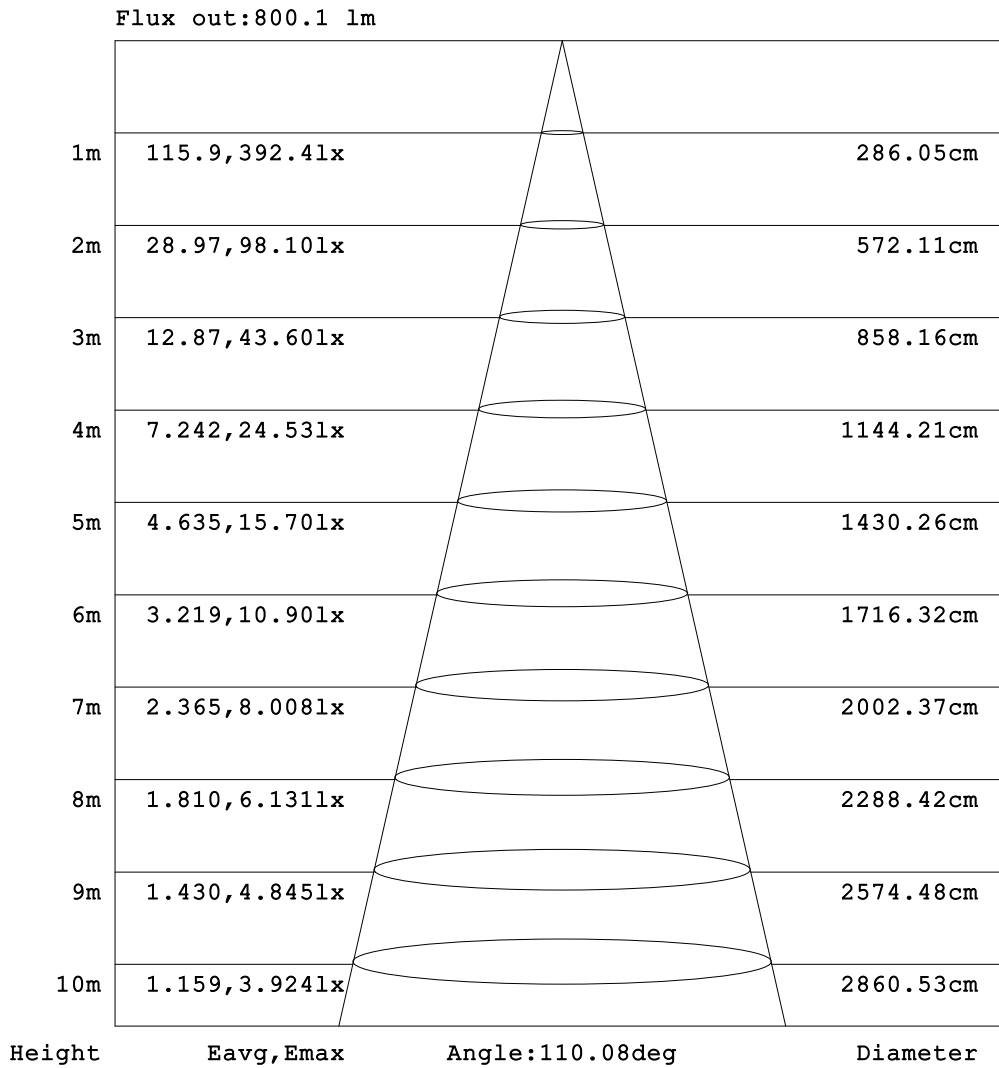


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-12-30

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:119.96V I:0.1309A P:11.324W PF:0.9519 Freq:59.98Hz Lamp Flux:1068.52x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:4000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



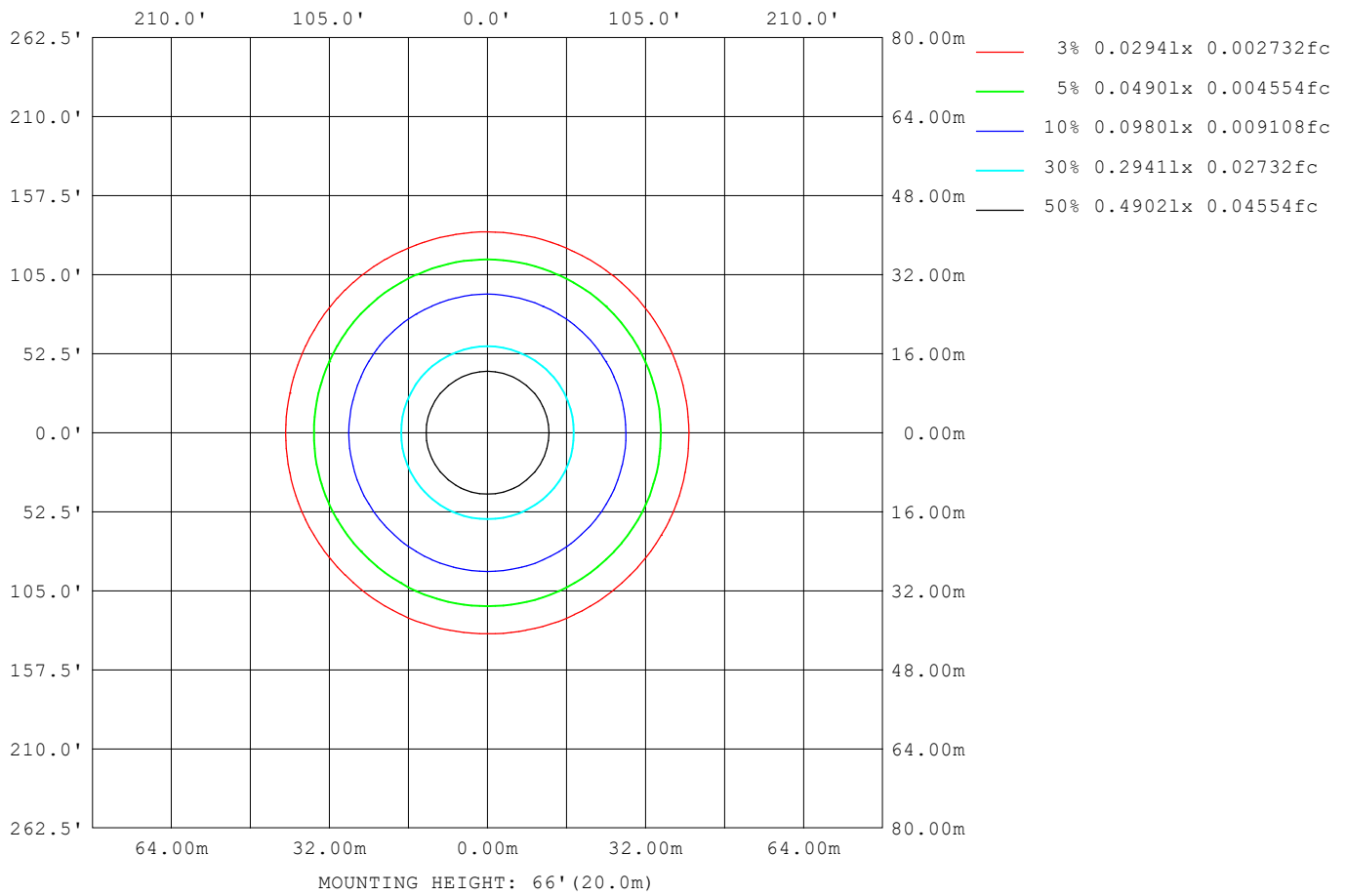
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:119.96V I:0.1309A P:11.324W PF:0.9519 Freq:59.98Hz Lamp Flux:1068.52x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:4000K 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:119.96V I:0.1309A P:11.324W PF:0.9519 Freq:59.98Hz Lamp Flux:1068.52x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:4000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

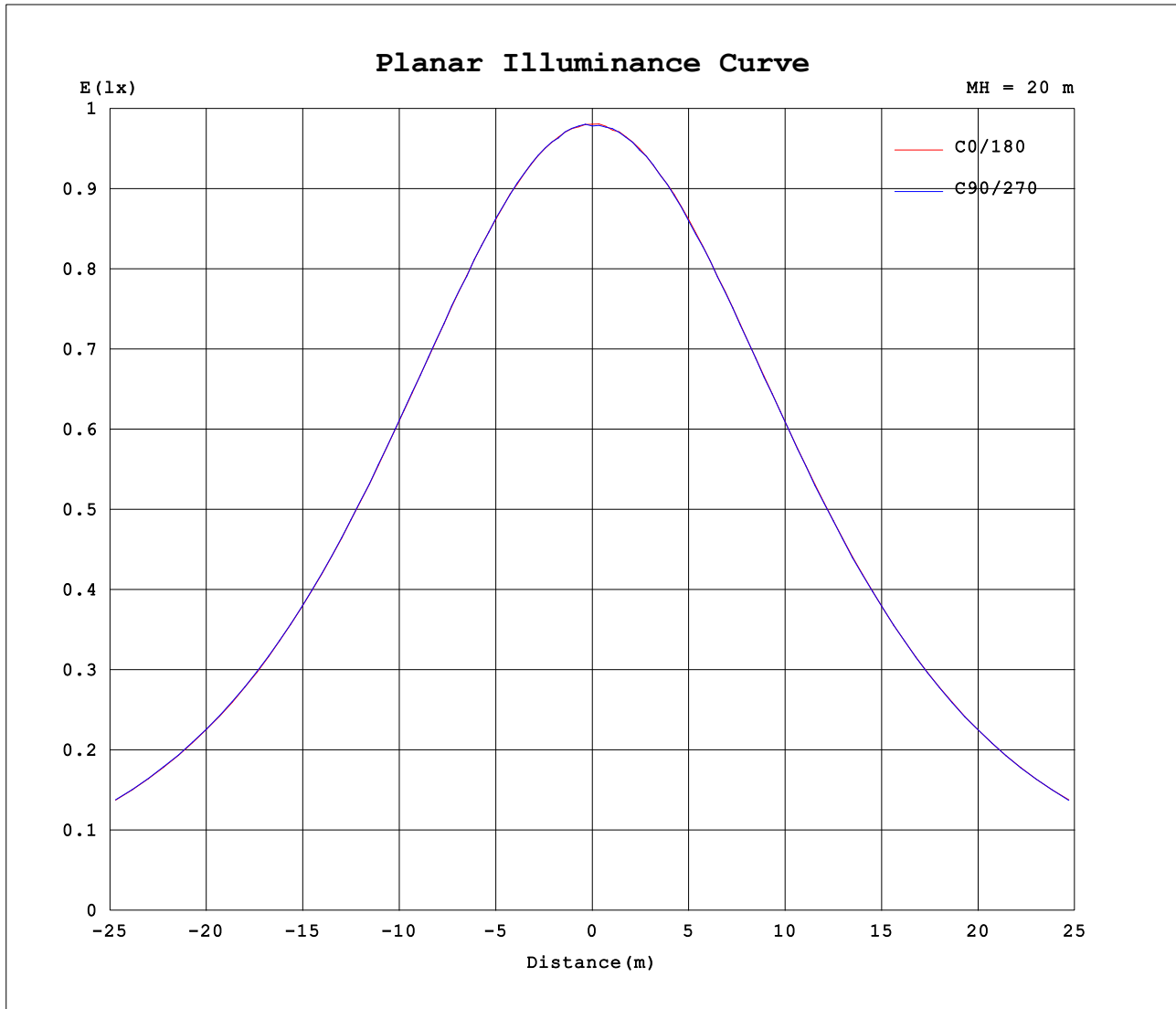
AvgL	cd/m2
L_0~180 (65) av	2775
L_0~180 (75) av	2217
L_0~180 (85) av	783
L_90~270 (65) av	2736
L_90~270 (75) av	2039
L_90~270 (85) av	221
L_45 (65) av	2764
L_45 (75) av	2132
L_45 (85) av	557

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

