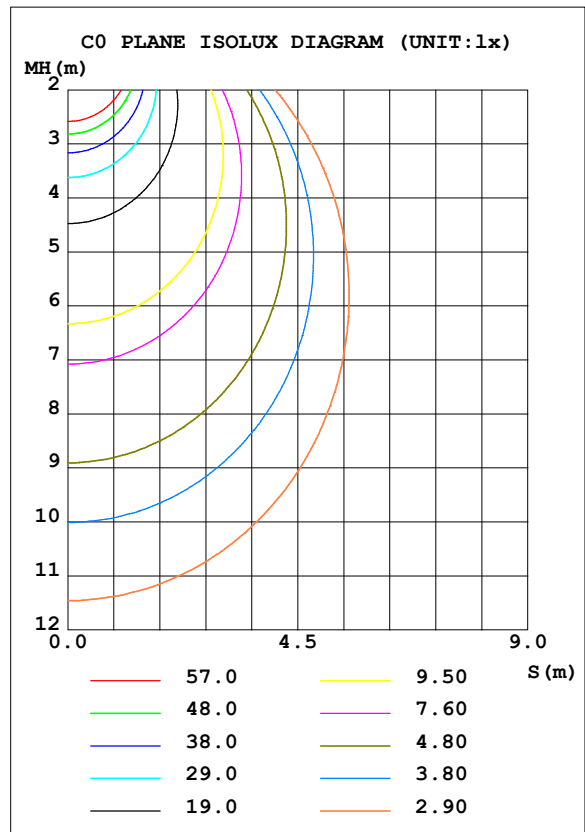
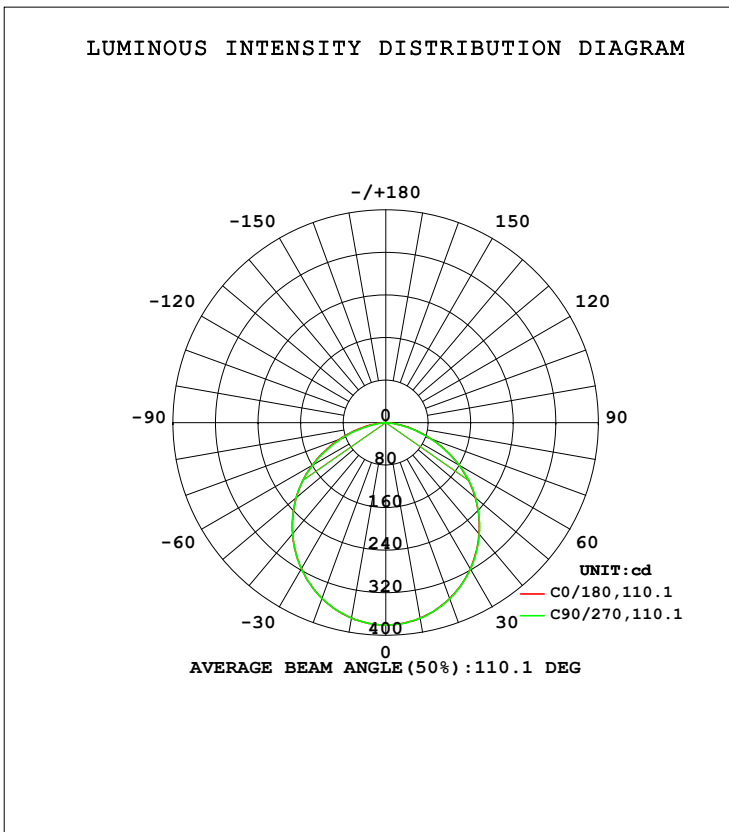


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.95V I:0.1347A P:11.715W PF:0.9524 Freq:59.98Hz Lamp Flux:1036.43x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:5000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 88.47 lm/W			
MODEL		I _{max} (cd)	380.7	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)	1036.4	<input type="checkbox"/> UP, DN (C0-180)	0.0, 50.1
NOMINAL FLUX (lm)	1036.43	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:

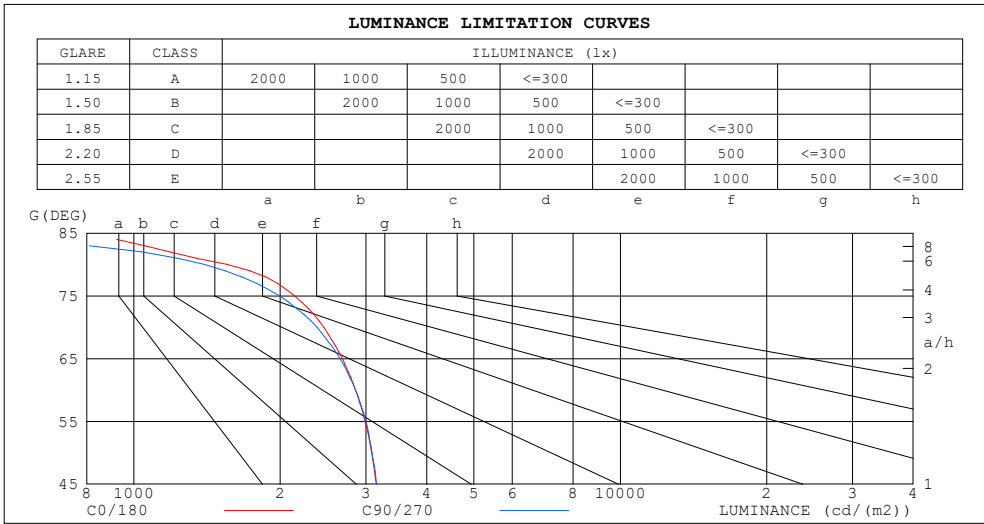
mm	C0	C45	C90	C135	C180	C225	C270	C315	mm	□ zone	□ total	%lum, lamp
10	373.2	373.3	373.3	373.2	373.0	373.3	372.9	373.2	0- 10	35.95	35.95	3.47,3.47
20	351.8	352.2	352.1	351.6	351.6	351.3	351.8	351.8	10- 20	102.7	138.6	13.4,13.4
30	317.9	317.9	318.1	317.6	317.4	317.4	317.4	317.4	20- 30	154.8	293.5	28.3,28.3
40	273.0	273.9	273.6	272.8	272.6	272.8	272.6	272.6	30- 40	185.4	478.9	46.2,46.2
50	220.0	221.0	220.8	219.9	220.3	220.3	219.9	219.8	40- 50	190.8	669.7	64.6,64.6
60	158.5	159.8	158.8	158.7	159.4	159.6	158.1	158.6	50- 60	170.2	839.9	81,81
70	93.30	93.03	90.50	92.21	93.91	92.78	89.57	91.48	60- 70	124.2	964.1	93,93
80	29.96	30.17	26.97	29.39	31.10	29.76	26.05	28.90	70- 80	62.99	1027	99.1,99.1
90	0.1588	0.1549	0.1486	0.1556	0.2705	0.2674	0.2568	0.2648	80- 90	9.300	1036	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:0.1347A P:11.715W PF:0.9524 Freq:59.98Hz Lamp Flux:1036.43x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:5000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



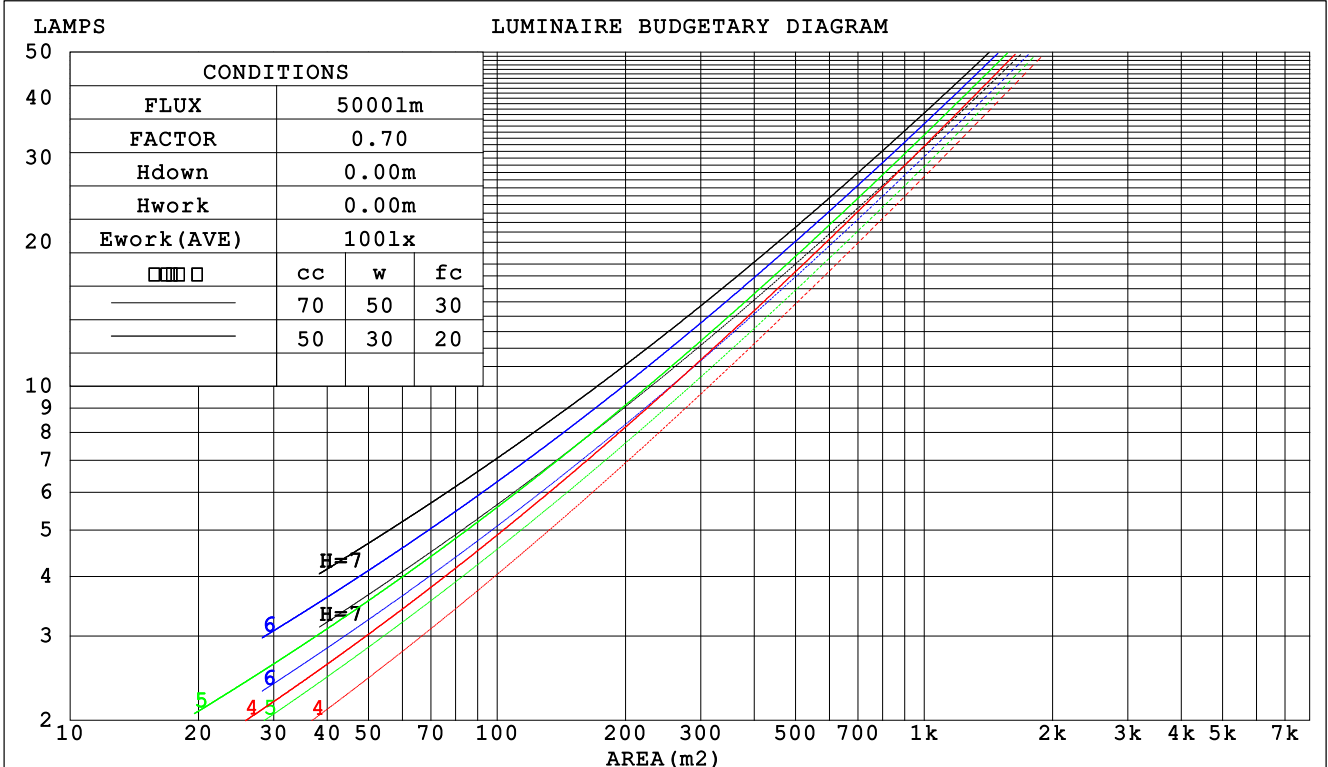
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-12-30

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

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.95V I:0.1347A P:11.715W PF:0.9524 Freq:59.98Hz Lamp Flux:1036.43x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	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	1.05	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:119.95V I:0.1347A P:11.715W PF:0.9524 Freq:59.98Hz Lamp Flux:1036.43x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	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	.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	.170 .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:119.95V I:0.1347A P:11.715W PF:0.9524 Freq:59.98Hz Lamp Flux:1036.43x1 lm										
NAME: LED-6-S12W-5CCTWH-R-BF					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	18.0	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	20.3
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	21.1
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	20.8	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	20.0	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, 1036 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:0.1347A P:11.715W PF:0.9524 Freq:59.98Hz Lamp Flux:1036.43x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:5000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

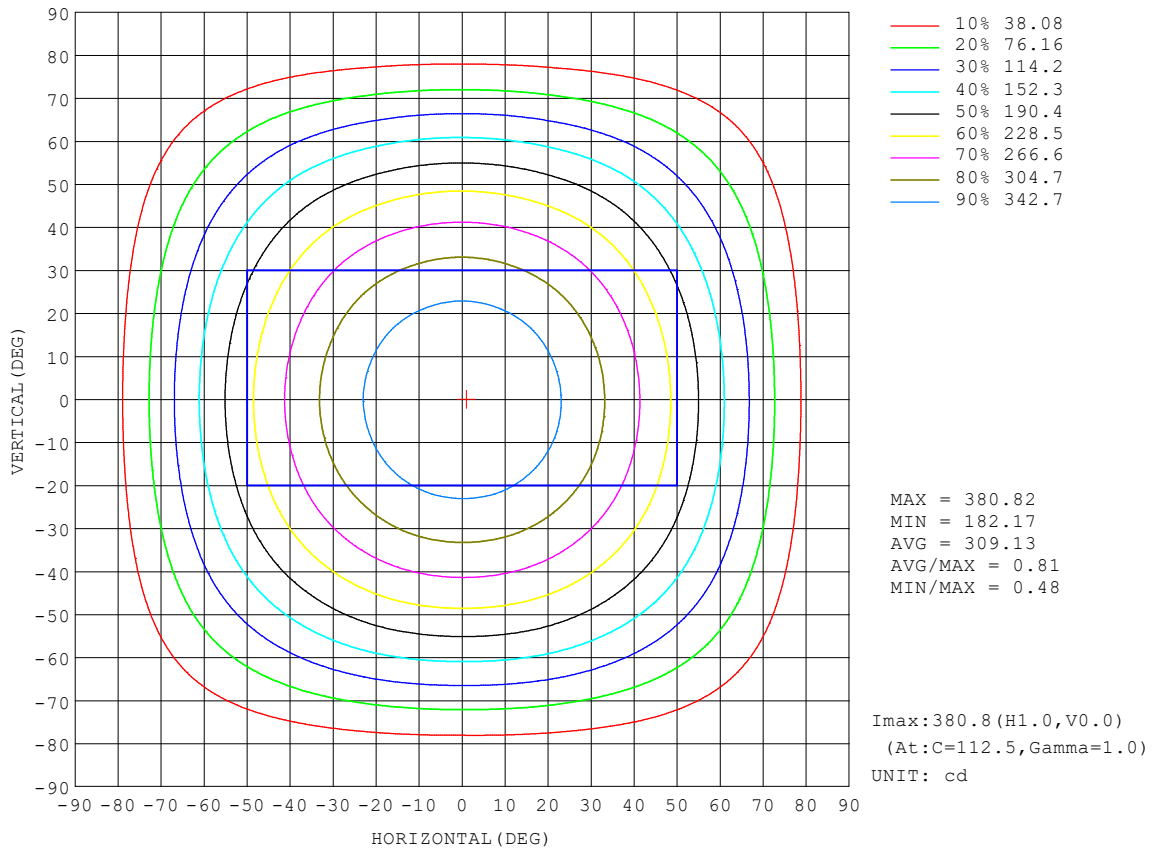
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	58	47	40	56	46	40	33
0.80	68	57	50	67	57	50	66	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:119.95V I:0.1347A P:11.715W PF:0.9524 Freq:59.98Hz Lamp Flux:1036.43x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:5000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

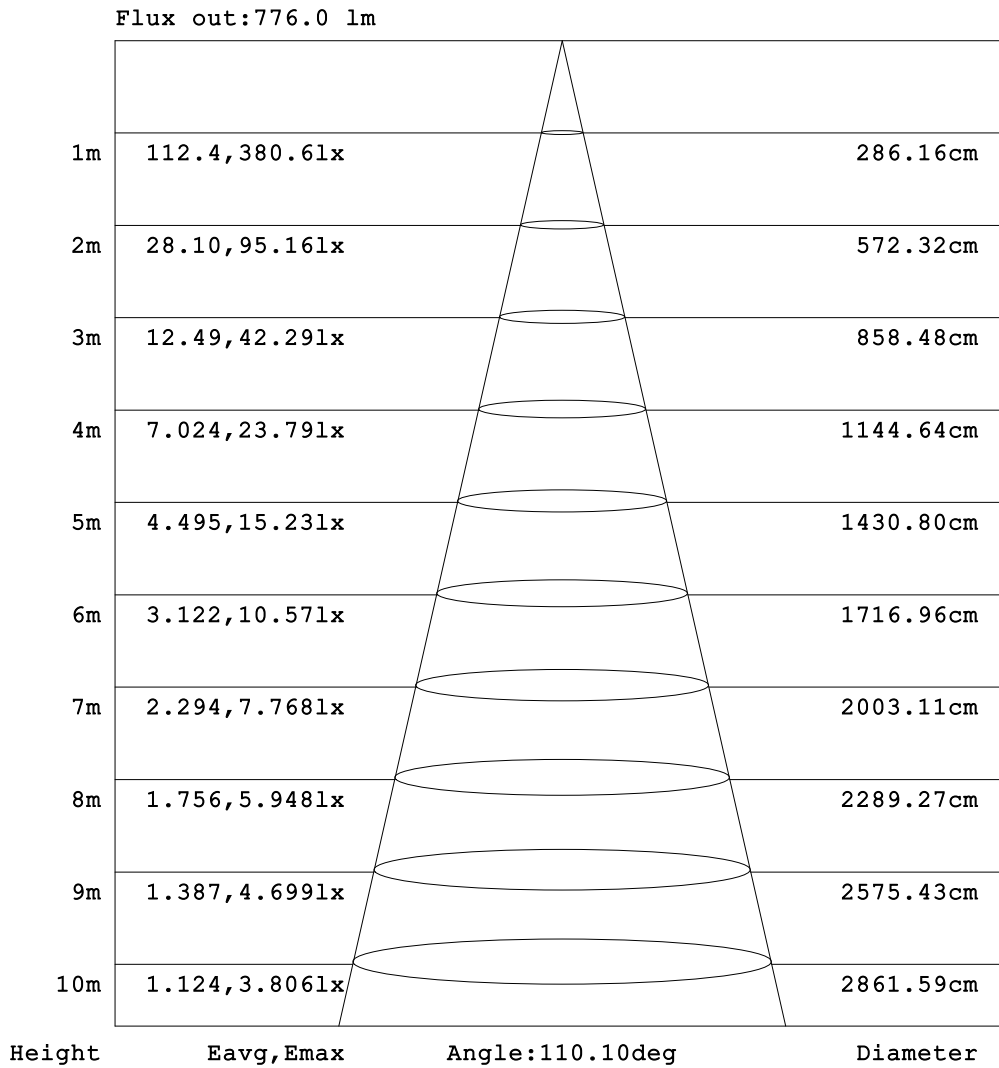


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-12-30

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:0.1347A P:11.715W PF:0.9524 Freq:59.98Hz Lamp Flux:1036.43x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:5000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



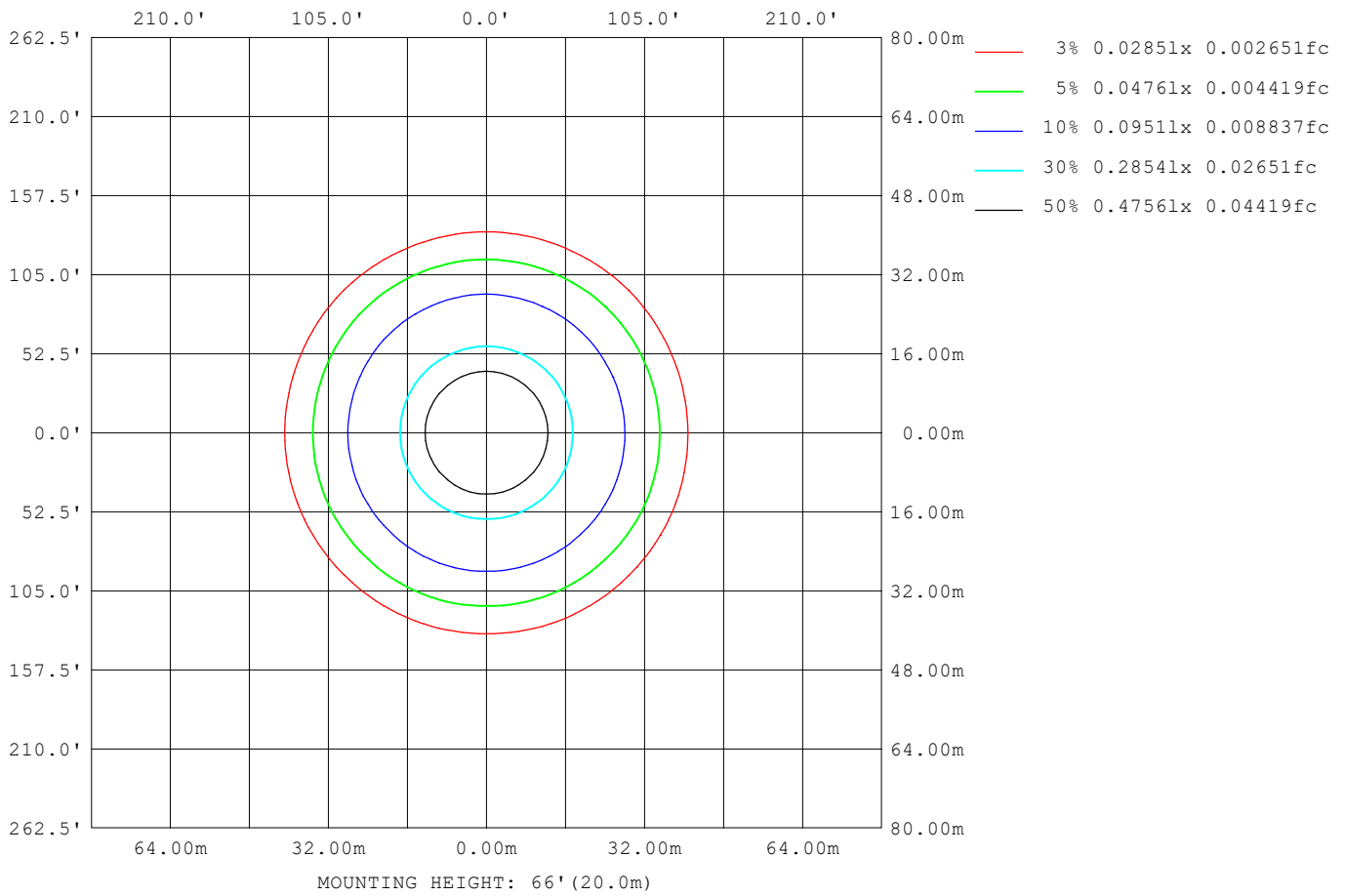
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1347A P:11.715W PF:0.9524 Freq:59.98Hz Lamp Flux:1036.43x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	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:0.1347A P:11.715W PF:0.9524 Freq:59.98Hz Lamp Flux:1036.43x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:5000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

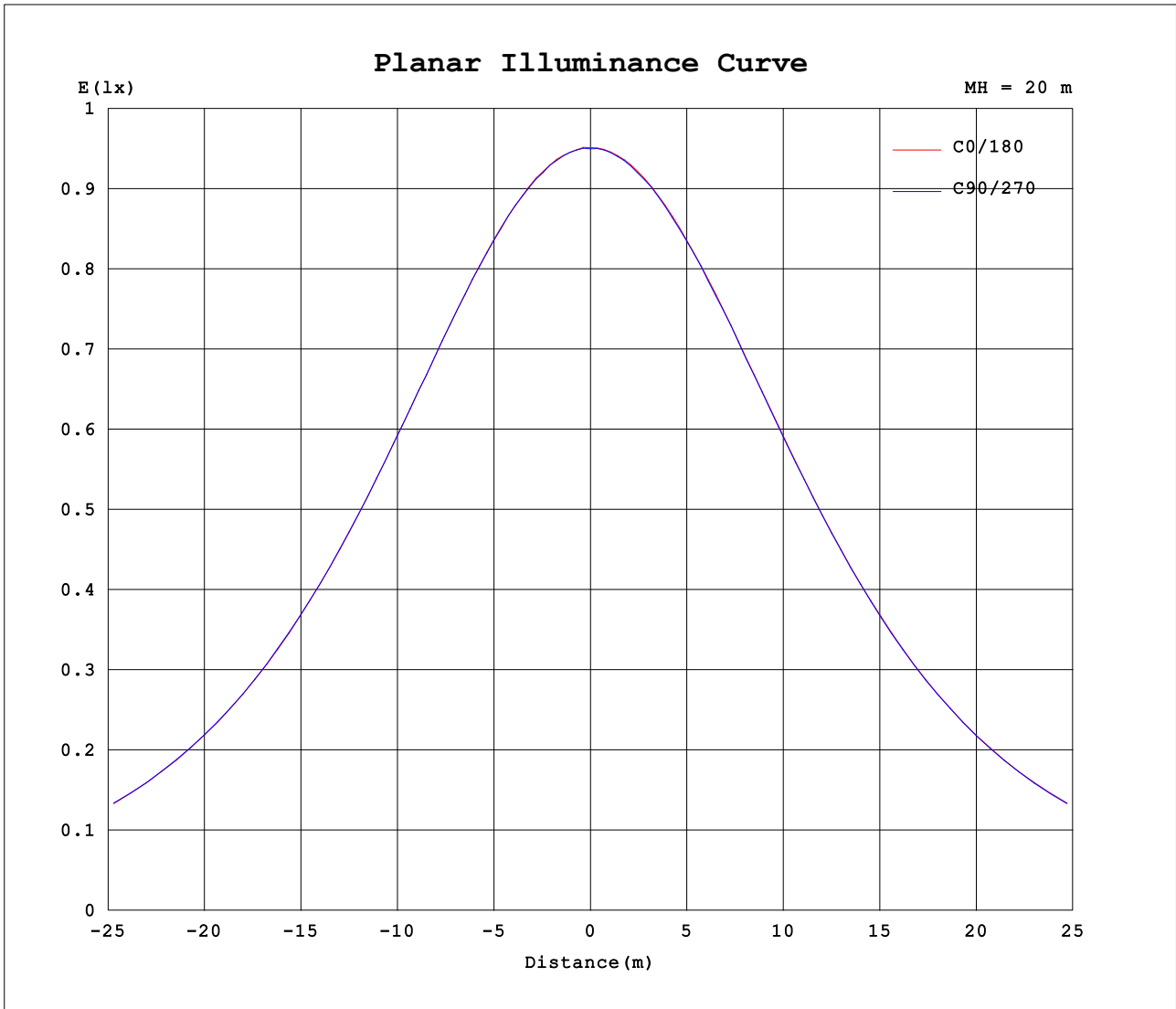
AvgL	cd/m2
L_0~180 (65) av	2691
L_0~180 (75) av	2150
L_0~180 (85) av	760
L_90~270 (65) av	2648
L_90~270 (75) av	1975
L_90~270 (85) av	216
L_45 (65) av	2683
L_45 (75) av	2069
L_45 (85) av	542

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

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.95V I:0.1347A P:11.715W PF:0.9524 Freq:59.98Hz Lamp Flux:1036.43x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:5000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG)\ □ (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	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380			
5	379	378	379	378	379	379	378	378	379	378	379	378	379	378	378	378			
10	373	373	373	374	373	373	373	373	373	373	373	372	373	373	373	373			
15	364	364	365	365	364	364	364	364	364	364	364	364	364	364	364	364			
20	352	352	352	352	352	352	352	351	352	351	351	351	352	351	352	351			
25	336	337	337	337	337	337	336	335	336	336	336	336	336	335	335	336			
30	318	318	318	318	318	318	318	317	317	317	317	317	317	317	317	317			
35	297	297	297	298	297	297	296	296	296	296	296	296	296	296	296	296			
40	273	274	274	274	274	274	273	273	273	272	273	272	273	272	273	272			
45	248	248	248	249	248	248	247	247	247	247	247	247	247	246	247	247			
50	220	221	221	222	221	221	220	220	220	219	220	219	220	219	220	219			
55	190	192	192	192	191	192	191	191	191	190	191	190	190	189	190	189			
60	159	160	160	160	159	160	159	160	159	159	160	158	158	157	159	157			
65	126	127	127	126	125	126	126	127	127	126	126	124	124	124	125	125			
70	93.3	94.4	93.0	92.0	90.5	91.2	92.2	93.9	93.9	93.4	92.8	90.2	89.6	89.7	91.5	92.2			
75	61.5	62.0	60.2	58.7	57.3	57.9	59.3	61.5	62.2	61.4	59.8	57.0	56.2	56.4	58.7	60.1			
80	30.0	29.3	30.2	28.4	27.0	27.9	29.4	29.4	31.1	31.1	29.8	26.9	26.1	26.5	28.9	30.3			
85	7.19	6.13	5.36	2.88	2.32	2.83	5.39	5.98	7.52	6.64	5.08	2.10	1.87	2.04	5.16	6.82			
90	0.16	0.19	0.15	0.15	0.15	0.15	0.16	0.19	0.27	0.30	0.27	0.26	0.26	0.25	0.26	0.30			

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