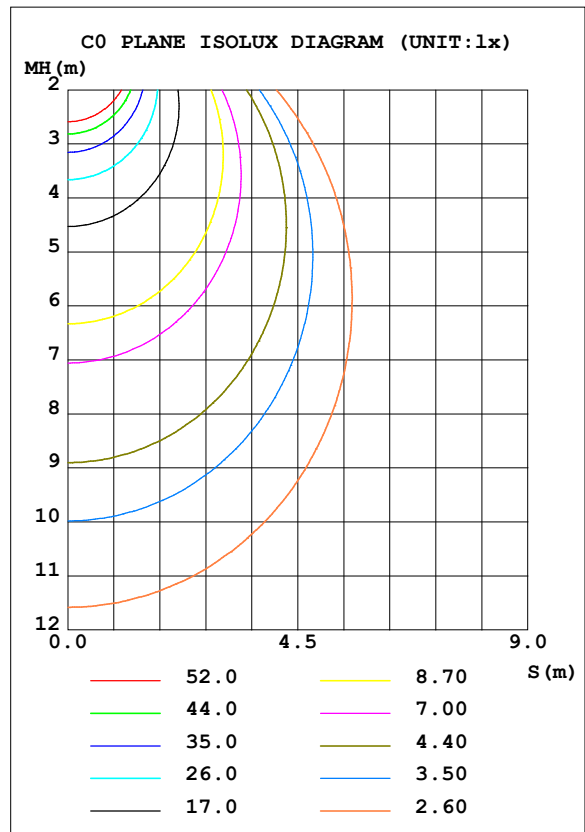
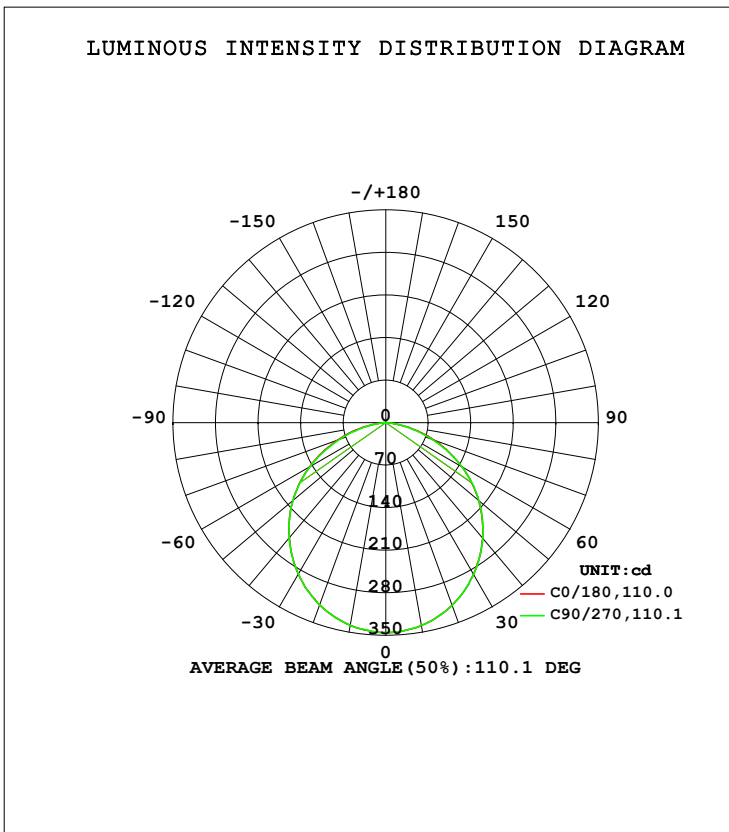


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.96V I:0.1339A P:11.636W PF:0.9510 Freq:59.98Hz Lamp Flux:940.823x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:2700K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.86 lm/W			
MODEL		I _{max} (cd)	345.8	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)	940.82	<input type="checkbox"/> UP, DN (C0-180)	0.0, 50.1
NOMINAL FLUX (lm)	940.823	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:

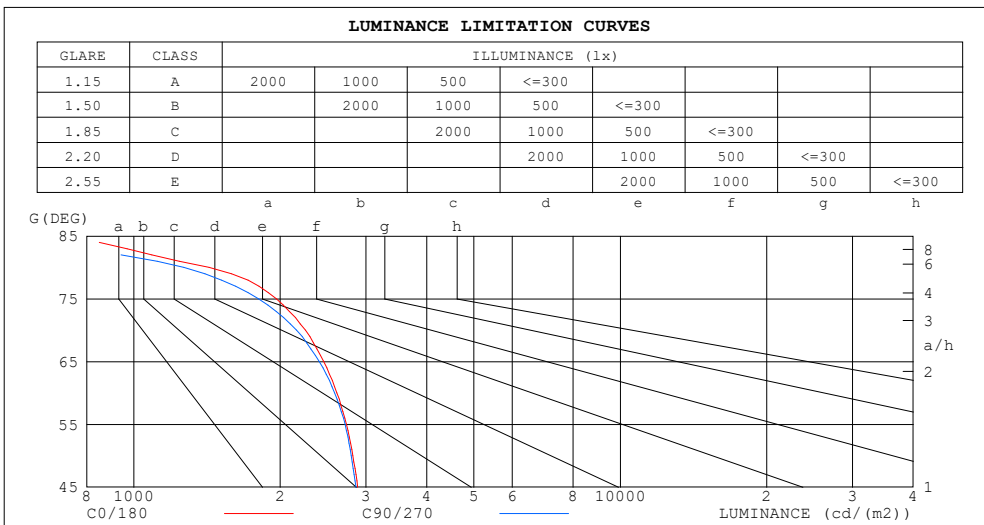
mm	C0	C45	C90	C135	C180	C225	C270	C315	mm	□ zone	□ total	%lum, lamp
10	338.7	339.5	338.5	338.7	338.3	338.7	338.7	338.9	0- 10	32.65	32.65	3.47,3.47
20	319.5	320.2	319.8	319.0	318.8	319.5	319.1	319.9	10- 20	93.26	125.9	13.4,13.4
30	288.5	289.6	288.9	288.4	287.7	288.4	287.6	288.5	20- 30	140.6	266.5	28.3,28.3
40	248.1	249.2	248.2	247.5	247.1	247.6	247.4	248.0	30- 40	168.3	434.8	46.2,46.2
50	199.6	200.7	200.3	199.6	199.8	199.9	199.5	199.8	40- 50	173.3	608.1	64.6,64.6
60	143.9	145.1	143.9	144.0	144.4	144.6	143.3	144.1	50- 60	154.4	762.6	81.1,81.1
70	84.79	84.84	82.19	83.60	85.03	83.87	81.07	83.20	60- 70	112.7	875.3	93,93
80	27.29	27.56	24.49	26.53	28.08	26.78	23.57	26.35	70- 80	57.13	932.4	99.1,99.1
90	0.1462	0.1376	0.1297	0.1326	0.2570	0.2390	0.2289	0.2363	80- 90	8.426	940.8	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:0.1339A P:11.636W PF:0.9510 Freq:59.98Hz Lamp Flux:940.823x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:2700K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	683	220
80	1428	1268
75	1962	1803
70	2252	2160
65	2456	2405
60	2614	2587
55	2735	2719
50	2821	2801
45	2885	2861

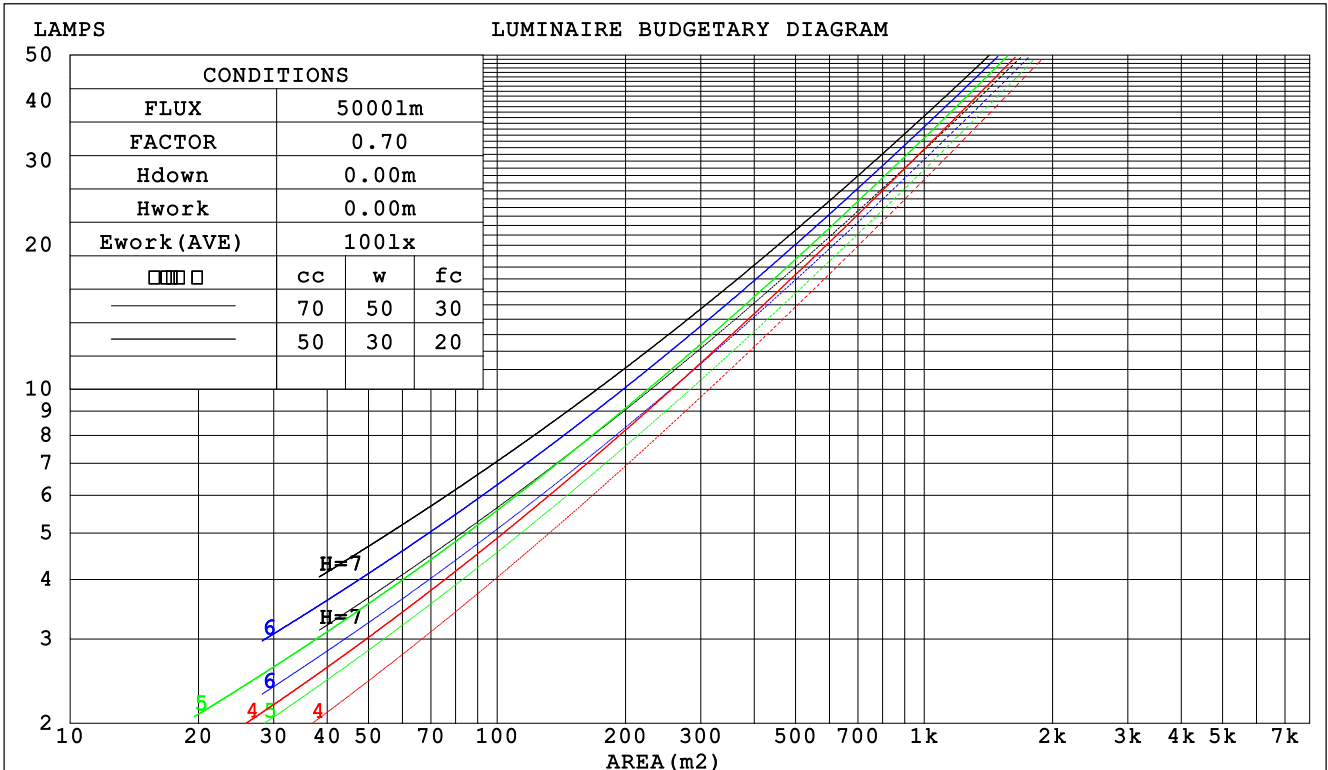
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-12-30

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:0.1339A P:11.636W PF:0.9510 Freq:59.98Hz Lamp Flux:940.823x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:2700K 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	.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	.46	.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	.46	.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:0.1339A P:11.636W PF:0.9510 Freq:59.98Hz Lamp Flux:940.823x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:2700K 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 .041	.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	.199 .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:0.1339A P:11.636W PF:0.9510 Freq:59.98Hz Lamp Flux:940.823x1 lm										
NAME: LED-6-S12W-5CCTWH-R-BF					TYPE:			WEIGHT:		
SPEC.:2700K 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	18.6	16.6	18.1	16.9	18.3	18.5
3H	18.0	19.4	18.3	19.6	19.9	17.9	19.3	18.2	19.5	19.8
4H	18.5	19.8	18.8	20.1	20.3	18.4	19.7	18.7	19.9	20.2
6H	18.8	20.0	19.1	20.3	20.6	18.6	19.8	18.9	20.1	20.4
8H	18.8	20.0	19.1	20.3	20.6	18.6	19.8	18.9	20.1	20.4
12H	18.8	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	18.8	19.0	17.2	18.5	17.5	18.7	19.0
3H	18.8	19.9	19.1	20.2	20.5	18.7	19.8	19.0	20.1	20.4
4H	19.4	20.4	19.7	20.7	21.1	19.2	20.3	19.6	20.6	20.9
6H	19.7	20.7	20.1	21.0	21.4	19.5	20.4	19.9	20.8	21.2
8H	19.8	20.6	20.2	21.0	21.4	19.6	20.4	20.0	20.8	21.2
12H	19.8	20.6	20.2	20.9	21.3	19.5	20.3	20.0	20.7	21.1
8H 4H	19.6	20.4	20.0	20.8	21.2	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	20.3	20.9	21.4
8H	20.1	20.7	20.5	21.1	21.6	19.9	20.5	20.3	20.9	21.4
12H	20.1	20.6	20.6	21.1	21.6	19.9	20.4	20.4	20.9	21.3
12H 4H	19.5	20.3	20.0	20.7	21.1	19.4	20.2	19.8	20.6	21.0
6H	20.0	20.6	20.5	21.1	21.5	19.8	20.5	20.3	20.9	21.3
8H	20.1	20.6	20.6	21.1	21.6	19.9	20.5	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, 940.8 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:0.1339A P:11.636W PF:0.9510 Freq:59.98Hz Lamp Flux:940.823x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:2700K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

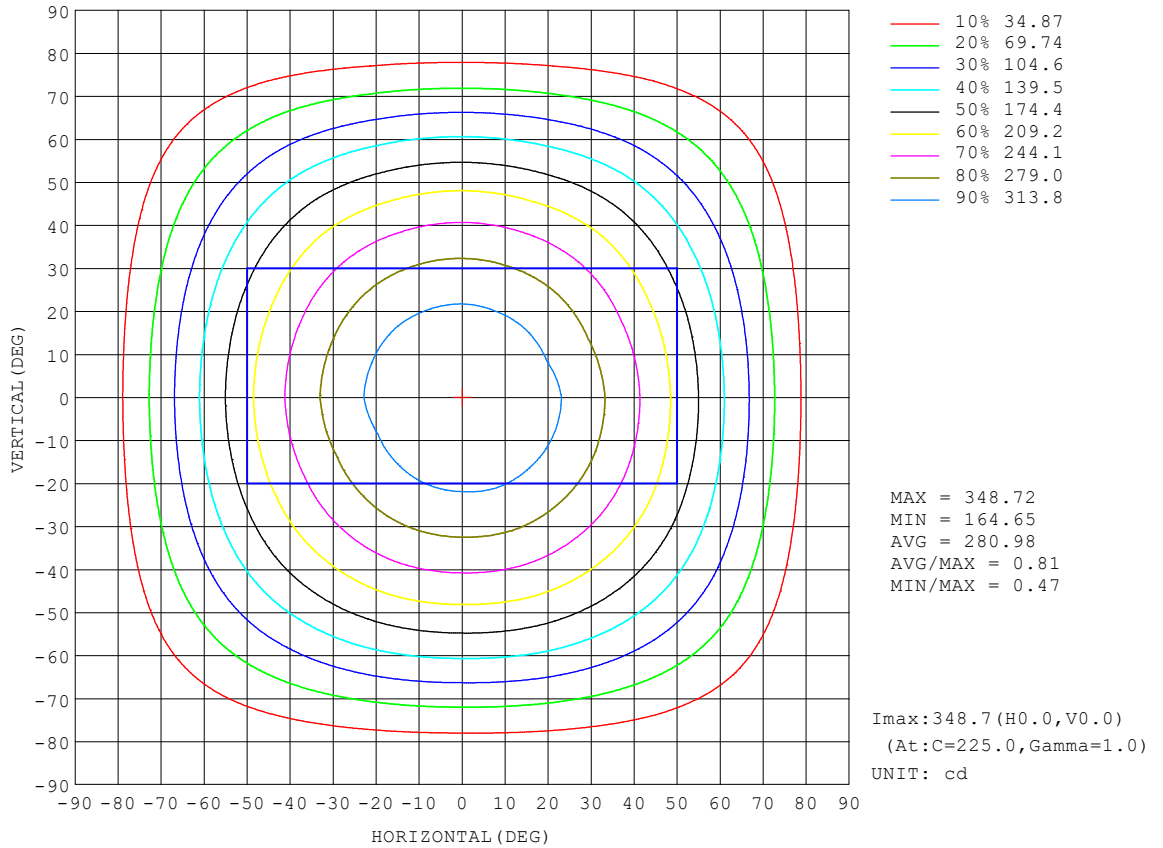
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	58	47	40	56	46	40	33
0.80	68	57	50	67	57	50	66	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:0.1339A P:11.636W PF:0.9510 Freq:59.98Hz Lamp Flux:940.823x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:2700K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

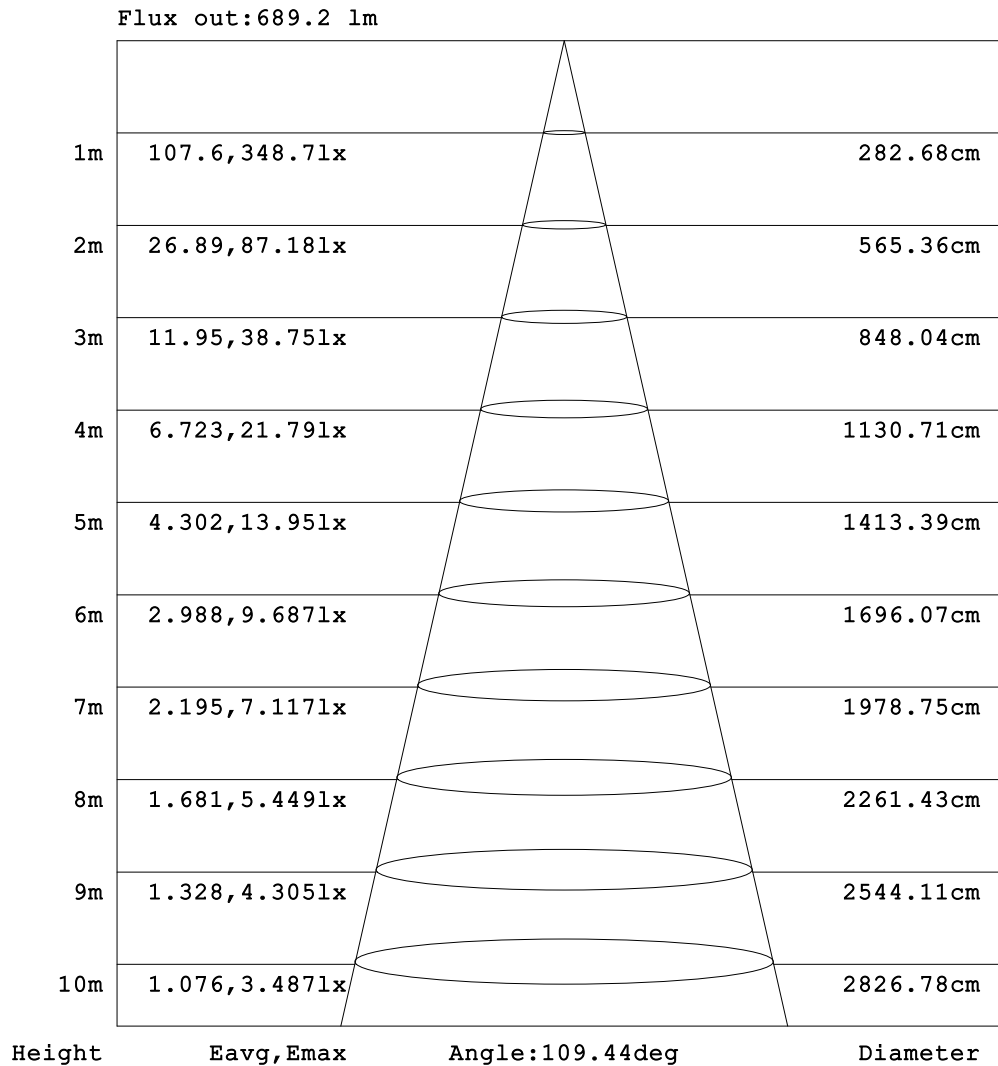


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-12-30

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:0.1339A P:11.636W PF:0.9510 Freq:59.98Hz Lamp Flux:940.823x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:2700K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



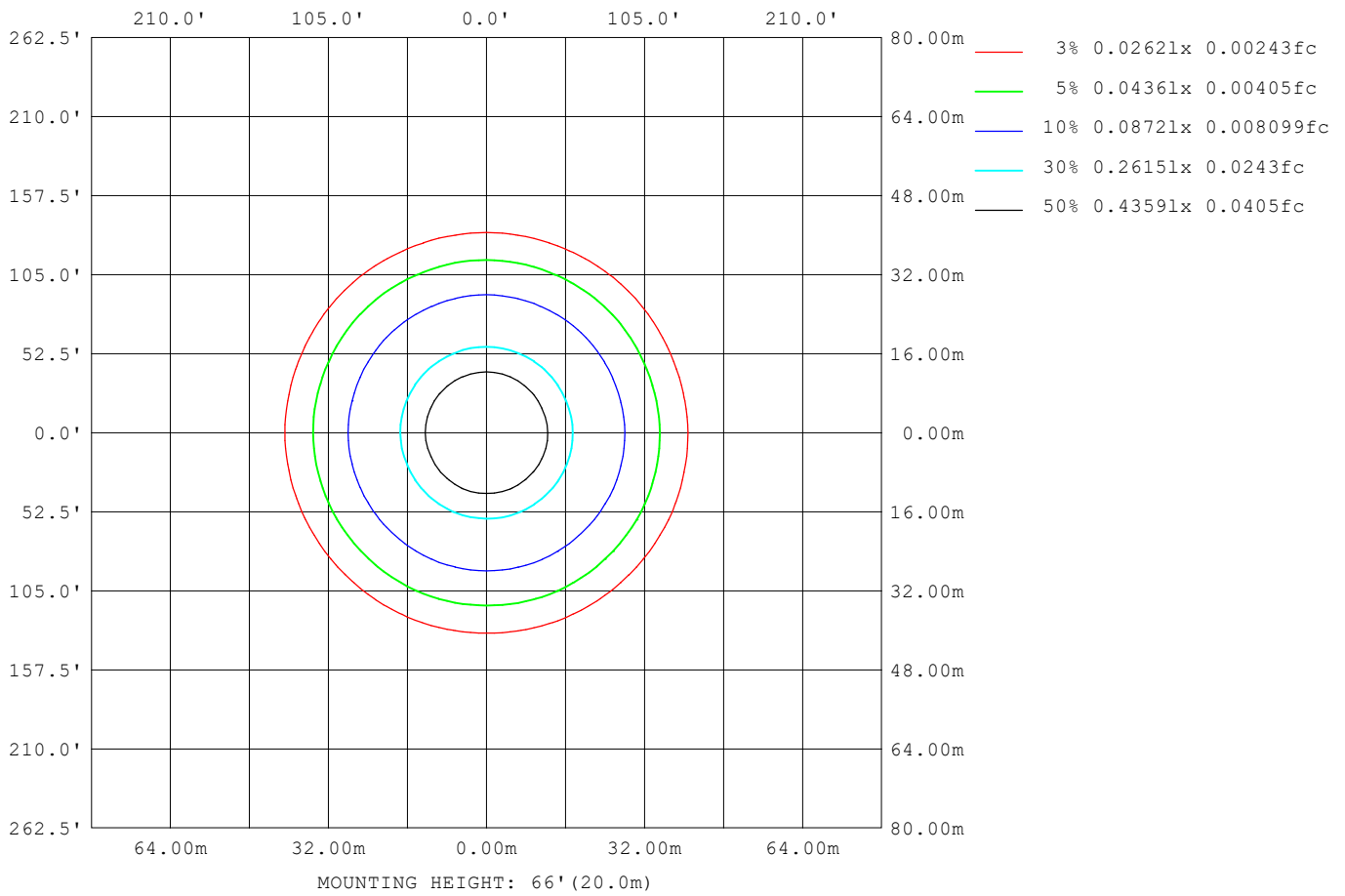
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1339A P:11.636W PF:0.9510 Freq:59.98Hz Lamp Flux:940.823x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:2700K 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:0.1339A P:11.636W PF:0.9510 Freq:59.98Hz Lamp Flux:940.823x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:2700K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

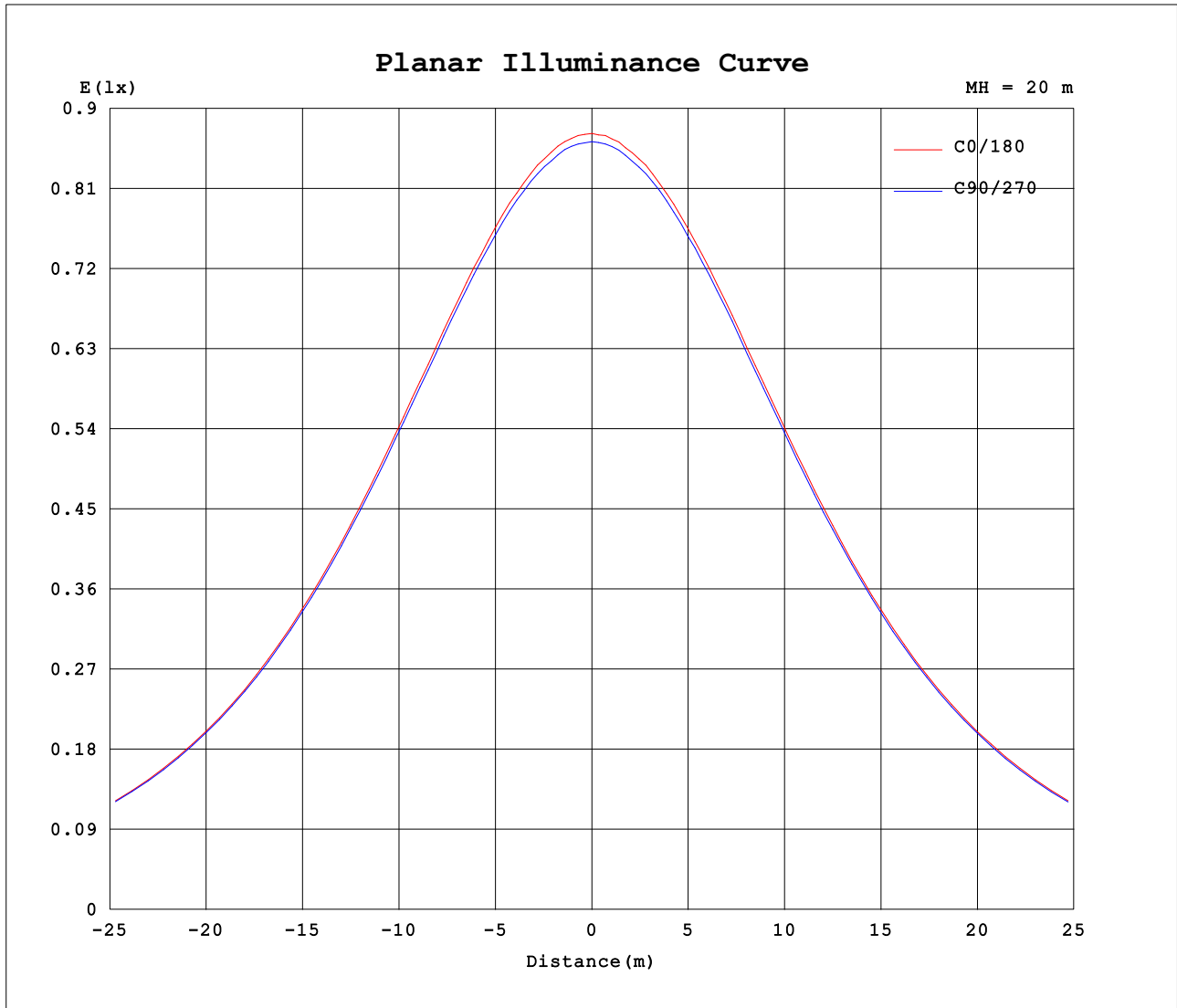
AvgL	cd/m2
L_0~180 (65) av	2439
L_0~180 (75) av	1950
L_0~180 (85) av	689
L_90~270 (65) av	2400
L_90~270 (75) av	1787
L_90~270 (85) av	195
L_45 (65) av	2435
L_45 (75) av	1877
L_45 (85) av	489

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:119.96V I:0.1339A P:11.636W PF:0.9510 Freq:59.98Hz Lamp Flux:940.823x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:2700K 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	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346			
5	344	344	344	344	344	344	344	344	343	344	344	343	343	343	344	344			
10	339	339	339	339	338	339	339	338	338	339	339	338	339	339	339	339			
15	331	331	331	331	331	331	330	330	330	330	331	330	330	330	331	331			
20	319	320	320	320	320	319	319	319	319	319	319	318	319	319	320	319			
25	306	306	306	306	305	306	305	304	305	304	305	304	305	305	306	305			
30	289	289	290	289	289	289	288	288	288	287	288	287	288	288	289	288			
35	269	271	270	270	270	269	269	269	269	269	269	268	269	268	269	269			
40	248	249	249	249	248	248	248	247	247	247	248	247	247	247	248	248			
45	225	226	226	226	225	225	224	225	224	224	225	224	224	224	225	224			
50	200	201	201	201	200	201	200	200	200	199	200	198	200	199	200	199			
55	173	175	174	175	174	174	173	173	173	172	173	172	173	172	173	172			
60	144	146	145	146	144	145	144	145	144	144	145	143	143	143	144	143			
65	114	116	115	115	113	114	114	115	115	114	114	112	112	112	114	114			
70	84.8	85.9	84.8	83.6	82.2	82.7	83.6	85.1	85.0	84.6	83.9	81.3	81.1	81.4	83.2	83.9			
75	55.9	56.6	54.9	53.4	51.9	52.4	53.7	55.6	56.2	55.4	54.0	51.2	50.9	51.2	53.4	54.7			
80	27.3	26.8	27.6	25.9	24.5	25.3	26.5	26.6	28.1	28.0	26.8	24.0	23.6	24.0	26.4	27.7			
85	6.55	5.63	4.94	2.67	2.13	2.59	4.84	5.38	6.79	5.93	4.45	1.72	1.63	1.83	4.69	6.24			
90	0.15	0.17	0.14	0.13	0.13	0.13	0.13	0.16	0.26	0.27	0.24	0.23	0.23	0.23	0.24	0.27			

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