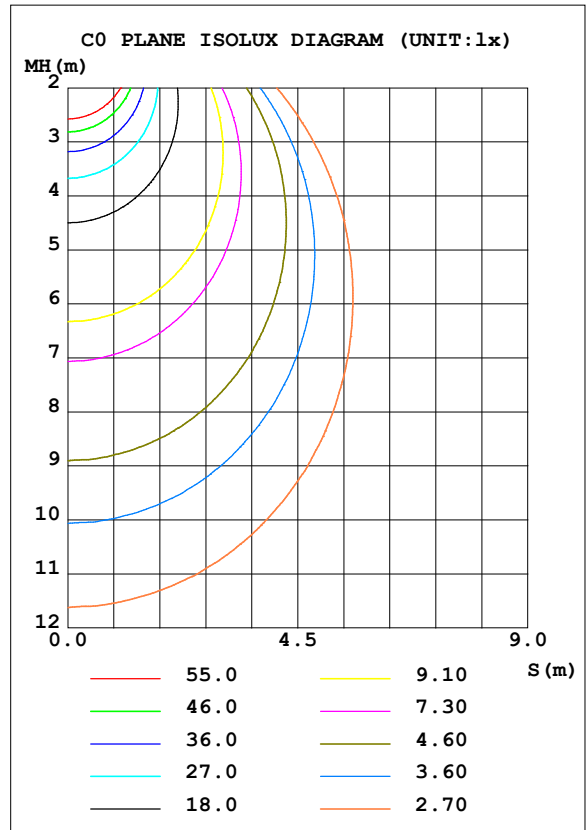
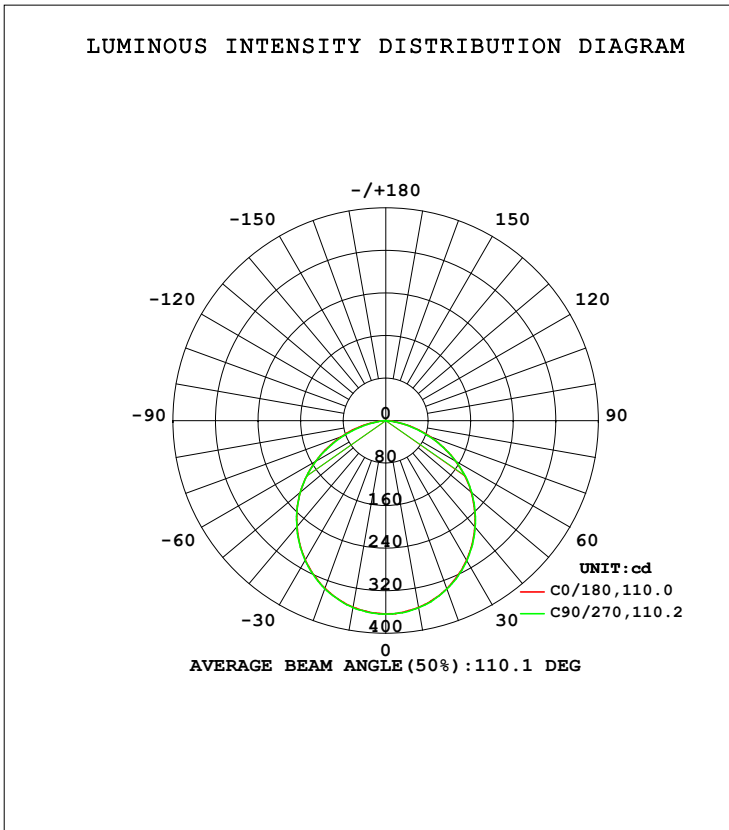


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.96V I:0.1320A P:11.435W PF:0.9518 Freq:59.98Hz Lamp Flux:990.885x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:3000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 86.66 lm/W			
MODEL		Imax (cd)	364.1	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)	990.88	<input type="checkbox"/> UP, DN (C0-180)	0.0,50.1
NOMINAL FLUX (lm)	990.885	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:

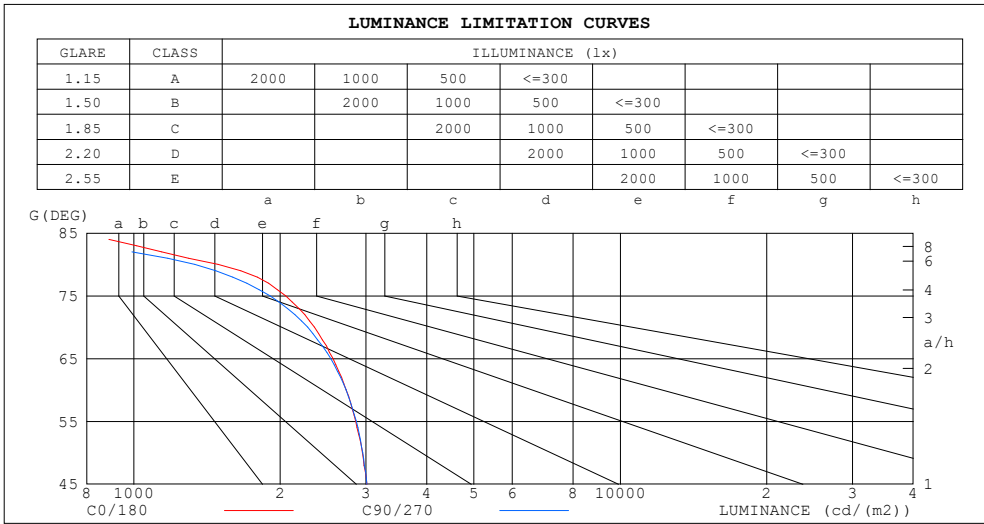
mm	C0	C45	C90	C135	C180	C225	C270	C315	mm	□ zone	□ total	%lum, lamp
10	356.4	357.3	357.1	356.8	356.2	356.4	356.8	356.8	0- 10	34.39	34.39	3.47,3.47
20	336.1	336.9	336.6	336.2	335.3	335.7	336.1	336.4	10- 20	98.23	132.6	13.4,13.4
30	303.8	304.8	304.6	303.5	303.1	303.0	303.7	303.5	20- 30	148.1	280.7	28.3,28.3
40	260.8	261.9	261.6	260.6	259.9	260.6	260.7	261.0	30- 40	177.3	458.0	46.2,46.2
50	210.1	211.4	211.3	210.3	210.0	210.5	210.2	210.4	40- 50	182.4	640.4	64.6,64.6
60	151.4	152.8	151.8	151.8	151.9	152.1	151.0	151.6	50- 60	162.7	803.1	81,81
70	89.13	89.27	86.62	88.11	89.52	88.46	85.56	87.49	60- 70	118.7	921.8	93,93
80	28.68	28.94	25.77	28.02	29.58	28.33	24.88	27.69	70- 80	60.20	982.0	99.1,99.1
90	0.1532	0.1461	0.1379	0.1423	0.2638	0.2532	0.2418	0.2502	80- 90	8.882	990.9	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:0.1320A P:11.435W PF:0.9518 Freq:59.98Hz Lamp Flux:990.885x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:3000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	714	230
80	1490	1335
75	2052	1903
70	2351	2278
65	2567	2540
60	2731	2732
55	2859	2868
50	2949	2957
45	3016	3014

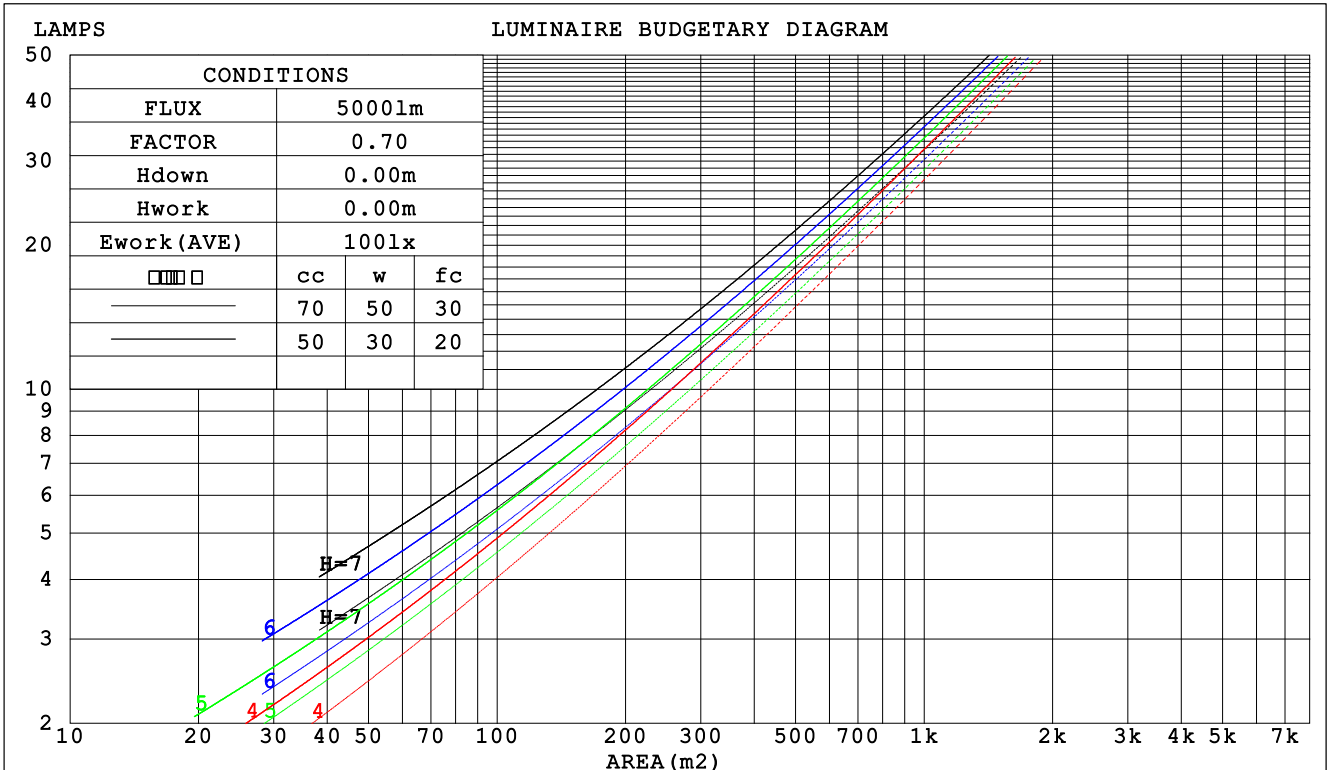
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-12-30

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:0.1320A P:11.435W PF:0.9518 Freq:59.98Hz Lamp Flux:990.885x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:3000K 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	.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:0.1320A P:11.435W PF:0.9518 Freq:59.98Hz Lamp Flux:990.885x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:3000K 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:0.1320A P:11.435W PF:0.9518 Freq:59.98Hz Lamp Flux:990.885x1 lm										
NAME: LED-6-S12W-5CCTWH-R-BF					TYPE:			WEIGHT:		
SPEC.:3000K 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	18.8	20.0	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	21.0	21.3	19.5	20.4	20.0	20.8	21.2
12H	19.7	20.5	20.2	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	20.1	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, 990.9 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.0)
 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:0.1320A P:11.435W PF:0.9518 Freq:59.98Hz Lamp Flux:990.885x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:3000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

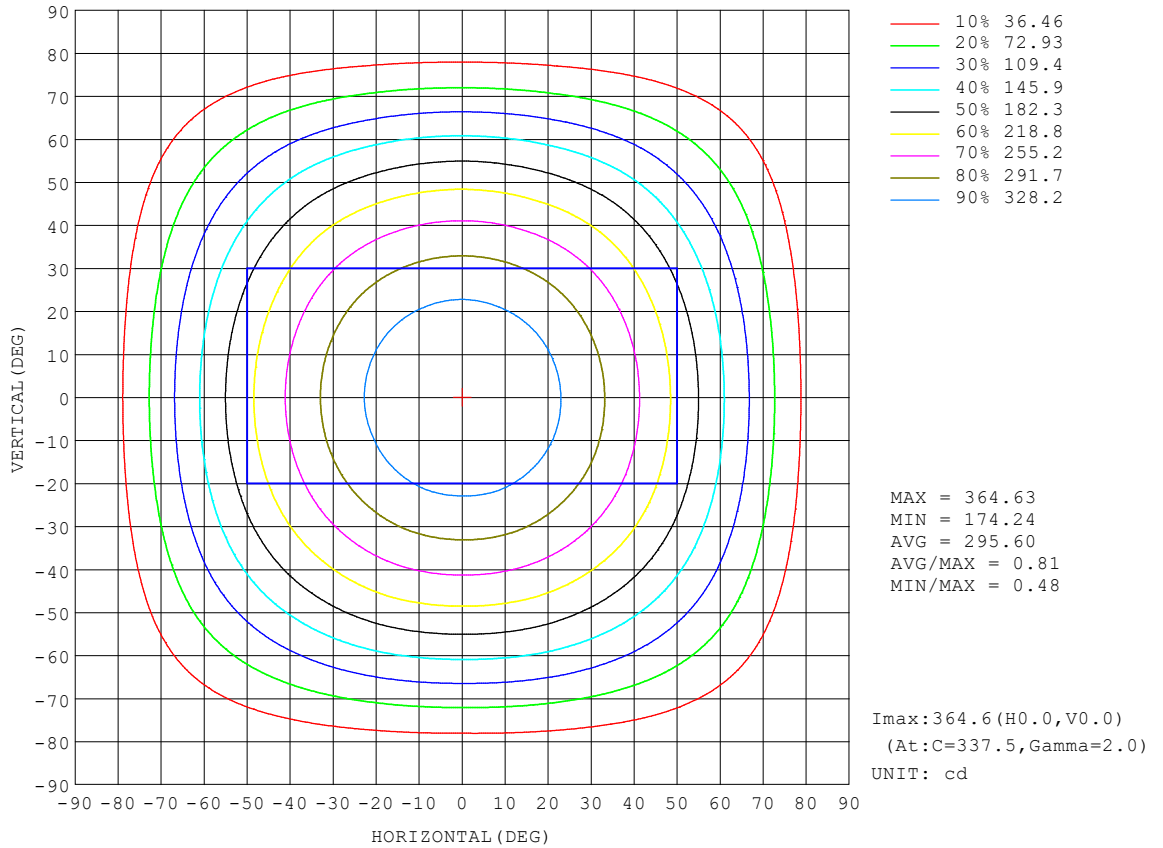
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	58	47	40	56	46	40	33
0.80	68	57	50	67	57	50	66	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:0.1320A P:11.435W PF:0.9518 Freq:59.98Hz Lamp Flux:990.885x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:3000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

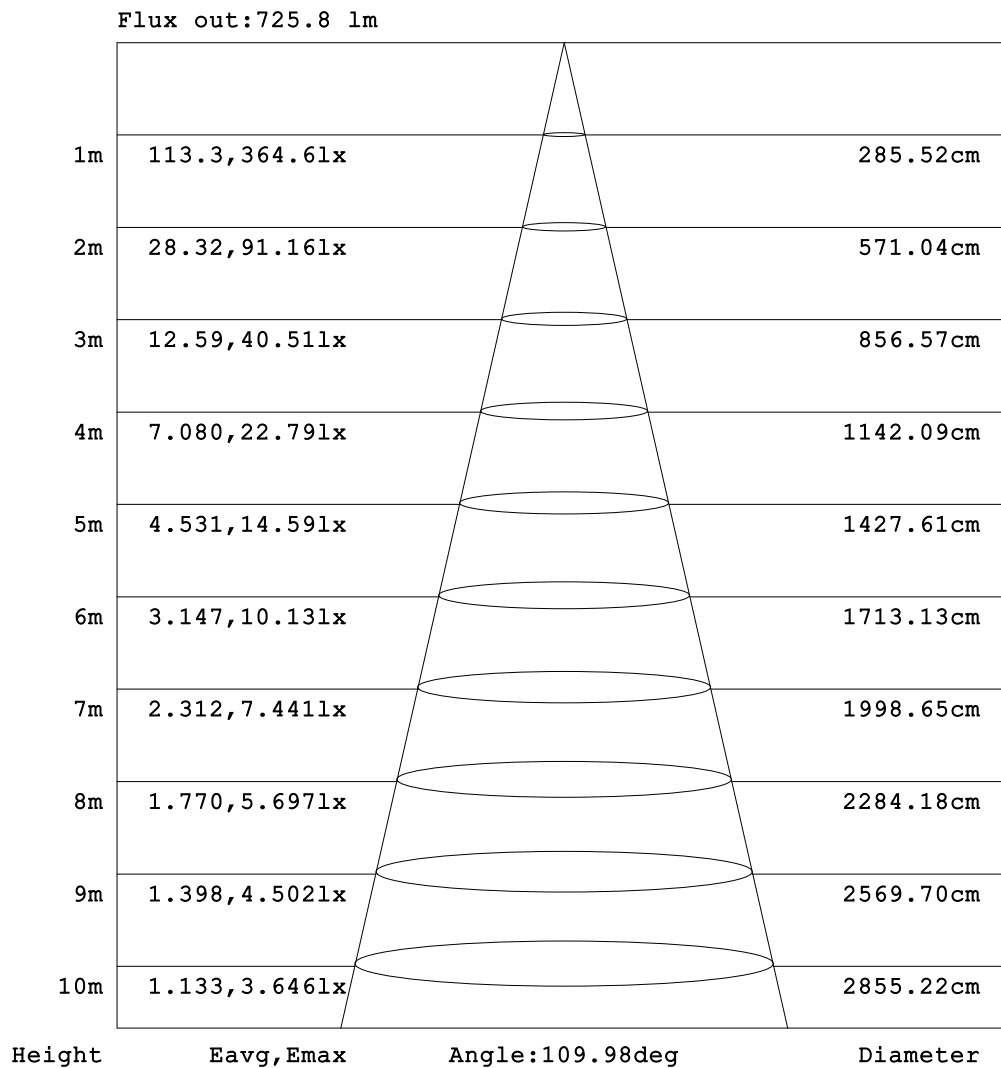


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-12-30

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:0.1320A P:11.435W PF:0.9518 Freq:59.98Hz Lamp Flux:990.885x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:3000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



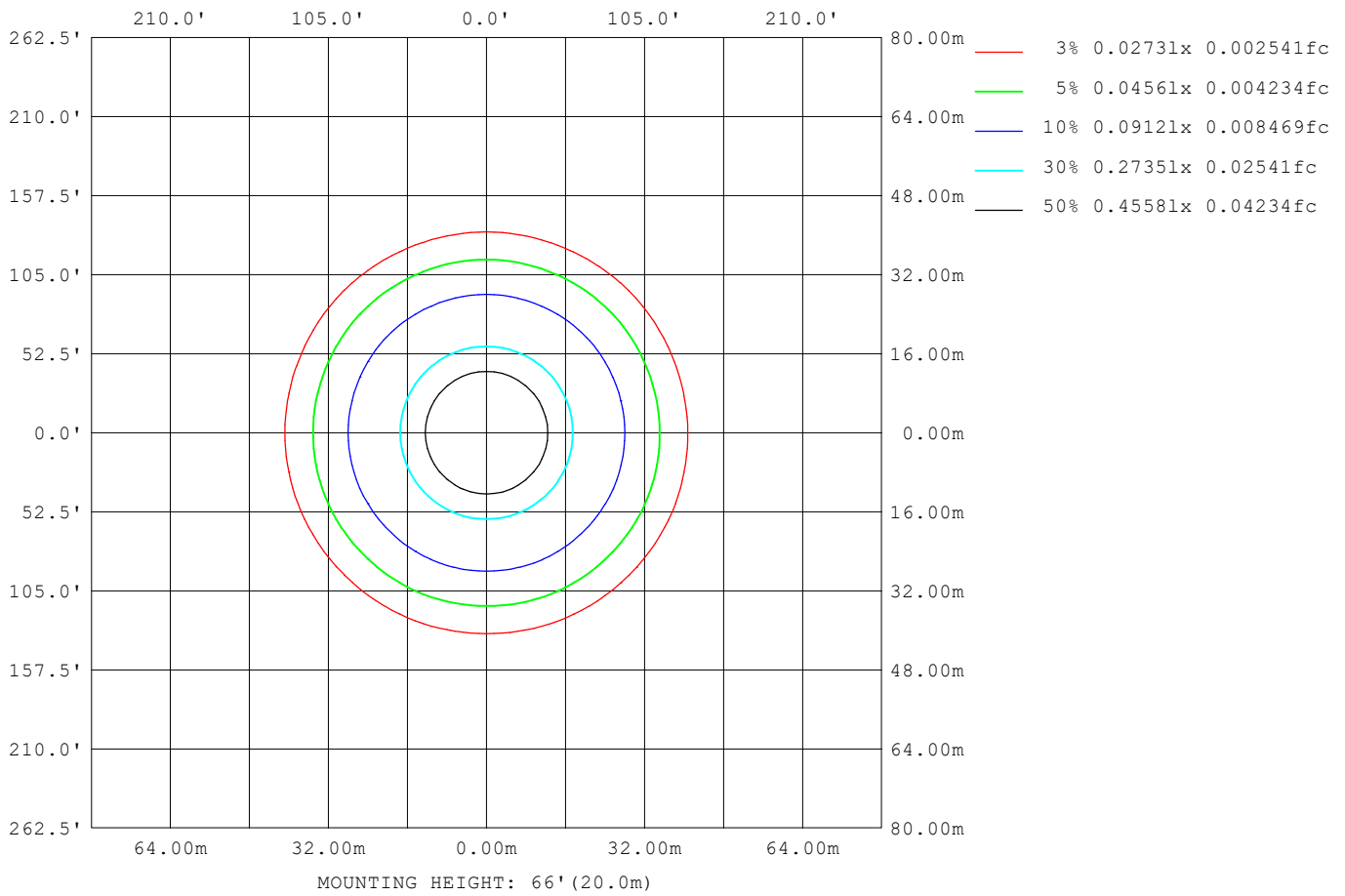
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1320A P:11.435W PF:0.9518 Freq:59.98Hz Lamp Flux:990.885x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:3000K 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:0.1320A P:11.435W PF:0.9518 Freq:59.98Hz Lamp Flux:990.885x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:3000K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

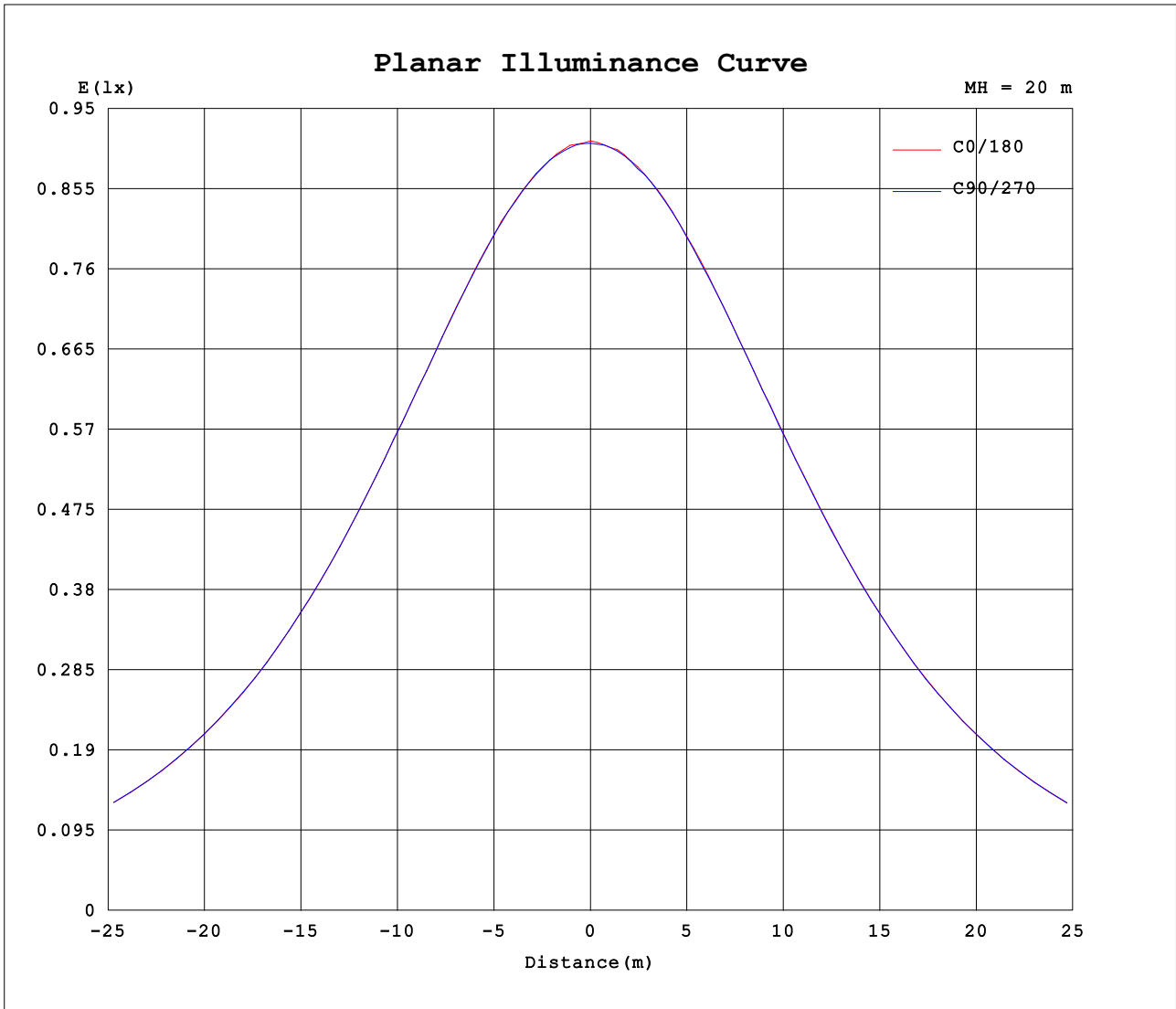
AvgL	cd/m2
L_0~180 (65) av	2566
L_0~180 (75) av	2054
L_0~180 (85) av	724
L_90~270 (65) av	2533
L_90~270 (75) av	1887
L_90~270 (85) av	206
L_45 (65) av	2564
L_45 (75) av	1977
L_45 (85) av	516

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:0.1320A P:11.435W PF:0.9518 Freq:59.98Hz Lamp Flux:990.885x1 lm		
NAME: LED-6-S12W-5CCTWH-R-BF	TYPE:	WEIGHT:
SPEC.:3000K 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	364	364	364	364	364	364	364	364	364	364	364	364	364	364	364	364			
5	362	362	362	362	362	362	362	362	361	362	362	361	362	362	362	362			
10	356	358	357	357	357	357	357	357	356	357	356	356	357	356	357	358			
15	348	349	348	349	349	348	348	348	347	348	348	347	348	348	348	349			
20	336	338	337	337	337	337	336	336	335	336	336	335	336	336	336	337			
25	321	323	322	322	322	322	321	321	321	321	321	321	321	321	321	322			
30	304	305	305	305	305	304	303	304	303	303	303	303	304	303	304	304			
35	283	285	284	285	284	284	284	283	282	283	283	282	283	283	283	284			
40	261	262	262	262	262	262	261	261	260	260	261	260	261	260	261	261			
45	236	238	237	238	237	237	236	237	236	236	236	236	236	236	237	237			
50	210	212	211	212	211	211	210	211	210	210	210	209	210	209	210	210			
55	182	184	183	184	183	183	182	183	182	182	182	181	182	181	182	181			
60	151	153	153	153	152	152	152	153	152	152	152	151	151	150	152	151			
65	120	122	121	121	119	120	120	121	121	121	121	118	119	118	120	120			
70	89.1	90.4	89.3	87.9	86.6	87.2	88.1	89.8	89.5	89.4	88.5	86.1	85.6	85.7	87.5	88.5			
75	58.9	59.4	57.7	56.1	54.8	55.3	56.6	58.8	59.3	58.6	57.0	54.3	53.8	53.9	56.1	57.7			
80	28.7	28.2	28.9	27.2	25.8	26.6	28.0	28.1	29.6	29.7	28.3	25.6	24.9	25.4	27.7	29.1			
85	6.90	5.88	5.14	2.75	2.22	2.71	5.12	5.70	7.13	6.31	4.81	2.00	1.77	1.97	4.92	6.55			
90	0.15	0.18	0.15	0.14	0.14	0.14	0.14	0.17	0.26	0.29	0.25	0.24	0.24	0.24	0.25	0.29			

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