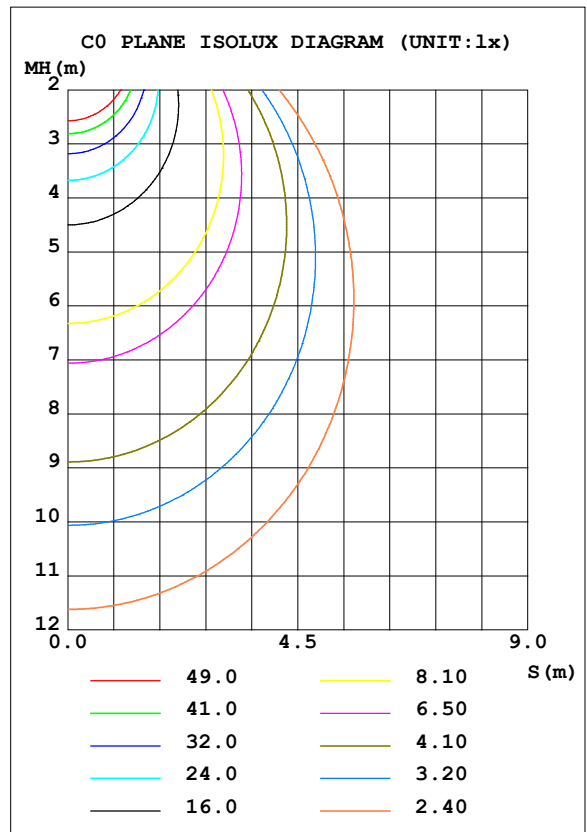
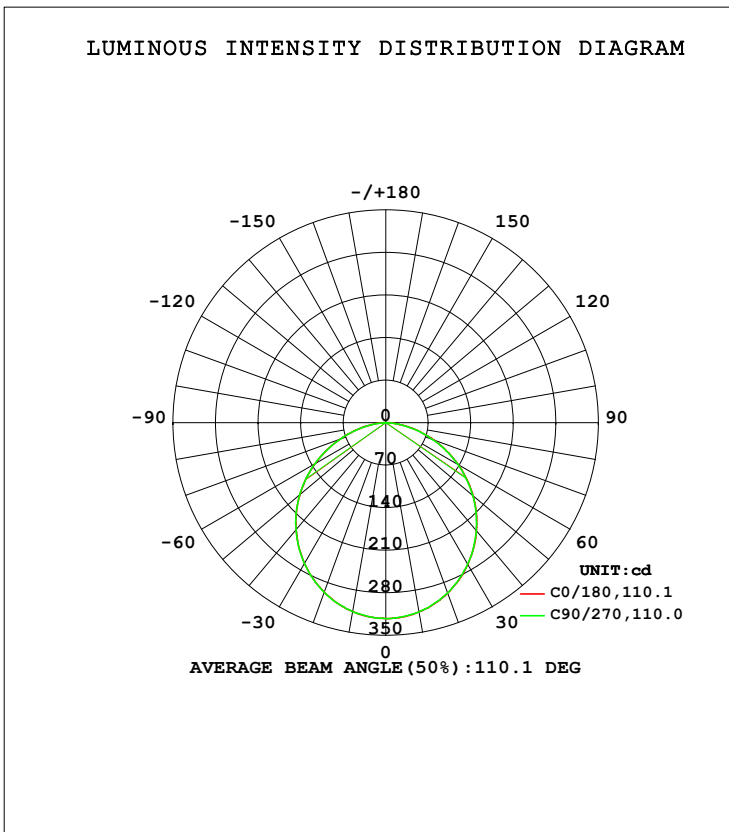


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.95V I:0.1339A P:11.676W PF:0.9480 Freq:59.98Hz Lamp Flux:891.946x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:2700K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 76.39 lm/W			
MODEL		I _{max} (cd)	322.8	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)	891.95	<input type="checkbox"/> UP, DN (C0-180)	0.0, 50.3
NOMINAL FLUX (lm)	891.946	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:

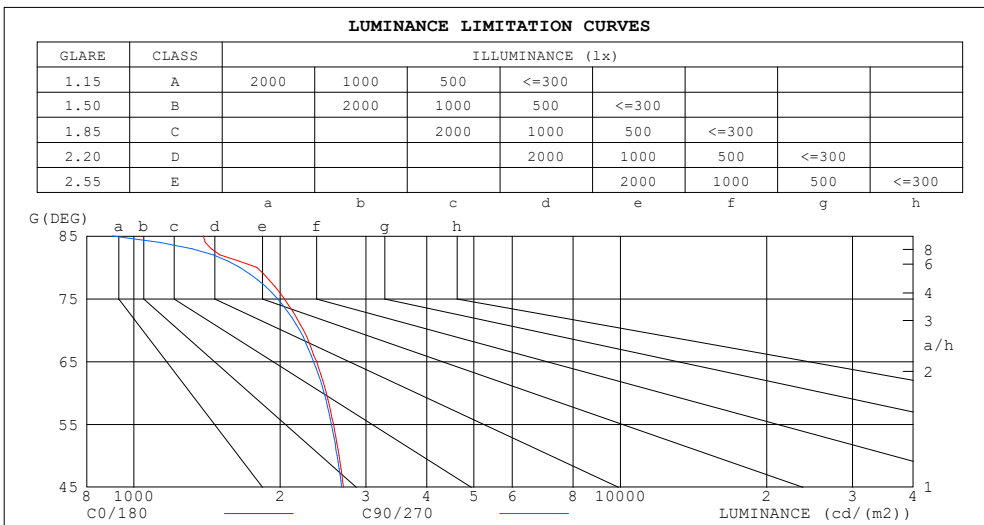
mm	C0	C45	C90	C135	C180	C225	C270	C315	mm	□ zone	□ total	%lum, lamp
10	316.4	316.6	315.9	315.8	315.3	315.4	315.6	316.3	0- 10	30.46	30.46	3.42,3.42
20	298.3	298.7	298.0	297.0	296.7	297.0	296.9	297.9	10- 20	86.96	117.4	13.2,13.2
30	269.9	270.9	269.3	268.3	267.5	267.8	267.9	269.4	20- 30	131.1	248.5	27.9,27.9
40	232.4	233.5	231.9	230.7	229.4	230.0	229.7	231.8	30- 40	157.0	405.6	45.5,45.5
50	187.7	189.1	187.0	185.6	184.4	185.2	185.1	187.3	40- 50	161.7	567.3	63.6,63.6
60	137.4	138.7	136.7	135.3	133.7	134.4	134.1	136.8	50- 60	144.5	711.8	79.8,79.8
70	84.46	85.93	83.35	81.84	80.25	81.10	80.25	82.72	60- 70	108.1	819.9	91.9,91.9
80	34.35	34.58	31.90	30.89	30.98	30.60	29.56	31.70	70- 80	59.55	879.4	98.6,98.6
90	0.1620	0.1558	0.1536	0.1570	0.2689	0.2747	0.2615	0.2612	80- 90	12.52	891.9	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:119.95V I:0.1339A P:11.676W PF:0.9480 Freq:59.98Hz Lamp Flux:891.946x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:2700K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1390	904
80	1790	1652
75	2039	1975
70	2234	2192
65	2374	2342
60	2487	2460
55	2574	2548
50	2641	2617
45	2698	2674

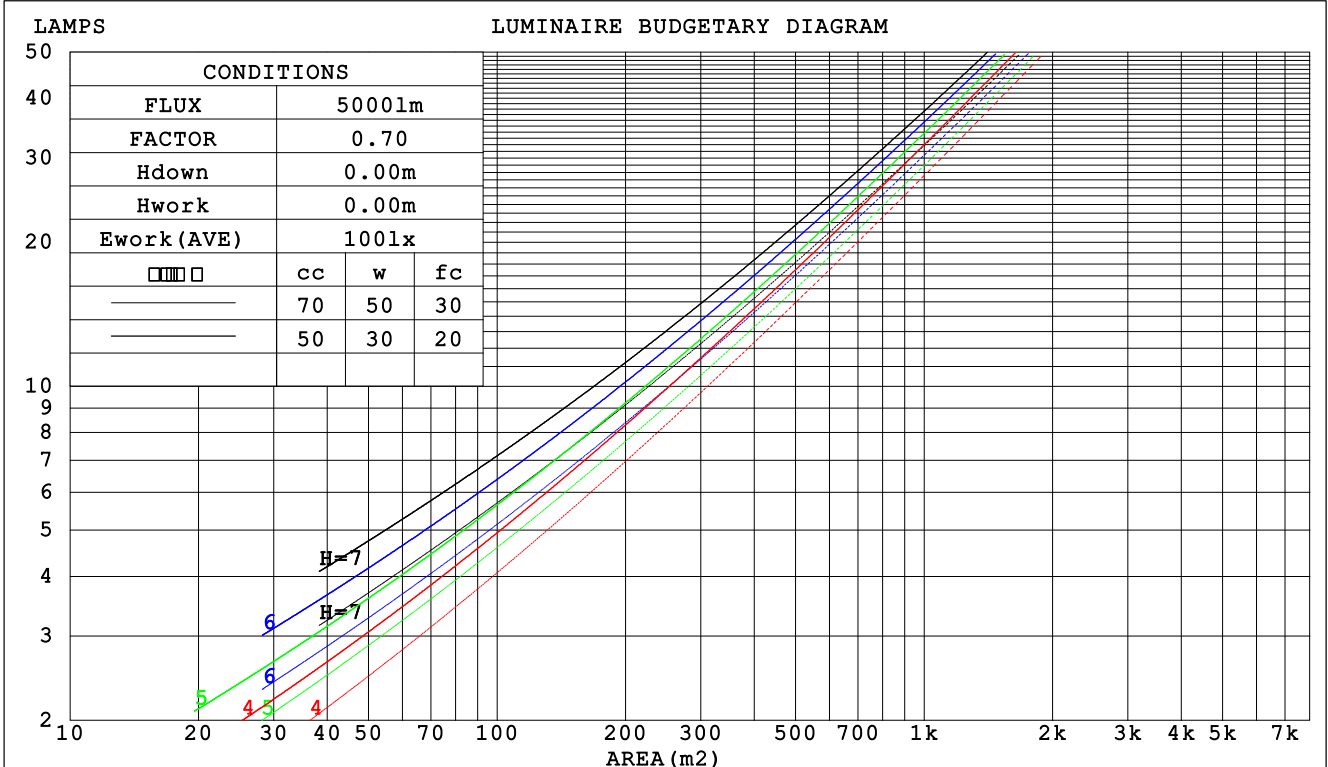
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-12-30

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:0.1339A P:11.676W PF:0.9480 Freq:59.98Hz Lamp Flux:891.946x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	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	1.04	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	.86	.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	.43	.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:0.1339A P:11.676W PF:0.9480 Freq:59.98Hz Lamp Flux:891.946x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	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	.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 .042	.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:0.1339A P:11.676W PF:0.9480 Freq:59.98Hz Lamp Flux:891.946x1 lm										
NAME: LED-6-S12W-5CCTWH-SQ					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	18.1	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	20.3	20.5	18.6	20.0	18.9	20.2	20.5
6H	19.1	20.3	19.4	20.6	20.9	19.0	20.2	19.3	20.5	20.8
8H	19.2	20.4	19.5	20.6	20.9	19.1	20.3	19.4	20.6	20.9
12H	19.2	20.4	19.5	20.7	21.0	19.1	20.2	19.4	20.5	20.8
4H 2H	17.2	18.6	17.6	18.8	19.1	17.2	18.6	17.5	18.8	19.1
3H	18.9	20.1	19.3	20.4	20.7	18.9	20.0	19.2	20.3	20.6
4H	19.6	20.7	20.0	21.0	21.3	19.6	20.6	19.9	20.9	21.3
6H	20.1	21.0	20.5	21.4	21.8	20.0	21.0	20.4	21.3	21.7
8H	20.2	21.1	20.6	21.5	21.8	20.2	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	19.9	20.7	20.3	21.1	21.5	19.8	20.7	20.2	21.1	21.4
6H	20.5	21.2	20.9	21.6	22.0	20.4	21.2	20.9	21.6	22.0
8H	20.7	21.3	21.1	21.7	22.2	20.6	21.3	21.1	21.7	22.2
12H	20.8	21.3	21.2	21.8	22.2	20.7	21.3	21.2	21.7	22.2
12H 4H	19.9	20.7	20.3	21.1	21.5	19.8	20.6	20.3	21.0	21.4
6H	20.5	21.2	21.0	21.6	22.1	20.5	21.1	20.9	21.5	22.0
8H	20.7	21.3	21.2	21.7	22.2	20.7	21.3	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, 891.9 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)
 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:0.1339A P:11.676W PF:0.9480 Freq:59.98Hz Lamp Flux:891.946x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:2700K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

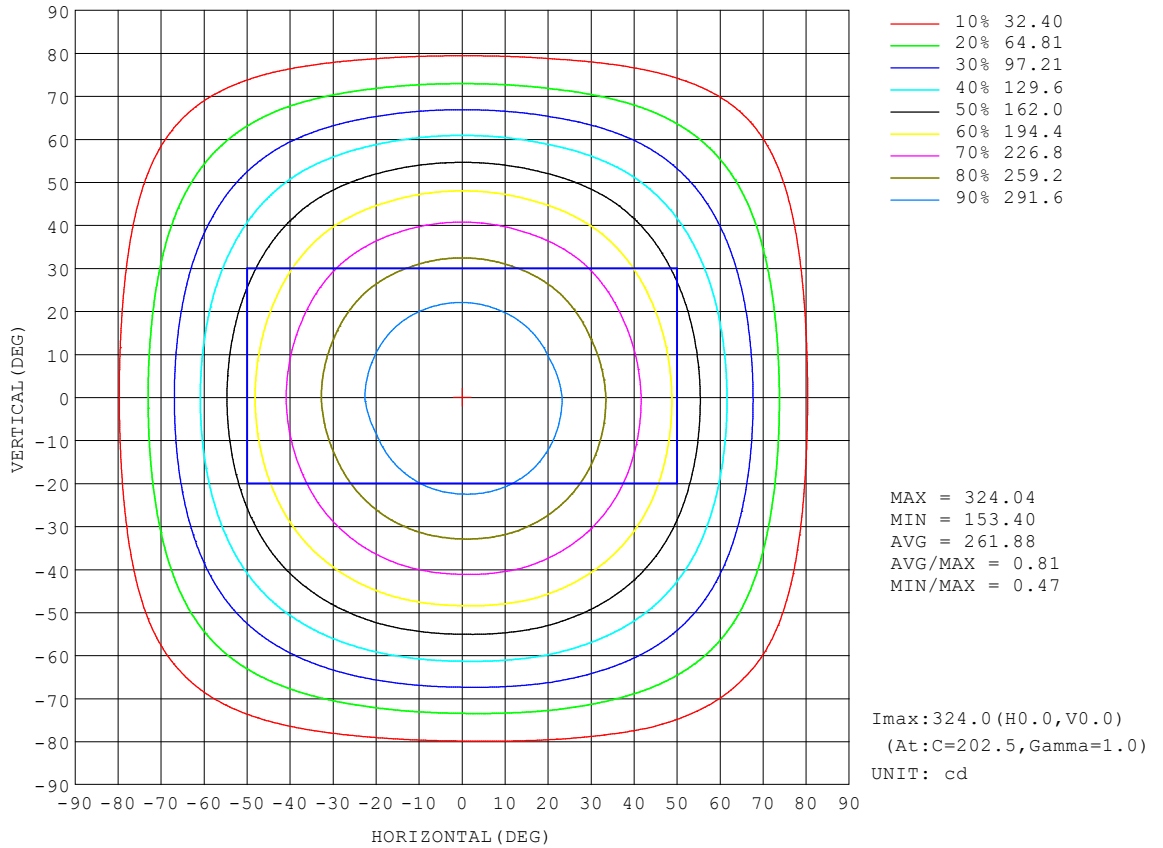
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	46	39	33
0.80	68	57	49	67	56	49	65	55	49	42
1.00	76	66	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:0.1339A P:11.676W PF:0.9480 Freq:59.98Hz Lamp Flux:891.946x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:2700K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

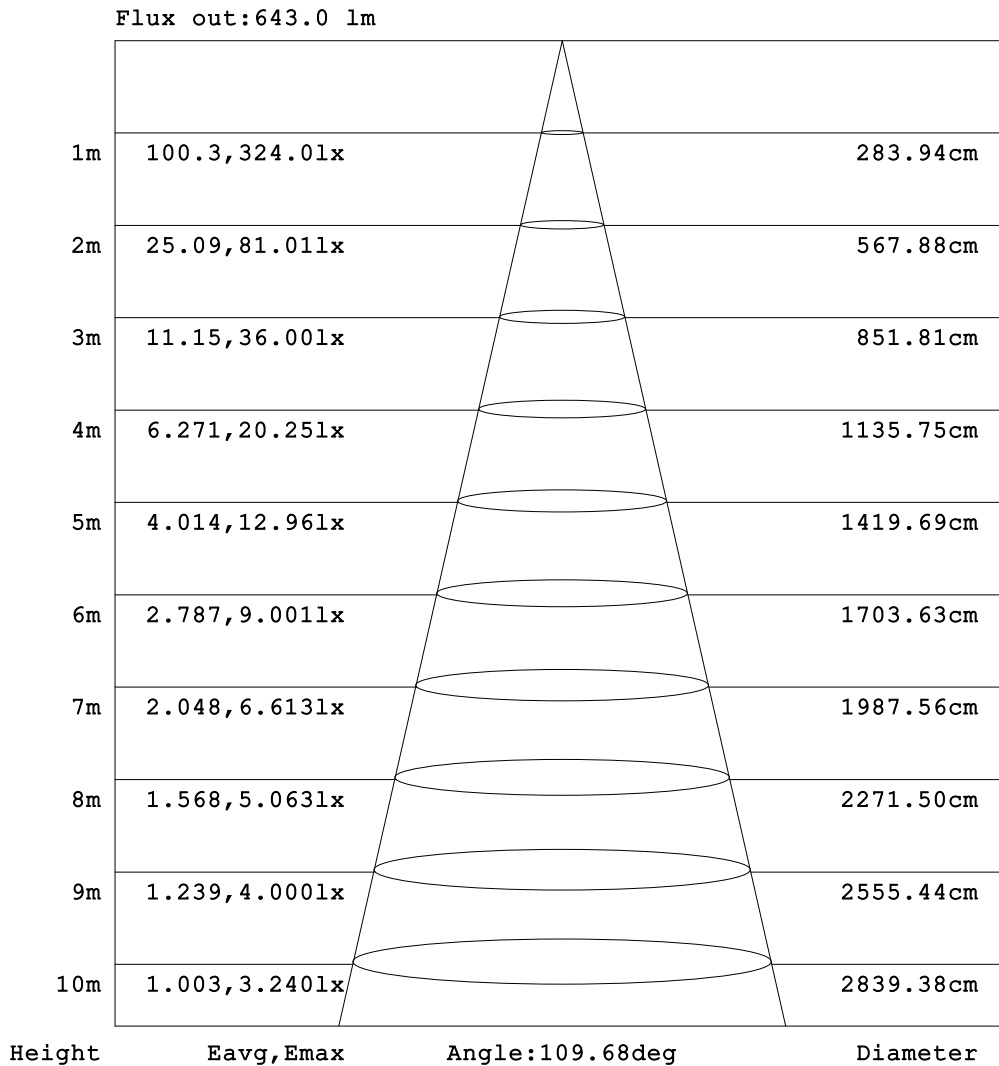


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-12-30

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:119.95V I:0.1339A P:11.676W PF:0.9480 Freq:59.98Hz Lamp Flux:891.946x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:2700K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



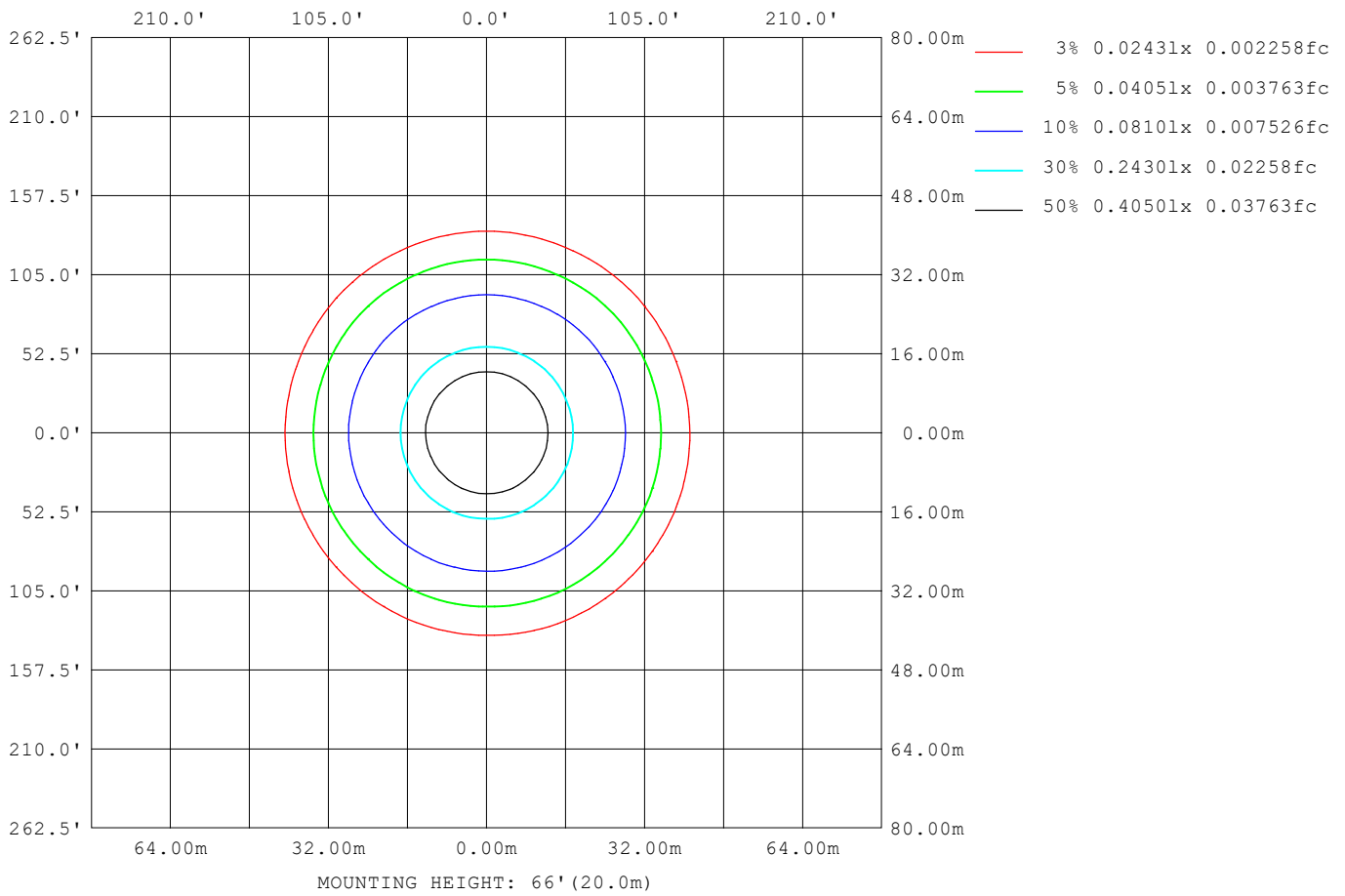
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:119.95V I:0.1339A P:11.676W PF:0.9480 Freq:59.98Hz Lamp Flux:891.946x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	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:119.95V I:0.1339A P:11.676W PF:0.9480 Freq:59.98Hz Lamp Flux:891.946x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:2700K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

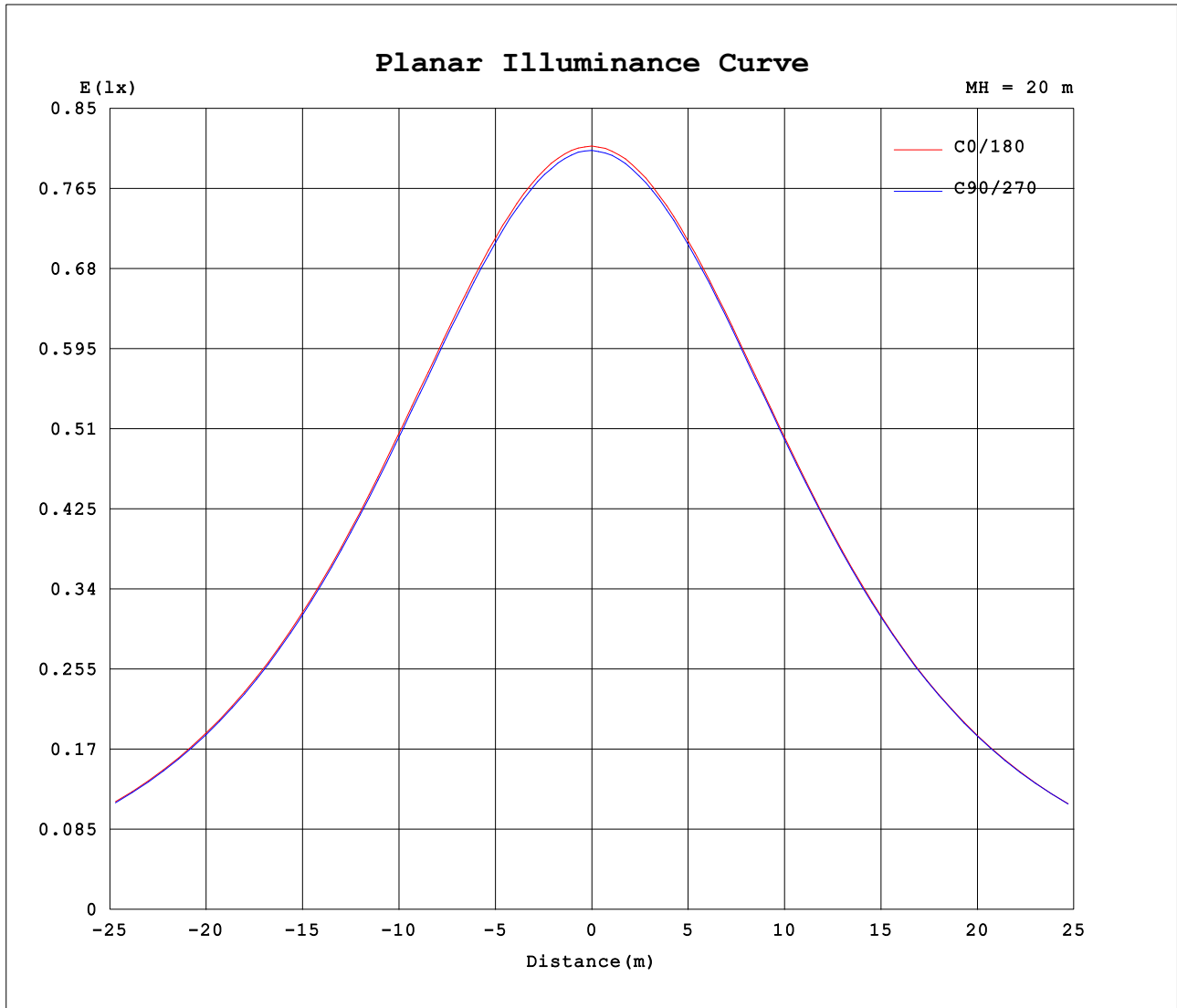
AvgL	cd/m2
L_0~180 (65) av	2321
L_0~180 (75) av	1960
L_0~180 (85) av	1258
L_90~270 (65) av	2314
L_90~270 (75) av	1926
L_90~270 (85) av	767
L_45 (65) av	2337
L_45 (75) av	1964
L_45 (85) av	1070

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:0.1339A P:11.676W PF:0.9480 Freq:59.98Hz Lamp Flux:891.946x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	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	0	322	322	322	322	322	322	322	322	322	322	322	322	322	322	322	322			
0	5	321	321	321	321	321	321	320	320	321	321	320	320	320	321	321	321			
0	10	316	317	317	317	316	316	316	315	315	315	315	315	316	316	316	316			
0	15	309	309	309	309	308	308	308	308	308	308	308	307	307	308	308	308			
0	20	298	299	299	299	298	298	297	297	297	297	297	297	297	297	298	298			
0	25	285	287	286	286	285	285	284	284	283	283	284	284	284	284	285	285			
0	30	270	271	271	271	269	269	268	268	268	268	268	268	268	268	269	270			
0	35	252	253	253	253	252	251	251	250	250	250	250	250	250	250	252	252			
0	40	232	234	234	234	232	232	231	230	229	229	230	230	230	230	232	232			
0	45	211	213	212	213	210	210	209	209	208	207	209	208	208	208	211	210			
0	50	188	189	189	189	187	187	186	185	184	184	185	184	185	185	187	187			
0	55	163	165	165	165	162	162	161	161	160	159	161	160	160	160	163	163			
0	60	137	139	139	139	137	137	135	135	134	133	134	134	134	134	137	137			
0	65	111	112	112	113	110	110	109	108	107	107	108	107	107	108	110	110			
0	70	84.5	85.6	85.9	85.6	83.3	82.6	81.8	81.3	80.3	80.2	81.1	80.4	80.2	80.7	82.7	83.7			
0	75	58.3	59.4	59.6	58.9	56.8	56.0	55.3	55.2	54.4	54.4	54.8	54.0	53.9	54.3	56.2	57.3			
0	80	34.3	32.4	34.6	33.7	31.9	31.3	30.9	29.2	31.0	30.7	30.6	29.6	29.6	29.9	31.7	33.1			
0	85	13.4	10.3	11.9	10.1	8.75	8.97	9.89	8.14	11.0	10.7	9.16	6.81	6.11	7.34	10.5	12.8			
0	90	0.16	0.18	0.16	0.16	0.15	0.15	0.16	0.18	0.27	0.28	0.27	0.27	0.26	0.26	0.26	0.29			

C Range: 0 - 360DEG	<input type="checkbox"/> Range: 0 - 90DEG
C Interval: 22.5DEG	<input type="checkbox"/> Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Temperature:25.3DEG	Humidity:65.0%
Operators:	Test Distance:3.080m [K=1.0000]
Test Date:2021-12-30	Remarks: PORTER