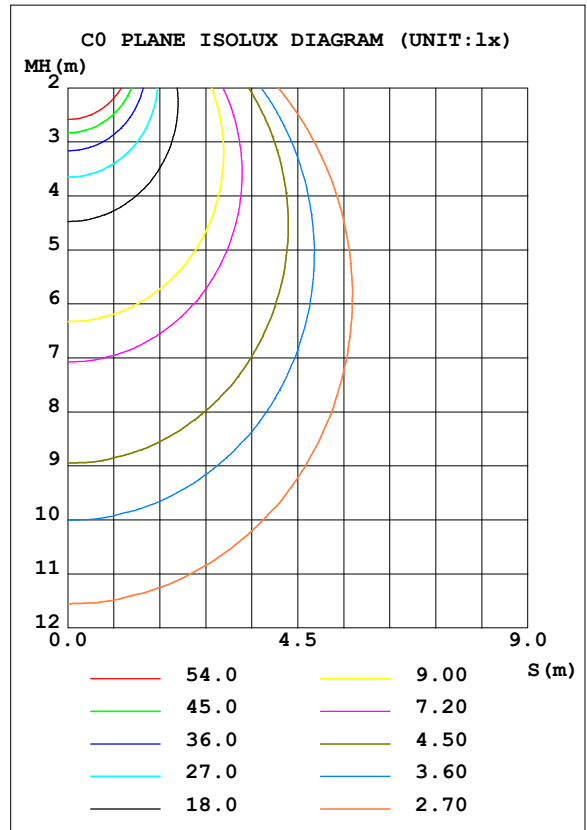
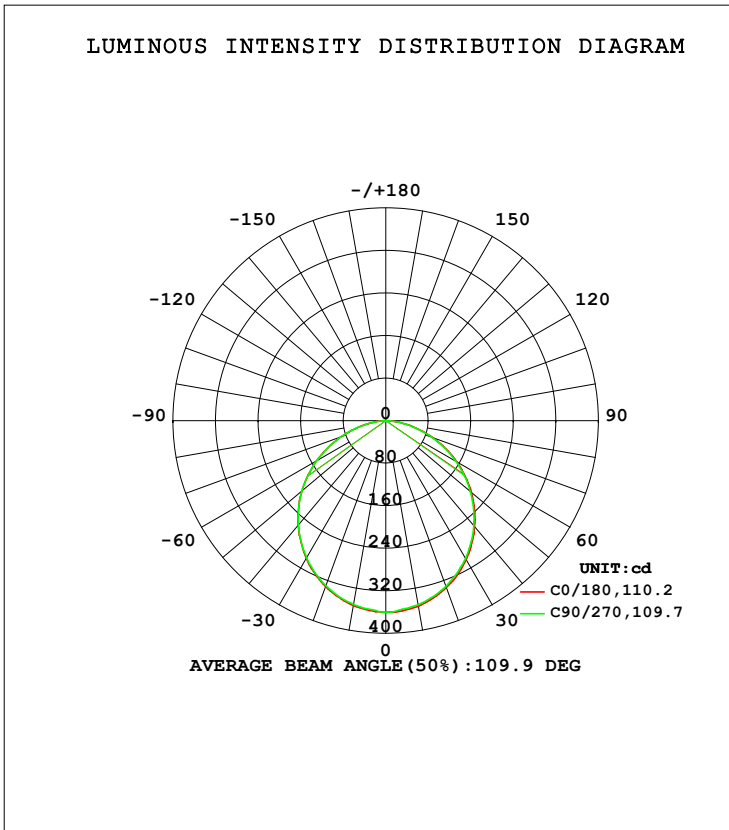


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.95V I:0.1273A P:11.024W PF:0.9504 Freq:59.98Hz Lamp Flux:997.29x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:3500K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 90.46 lm/W			
MODEL		Imax (cd)	362.1	S/MH (C0/180)	1.24
NOMINAL POWER (W)	12	LOR (%)	100.0	S/MH (C90/270)	1.23
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	997.29	<input type="checkbox"/> UP, DN (C0-180)	0.0,50.3
NOMINAL FLUX (lm)	997.29	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:

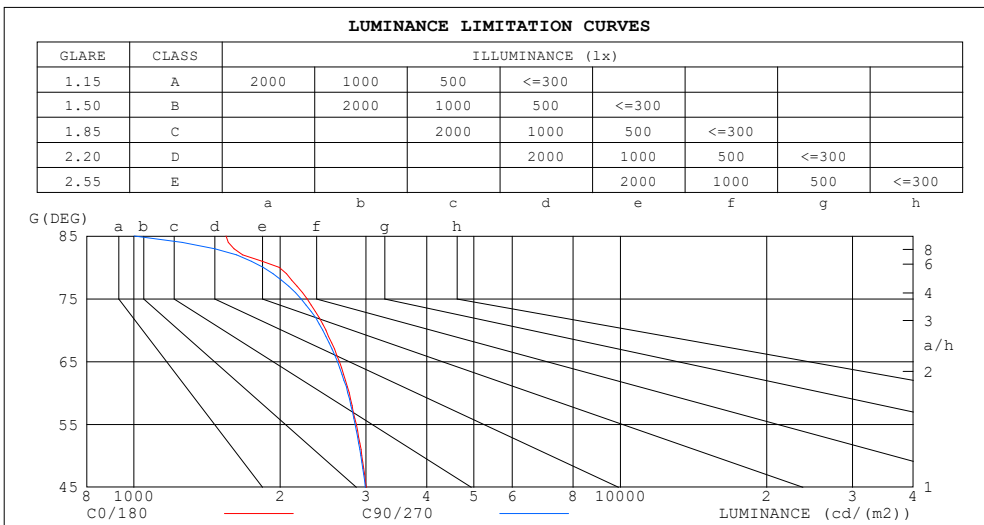
mm	C0	C45	C90	C135	C180	C225	C270	C315	mm	□ zone	□ total	%lum, lamp
10	354.3	354.1	351.3	352.9	353.1	353.2	350.7	353.6	0- 10	34.06	34.06	3.42,3.42
20	333.9	334.4	331.3	332.3	331.9	332.7	330.1	333.8	10- 20	97.23	131.3	13.2,13.2
30	302.2	302.7	299.6	300.4	299.1	301.5	297.9	301.3	20- 30	146.6	277.9	27.9,27.9
40	260.1	261.1	257.8	258.2	256.6	257.4	255.7	259.5	30- 40	175.5	453.4	45.5,45.5
50	210.0	211.6	207.9	207.5	206.2	207.4	205.9	209.7	40- 50	180.7	634.2	63.6,63.6
60	154.1	155.7	151.9	151.4	149.4	150.7	149.3	153.3	50- 60	161.6	795.8	79.8,79.8
70	94.33	95.95	92.39	91.46	89.66	90.91	89.42	92.88	60- 70	120.9	916.7	91.9,91.9
80	38.42	38.60	35.39	34.60	34.64	34.45	32.99	35.61	70- 80	66.60	983.3	98.6,98.6
90	0.1800	0.1717	0.1652	0.1758	0.3001	0.3023	0.2873	0.2918	80- 90	13.99	997.3	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:0.1273A P:11.024W PF:0.9504 Freq:59.98Hz Lamp Flux:997.29x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:3500K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1548	1002
80	1991	1846
75	2270	2207
70	2482	2446
65	2645	2620
60	2773	2750
55	2868	2851
50	2940	2929
45	3007	2990

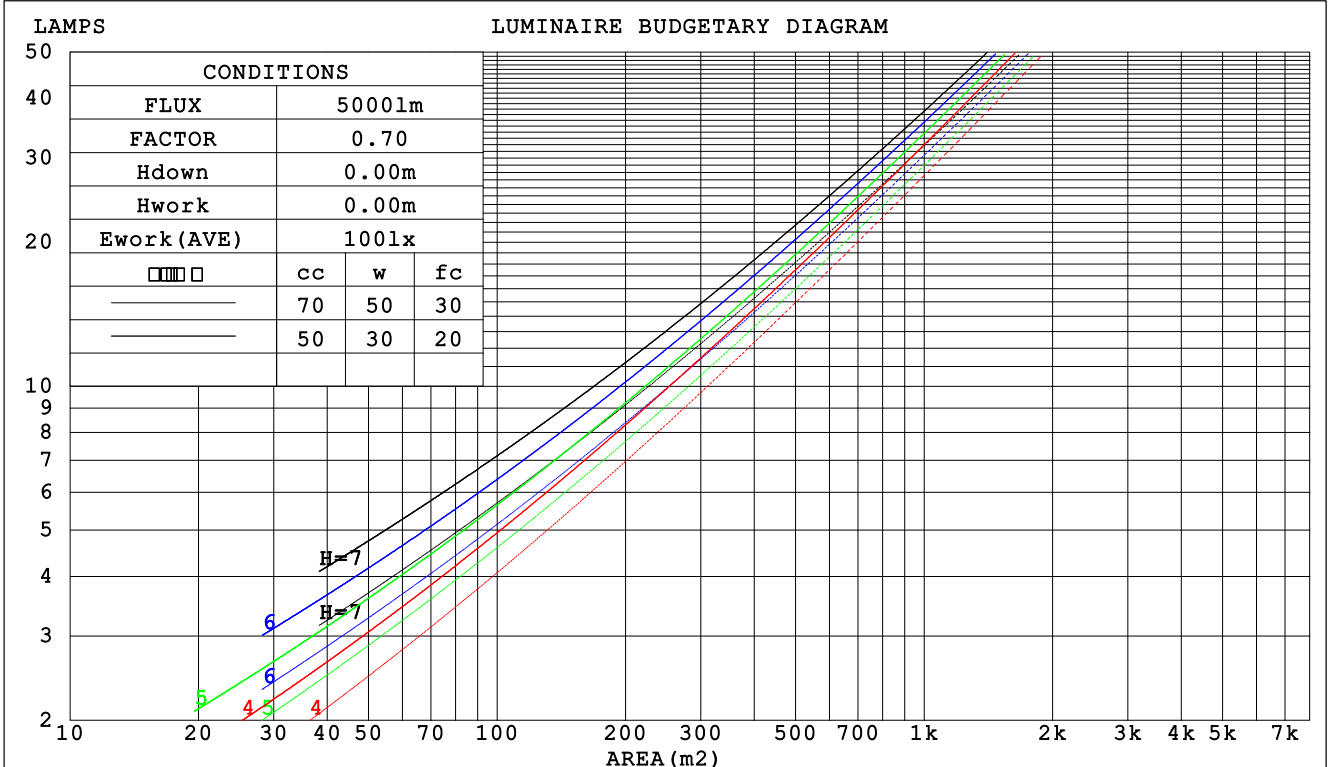
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-12-30

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:0.1273A P:11.024W PF:0.9504 Freq:59.98Hz Lamp Flux:997.29x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:3500K 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	1.04	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	.85	.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:0.1273A P:11.024W PF:0.9504 Freq:59.98Hz Lamp Flux:997.29x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:3500K 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 .043	.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:0.1273A P:11.024W PF:0.9504 Freq:59.98Hz Lamp Flux:997.29x1 lm										
NAME: LED-6-S12W-5CCTWH-SQ					TYPE:			WEIGHT:		
SPEC.:3500K 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	18.1	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	20.2	20.5	18.6	19.9	18.9	20.2	20.5
6H	19.0	20.3	19.4	20.6	20.8	19.0	20.2	19.3	20.5	20.8
8H	19.1	20.3	19.5	20.6	20.9	19.1	20.3	19.4	20.6	20.8
12H	19.2	20.3	19.5	20.6	20.9	19.1	20.2	19.4	20.5	20.8
4H 2H	17.2	18.5	17.5	18.8	19.1	17.2	18.5	17.5	18.8	19.0
3H	18.9	20.0	19.2	20.3	20.6	18.9	20.0	19.2	20.3	20.6
4H	19.6	20.6	20.0	21.0	21.3	19.5	20.6	19.9	20.9	21.3
6H	20.1	21.0	20.5	21.4	21.7	20.0	21.0	20.4	21.3	21.7
8H	20.2	21.1	20.6	21.4	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	19.8	20.7	20.2	21.1	21.5	19.8	20.7	20.2	21.0	21.4
6H	20.5	21.2	20.9	21.6	22.0	20.4	21.1	20.9	21.5	22.0
8H	20.6	21.3	21.1	21.7	22.1	20.6	21.3	21.1	21.7	22.1
12H	20.7	21.3	21.2	21.7	22.2	20.7	21.3	21.2	21.7	22.2
12H 4H	19.8	20.6	20.3	21.0	21.4	19.8	20.6	20.2	21.0	21.4
6H	20.5	21.1	21.0	21.6	22.0	20.5	21.1	20.9	21.5	22.0
8H	20.7	21.2	21.2	21.7	22.2	20.7	21.2	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, 997.3 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:119.95V I:0.1273A P:11.024W PF:0.9504 Freq:59.98Hz Lamp Flux:997.29x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:3500K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

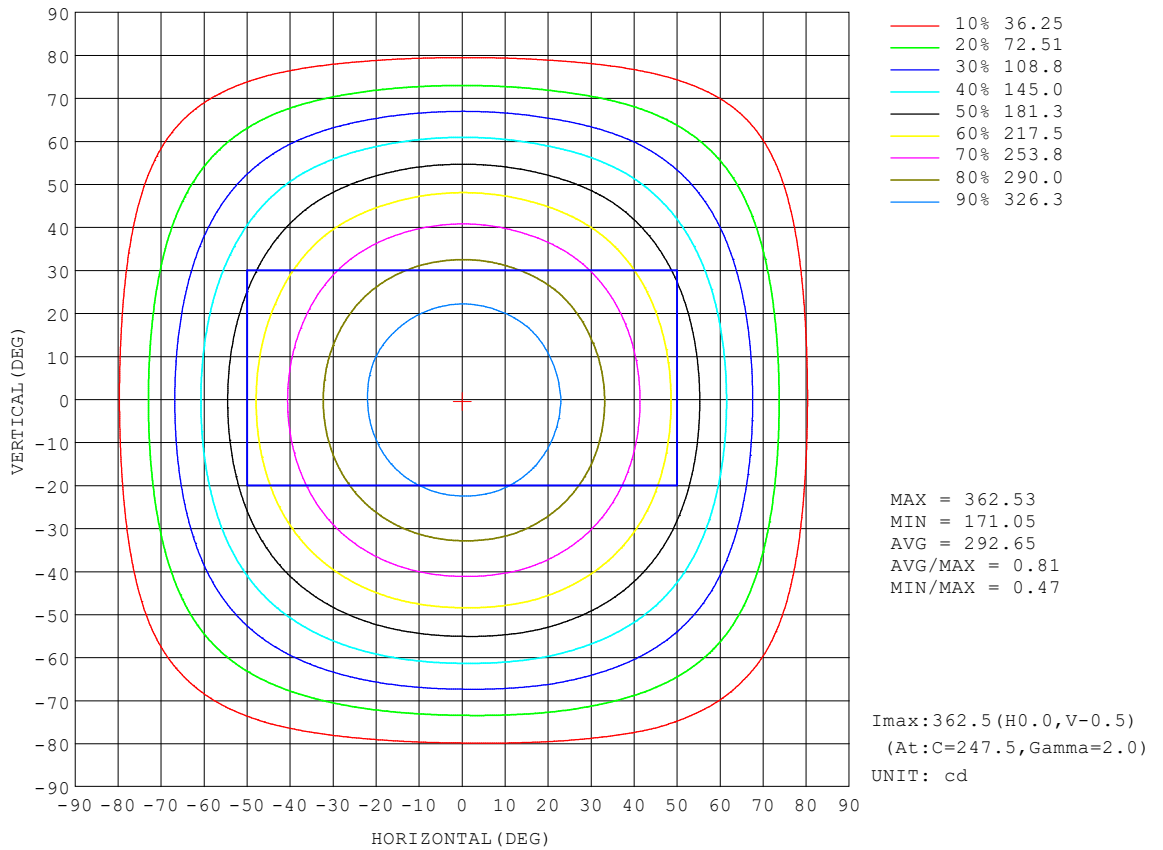
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	46	39	33
0.80	68	57	49	67	56	49	65	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:0.1273A P:11.024W PF:0.9504 Freq:59.98Hz Lamp Flux:997.29x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:3500K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

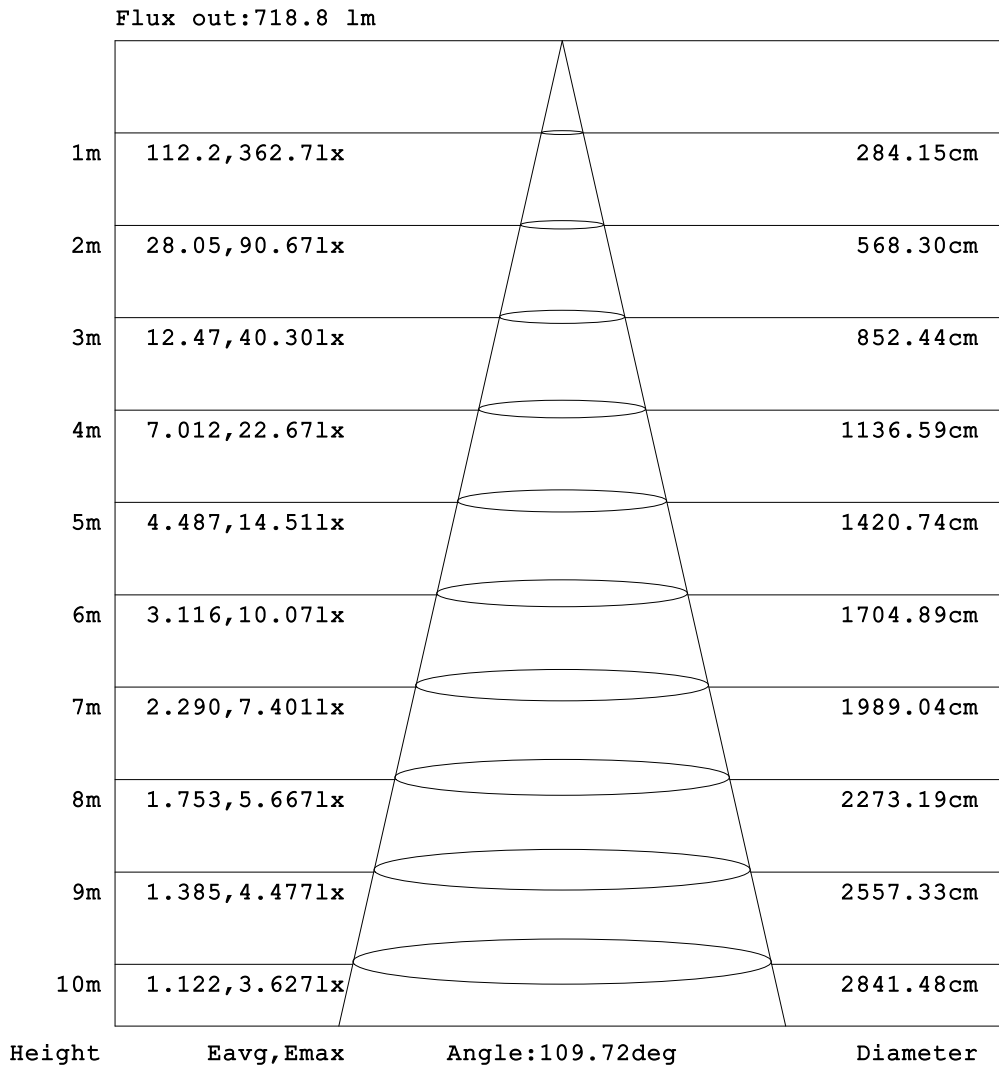


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-12-30

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:0.1273A P:11.024W PF:0.9504 Freq:59.98Hz Lamp Flux:997.29x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:3500K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



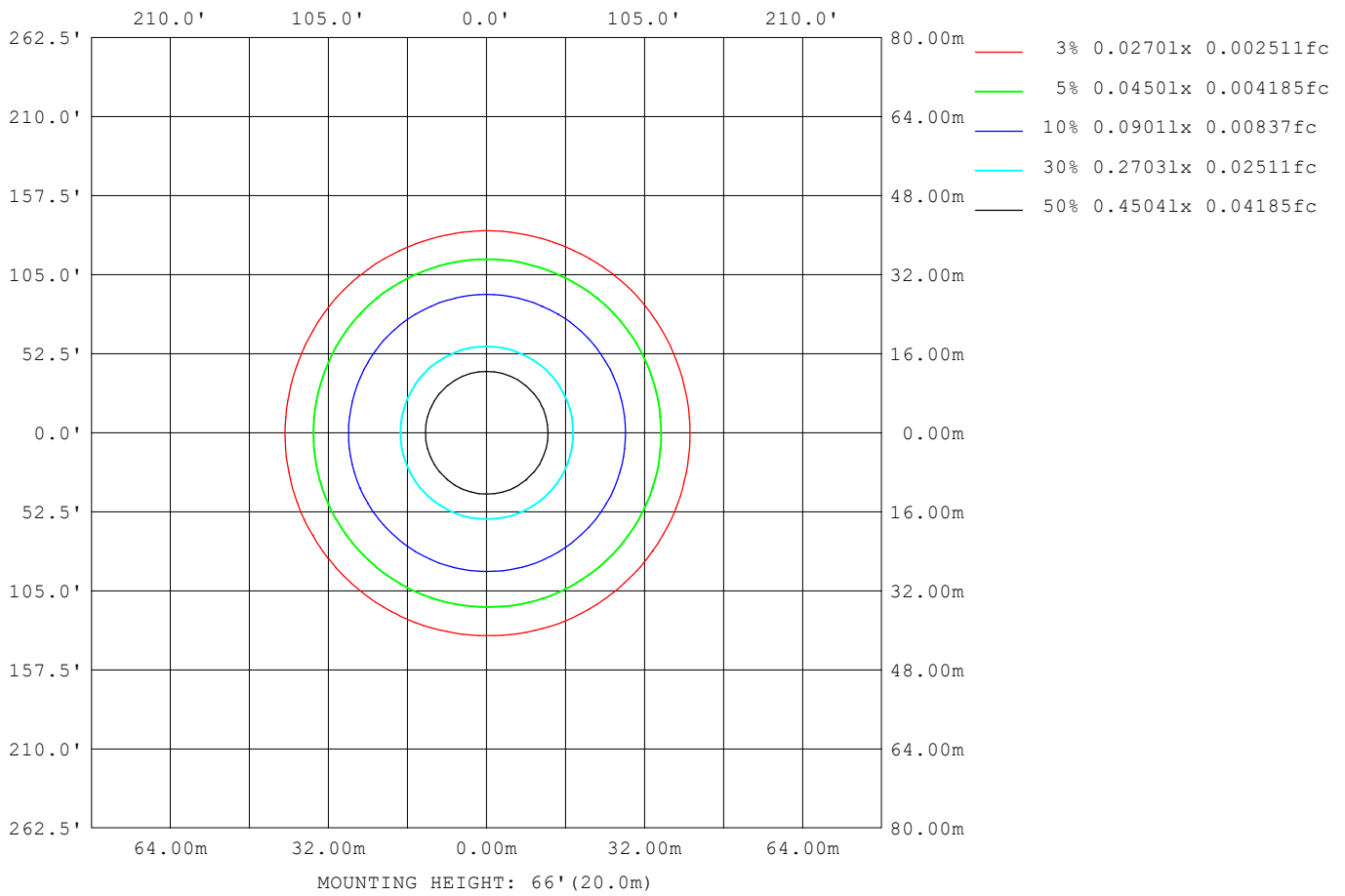
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1273A P:11.024W PF:0.9504 Freq:59.98Hz Lamp Flux:997.29x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:3500K 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:0.1273A P:11.024W PF:0.9504 Freq:59.98Hz Lamp Flux:997.29x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:3500K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

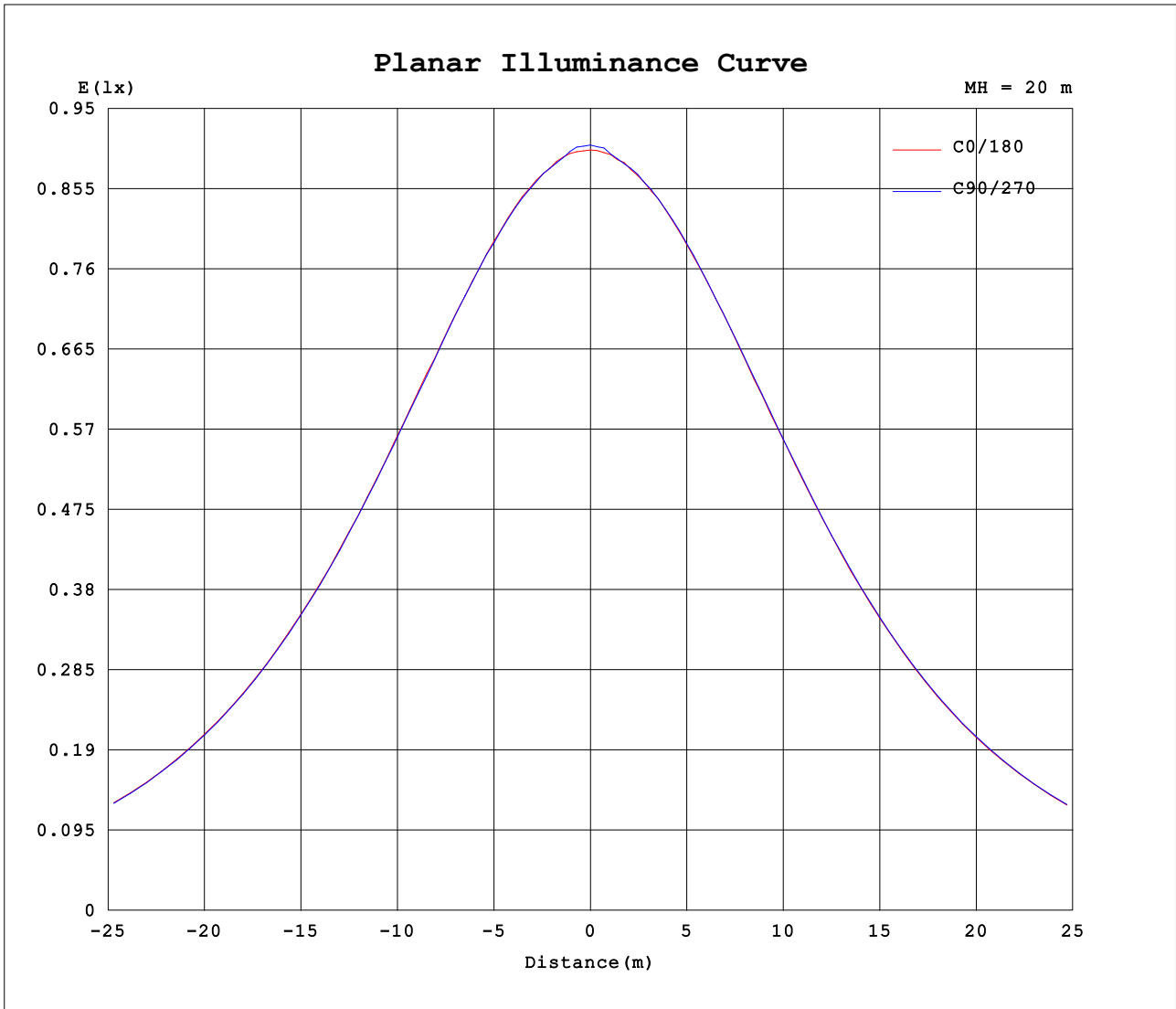
AvgL	cd/m2
L_0~180 (65) av	2596
L_0~180 (75) av	2192
L_0~180 (85) av	1406
L_90~270 (65) av	2576
L_90~270 (75) av	2142
L_90~270 (85) av	856
L_45 (65) av	2618
L_45 (75) av	2200
L_45 (85) av	1207

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:0.1273A P:11.024W PF:0.9504 Freq:59.98Hz Lamp Flux:997.29x1 lm		
NAME: LED-6-S12W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:3500K 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	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360			
5	359	359	359	359	356	359	359	358	359	358	358	360	356	358	359	359			
10	354	354	354	354	351	353	353	353	353	353	353	355	351	353	354	354			
15	346	346	346	346	343	345	344	344	344	344	344	344	342	345	345	346			
20	334	334	334	334	331	333	332	333	332	332	333	333	330	333	334	334			
25	320	320	320	320	317	319	318	317	316	317	317	318	315	318	319	320			
30	302	303	303	303	300	301	300	300	299	299	302	300	298	301	301	302			
35	282	283	283	283	279	281	280	280	279	278	280	280	278	280	282	282			
40	260	261	261	261	258	259	258	257	257	256	257	257	256	258	260	260			
45	236	237	237	237	233	235	234	233	232	232	233	233	232	234	236	236			
50	210	212	212	212	208	209	208	208	206	206	207	207	206	208	210	210			
55	183	184	185	185	181	181	180	180	179	178	180	179	178	180	182	182			
60	154	155	156	156	152	153	151	151	149	149	151	150	149	150	153	153			
65	124	126	126	126	122	123	121	121	120	119	121	120	120	121	123	124			
70	94.3	95.6	95.9	95.6	92.4	92.4	91.5	90.9	89.7	89.6	90.9	90.3	89.4	90.4	92.9	93.7			
75	65.3	66.4	66.6	65.8	63.1	62.6	61.8	61.7	60.8	60.8	61.6	60.7	60.1	60.9	63.0	64.4			
80	38.4	36.1	38.6	37.6	35.4	35.0	34.6	32.2	34.6	34.5	34.4	33.4	33.0	33.8	35.6	37.2			
85	15.0	11.5	13.2	11.2	9.64	10.0	11.3	8.85	12.2	12.0	10.4	7.99	6.93	8.26	11.8	14.4			
90	0.18	0.19	0.17	0.17	0.17	0.17	0.18	0.21	0.30	0.31	0.30	0.30	0.29	0.29	0.29	0.32			

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