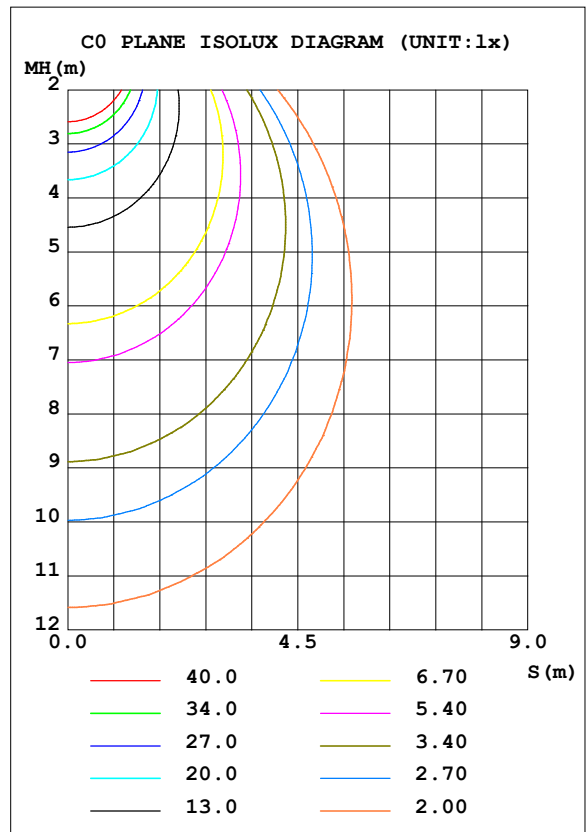
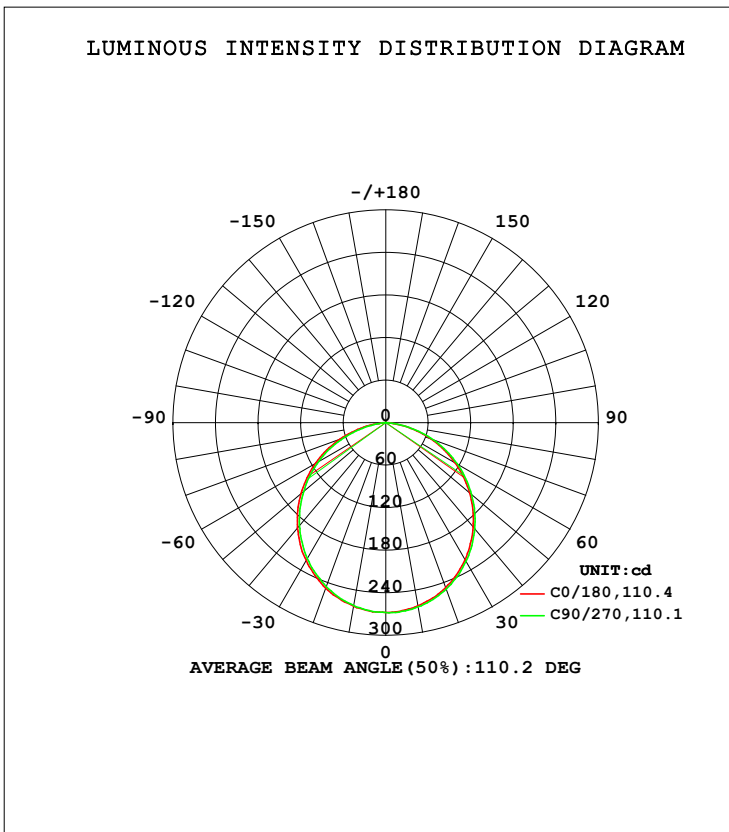


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:119.97V I:0.1135A P:8.4654W PF:0.8931 Freq:59.98Hz Lamp Flux:736.444x1 lm		
NAME: LED-S9W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:3500K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 86.99 lm/W			
MODEL		I <sub>max</sub> (cd)	268.4	S/MH (C0/180)	1.25
NOMINAL POWER (W)	9	LOR (%)	100.0	S/MH (C90/270)	1.24
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	736.44	<input type="checkbox"/> UP, DN (C0-180)	0.0, 50.9
NOMINAL FLUX (lm)	736.444	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.0, 49.1
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:

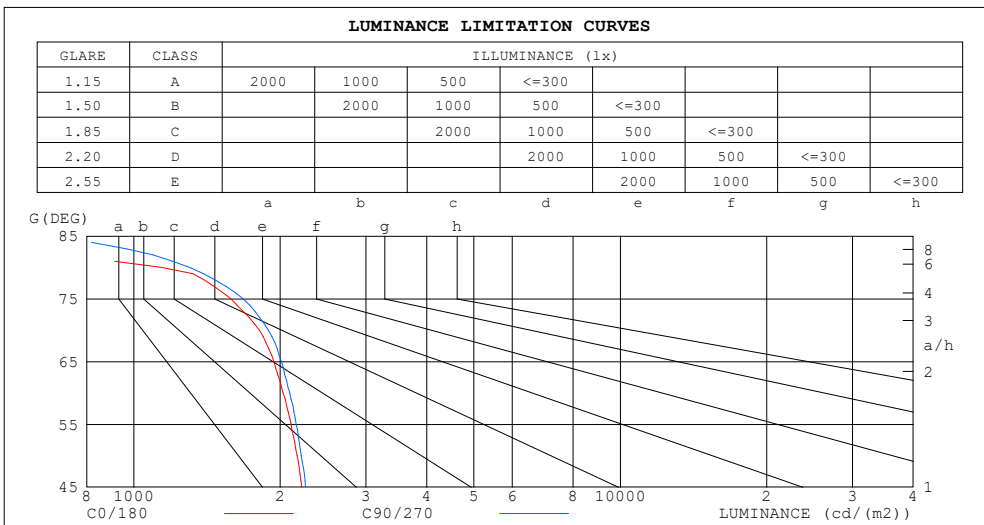
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	262.3	263.1	263.7	263.9	262.8	262.1	262.0	262.3	0- 10	25.33	25.33	3.44,3.44
20	247.5	248.7	249.7	249.4	248.4	246.7	246.1	246.7	10- 20	72.37	97.70	13.3,13.3
30	223.6	225.3	226.3	226.1	224.4	222.4	221.6	222.0	20- 30	109.2	206.8	28.1,28.1
40	192.3	193.8	195.3	195.0	193.7	190.7	189.6	190.1	30- 40	130.8	337.6	45.8,45.8
50	154.5	156.2	158.0	157.2	156.4	152.7	151.3	151.7	40- 50	134.3	471.9	64.1,64.1
60	112.4	114.2	116.3	115.5	114.3	110.3	109.3	109.6	50- 60	119.9	591.8	80.4,80.4
70	68.75	70.39	71.91	71.25	69.14	65.63	63.13	65.39	60- 70	89.69	681.5	92.5,92.5
80	21.94	26.71	25.14	26.32	22.52	21.12	17.40	20.65	70- 80	47.48	729.0	99,99
90	0.1266	0.1254	0.1099	0.1220	0.2029	0.2181	0.2151	0.2199	80- 90	7.482	736.4	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:119.97V I:0.1135A P:8.4654W PF:0.8931 Freq:59.98Hz Lamp Flux:736.444x1 lm		
NAME: LED-S9W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:3500K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	524	615
80	1139	1302
75	1582	1677
70	1812	1891
65	1939	2010
60	2028	2091
55	2105	2158
50	2167	2211
45	2216	2253

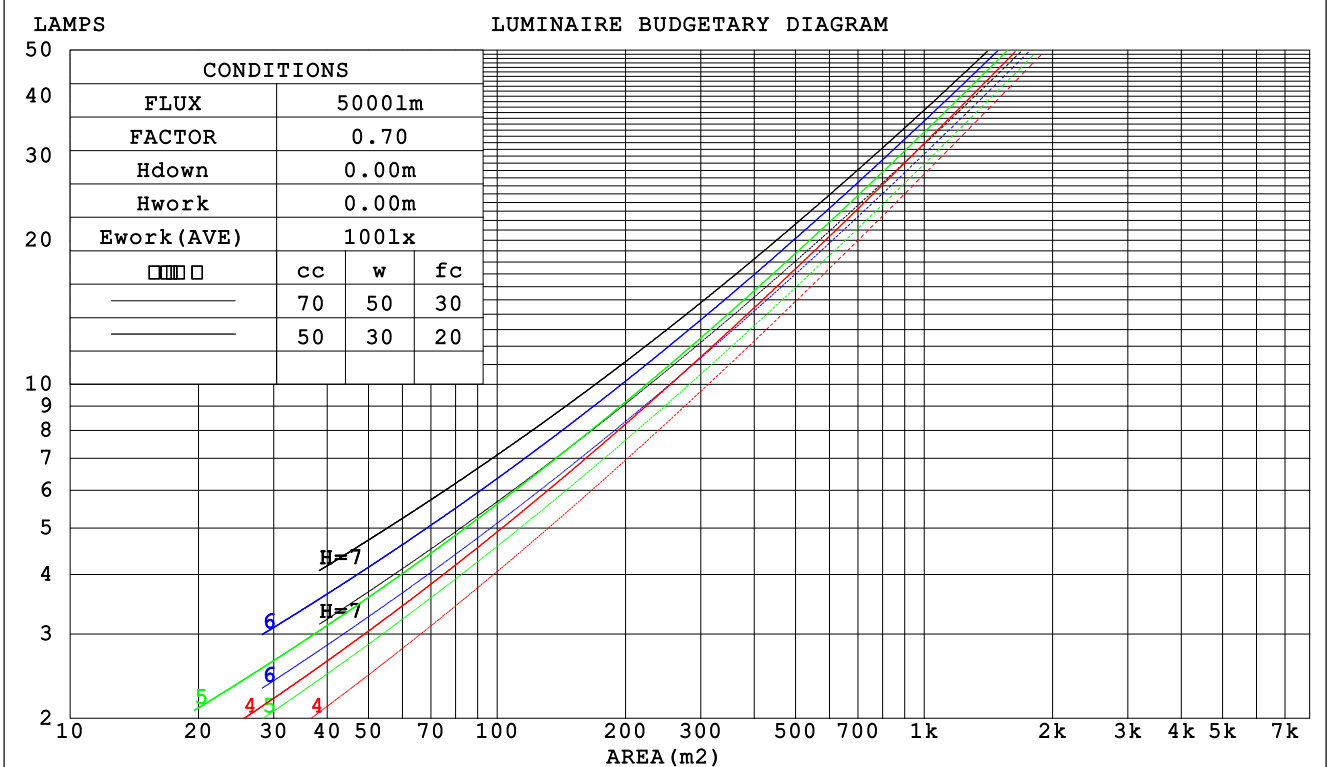
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-12-30

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:119.97V I:0.1135A P:8.4654W PF:0.8931 Freq:59.98Hz Lamp Flux:736.444x1 lm		
NAME: LED-S9W-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	.00
1.0	1.05	1.00	.97	1.02	.99	.95	.98	.95	.92	.94	.92	.89	.91	.89	.87	.85
2.0	.91	.85	.79	.89	.83	.78	.86	.81	.76	.83	.78	.74	.80	.76	.73	.71
3.0	.80	.72	.66	.79	.71	.65	.76	.69	.64	.73	.67	.63	.70	.66	.62	.60
4.0	.71	.62	.56	.70	.62	.55	.67	.60	.55	.65	.59	.54	.63	.57	.53	.51
5.0	.63	.55	.48	.62	.54	.48	.60	.53	.47	.58	.52	.47	.56	.51	.46	.44
6.0	.57	.48	.42	.56	.48	.42	.54	.47	.41	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.37	.48	.41	.36	.47	.41	.36	.34
8.0	.47	.39	.33	.47	.39	.33	.45	.38	.33	.44	.37	.32	.43	.37	.32	.30
9.0	.43	.35	.30	.43	.35	.30	.42	.34	.29	.41	.34	.29	.40	.34	.29	.27
10.0	.40	.32	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.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:119.97V I:0.1135A P:8.4654W PF:0.8931 Freq:59.98Hz Lamp Flux:736.444x1 lm		
NAME: LED-S9W-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	.297 .169 .054	.290 .166 .053	.277 .159 .051	.265 .153 .049	.254 .147 .047	
2.0	.284 .156 .048	.278 .153 .047	.266 .148 .046	.256 .143 .045	.246 .139 .044	
3.0	.265 .141 .042	.259 .139 .042	.249 .135 .041	.239 .131 .040	.231 .128 .040	
4.0	.245 .128 .037	.241 .126 .037	.231 .123 .037	.223 .120 .036	.215 .117 .036	
5.0	.227 .116 .034	.223 .115 .033	.215 .112 .033	.208 .109 .033	.200 .107 .032	
6.0	.211 .106 .030	.208 .105 .030	.200 .103 .030	.194 .101 .030	.187 .099 .029	
7.0	.197 .097 .028	.194 .096 .027	.187 .095 .027	.181 .093 .027	.175 .091 .027	
8.0	.184 .090 .025	.181 .089 .025	.175 .088 .025	.170 .086 .025	.165 .085 .025	
9.0	.173 .084 .023	.170 .083 .023	.165 .082 .023	.160 .080 .023	.155 .079 .023	
10.0	.163 .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 .135	.154 .134 .116	.105 .092 .081	.060 .053 .047	.019 .017 .015	
2.0	.171 .132 .099	.147 .114 .086	.100 .079 .060	.058 .046 .035	.019 .015 .011	
3.0	.163 .114 .075	.140 .099 .065	.096 .068 .046	.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 .090 .048	.128 .078 .041	.088 .055 .029	.051 .032 .017	.016 .010 .006	
6.0	.141 .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	.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	.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:119.97V I:0.1135A P:8.4654W PF:0.8931 Freq:59.98Hz Lamp Flux:736.444x1 lm										
NAME: LED-S9W-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	16.7	18.2	17.0	18.4	18.6
3H	18.1	19.5	18.4	19.7	19.9	18.2	19.6	18.5	19.8	20.1
4H	18.6	19.9	18.9	20.2	20.4	18.8	20.1	19.1	20.3	20.6
6H	18.9	20.1	19.2	20.4	20.7	19.1	20.3	19.4	20.6	20.9
8H	18.9	20.1	19.2	20.4	20.7	19.1	20.3	19.5	20.6	20.9
12H	18.9	20.0	19.2	20.3	20.6	19.1	20.3	19.5	20.6	20.9
4H 2H	17.2	18.5	17.5	18.8	19.0	17.3	18.6	17.6	18.9	19.1
3H	18.9	20.0	19.2	20.3	20.6	19.0	20.1	19.3	20.4	20.7
4H	19.5	20.6	19.9	20.9	21.2	19.6	20.7	20.0	21.0	21.4
6H	19.9	20.8	20.3	21.2	21.5	20.1	21.0	20.5	21.4	21.7
8H	19.9	20.8	20.4	21.2	21.6	20.2	21.0	20.6	21.4	21.8
12H	19.9	20.7	20.4	21.1	21.5	20.2	21.0	20.6	21.4	21.8
8H 4H	19.8	20.6	20.2	21.0	21.4	19.9	20.7	20.3	21.1	21.5
6H	20.3	21.0	20.7	21.4	21.8	20.4	21.1	20.9	21.6	22.0
8H	20.4	21.0	20.8	21.4	21.9	20.6	21.2	21.0	21.6	22.1
12H	20.4	20.9	20.9	21.4	21.9	20.6	21.2	21.1	21.6	22.1
12H 4H	19.8	20.5	20.2	20.9	21.3	19.9	20.7	20.3	21.1	21.5
6H	20.3	20.9	20.8	21.4	21.8	20.5	21.1	20.9	21.5	22.0
8H	20.4	21.0	20.9	21.4	21.9	20.6	21.2	21.1	21.6	22.1
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, 736.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.1)  
 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:119.97V I:0.1135A P:8.4654W PF:0.8931 Freq:59.98Hz Lamp Flux:736.444x1 lm		
NAME: LED-S9W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:3500K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

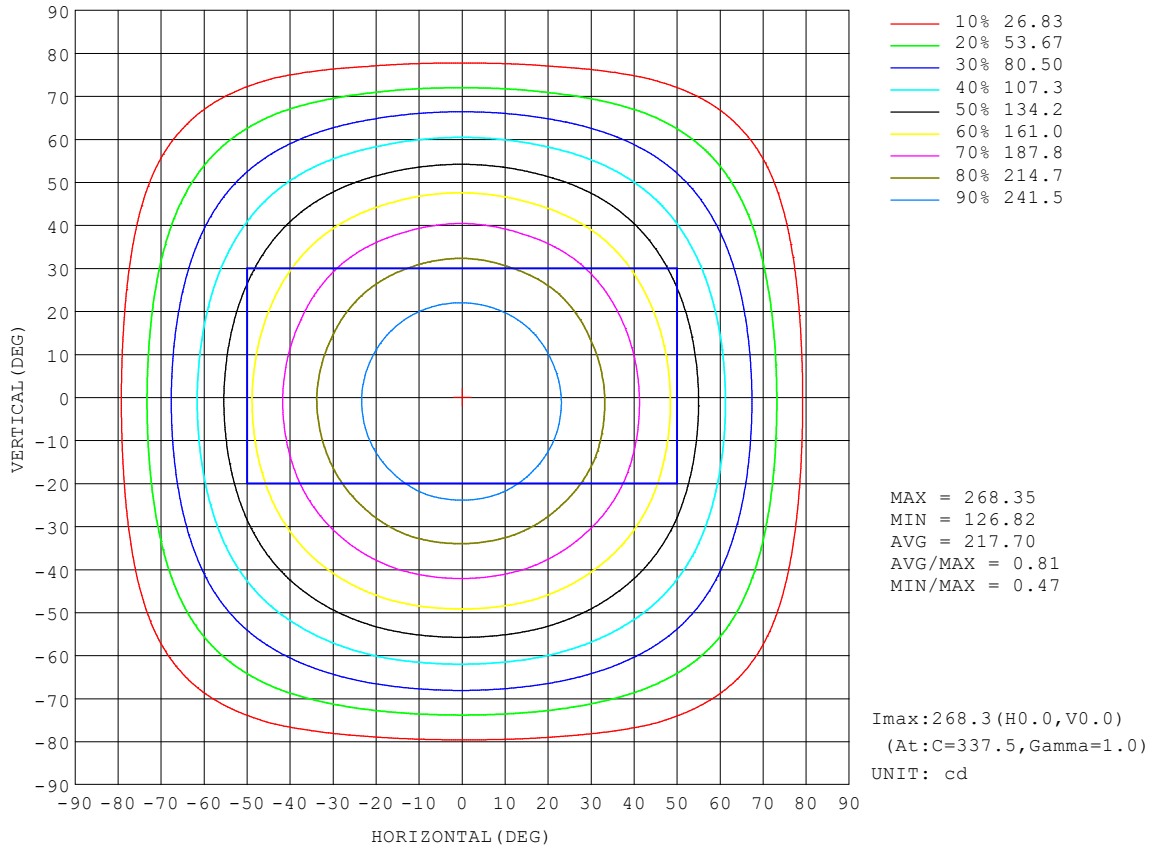
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	57	46	40	56	46	39	33
0.80	68	57	50	67	56	49	65	56	49	42
1.00	77	66	59	76	65	58	73	67	58	51
1.25	84	74	67	82	73	66	80	71	65	58
1.50	89	79	72	87	78	72	84	77	71	63
2.00	96	87	81	94	86	80	90	84	79	71
2.50	100	92	86	98	91	85	94	88	83	75
3.00	103	96	91	101	95	90	97	92	88	79
4.00	107	101	97	104	100	95	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:119.97V I:0.1135A P:8.4654W PF:0.8931 Freq:59.98Hz Lamp Flux:736.444x1 lm		
NAME: LED-S9W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:3500K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



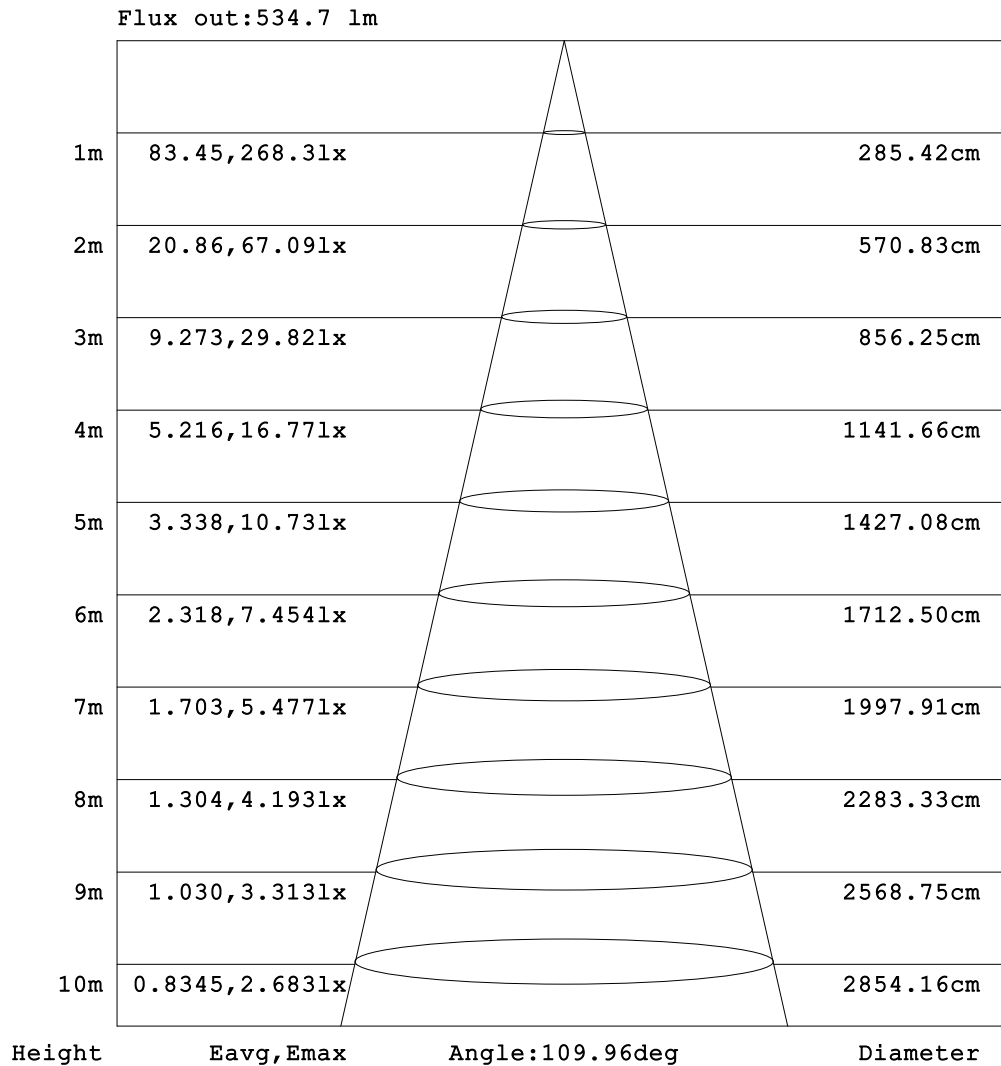
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-12-30

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:119.97V I:0.1135A P:8.4654W PF:0.8931 Freq:59.98Hz Lamp Flux:736.444x1 lm		
NAME: LED-S9W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:3500K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



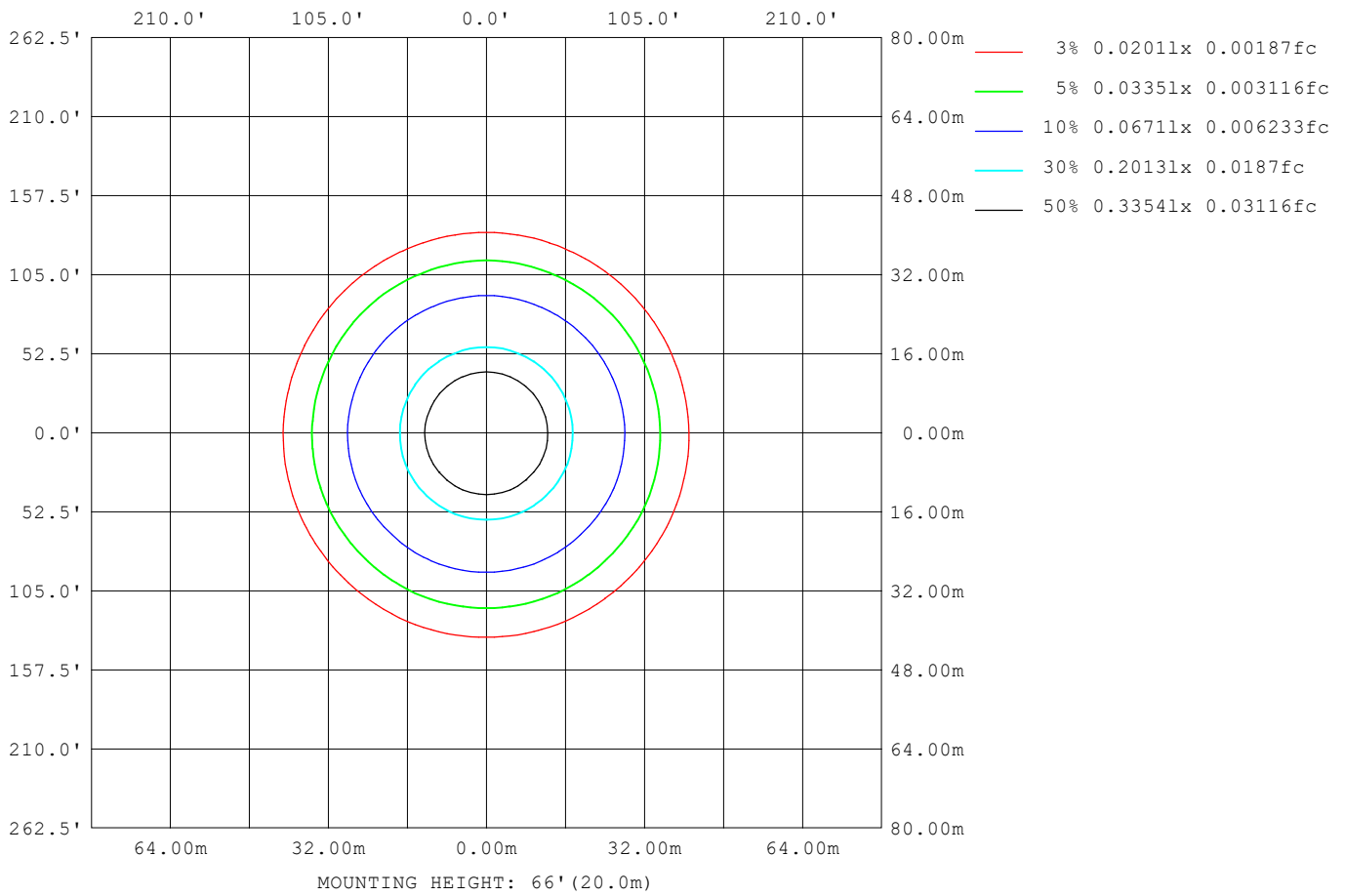
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:119.97V I:0.1135A P:8.4654W PF:0.8931 Freq:59.98Hz Lamp Flux:736.444x1 lm		
NAME: LED-S9W-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:119.97V I:0.1135A P:8.4654W PF:0.8931 Freq:59.98Hz Lamp Flux:736.444x1 lm		
NAME: LED-S9W-5CCTWH-SQ	TYPE:	WEIGHT:
SPEC.:3500K 80	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

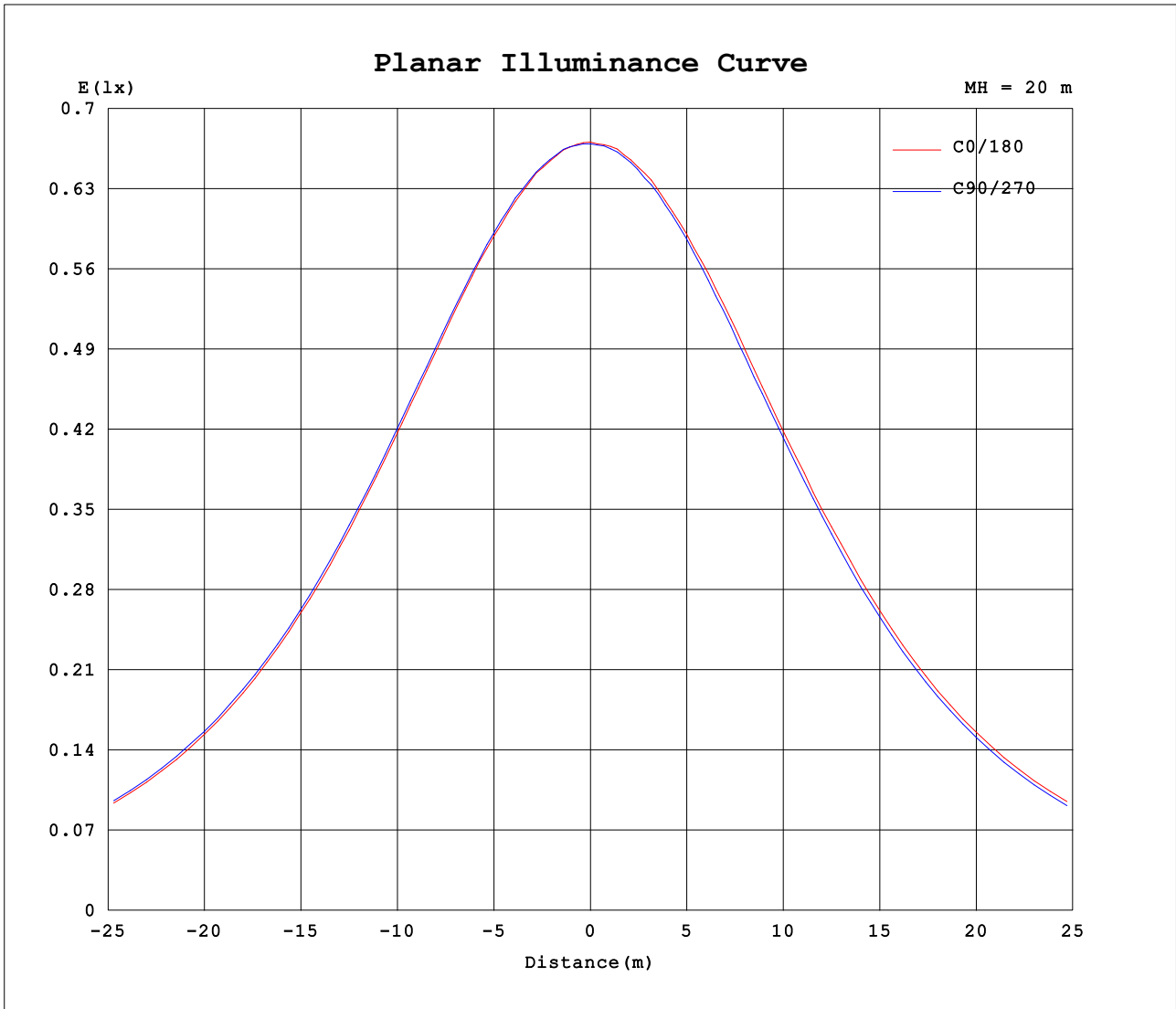
AvgL	cd/m2
L_0~180 (65) av	1949
L_0~180 (75) av	1581
L_0~180 (85) av	515
L_90~270 (65) av	1931
L_90~270 (75) av	1516
L_90~270 (85) av	324
L_45 (65) av	1928
L_45 (75) av	1590
L_45 (85) av	487

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

