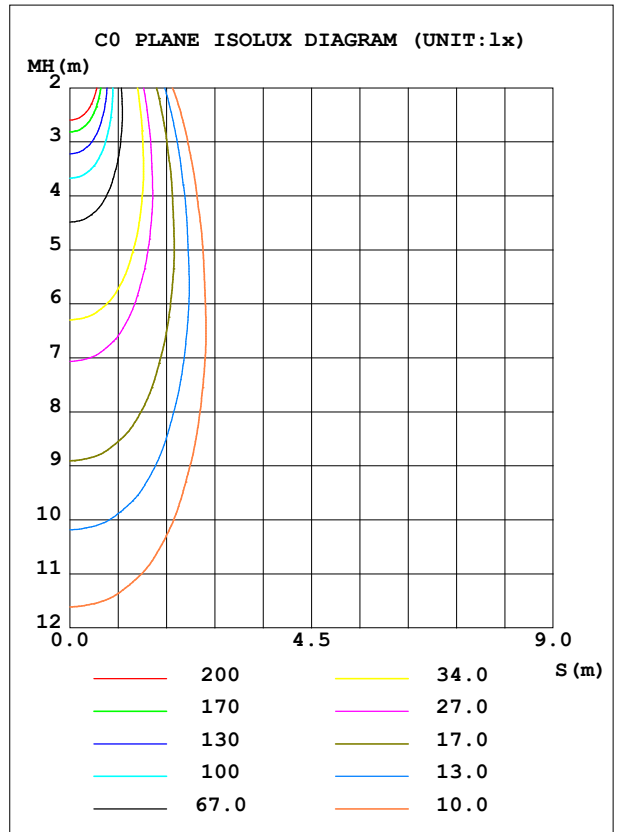
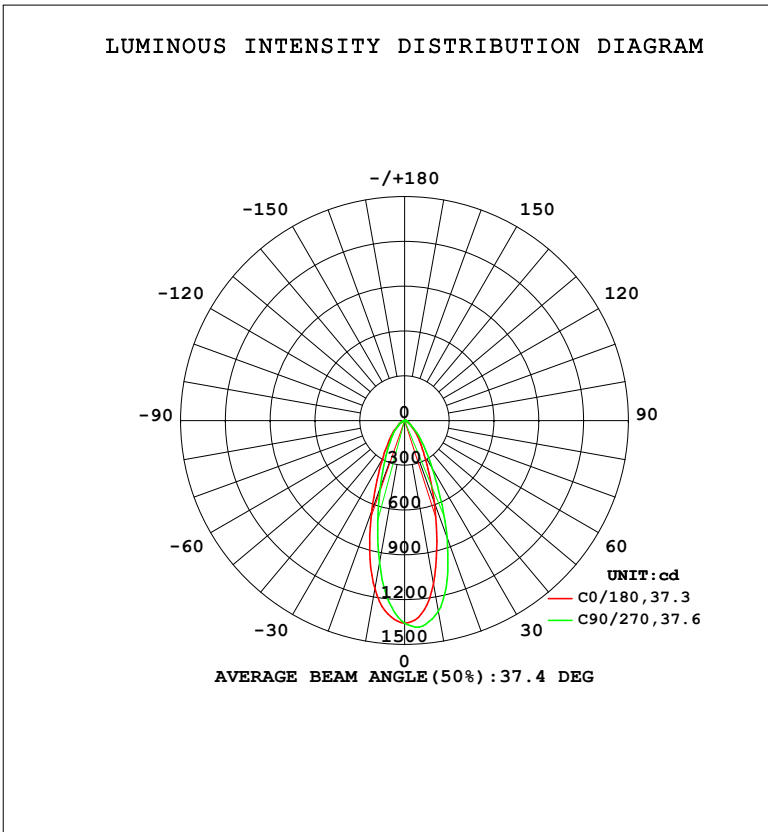


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.82V I:0.0899A P:10.499W PF:0.9744 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:849.947x1 lm		
NAME: LED-2-S11W-5CCT-WH-EY-SQ	TYPE:	WEIGHT:
SPEC.: 4000K 90	DIM.:	SERIAL No.:
MFR.: LTS	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		Imax (cd)	1387	S/MH (C0/180)	0.63
NOMINAL POWER (W)	11	LOR (%)	100.0	S/MH (C90/270)	0.51
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	849.95	η UP, DN (C0-180)	0.0,55.9
NOMINAL FLUX (lm)	849.947	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0,44.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	120	η down (%)	100.0	CIBSE SHR MAX	0.65



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.3 °C
 Operators:
 Test Date: 2024-05-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.080m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

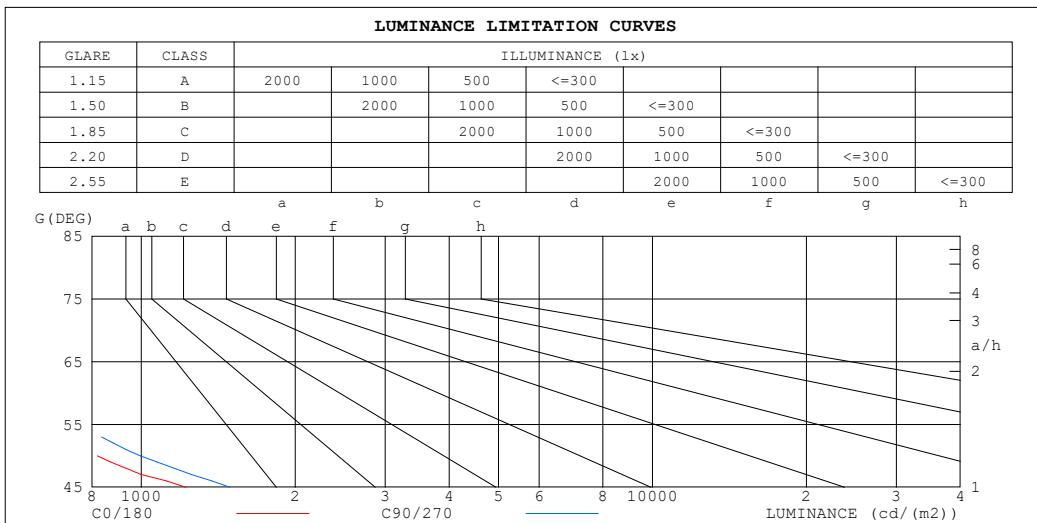
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1112	1252	1298	1250	1147	1024	967.3	1009	0- 10	118.7	118.7	14,14
20	583.6	753.3	833.9	786.6	645.4	527.2	480.0	501.4	10- 20	243.7	362.5	42.6,42.6
30	265.0	347.6	376.6	361.5	300.0	253.6	233.0	238.4	20- 30	202.0	564.5	66.4,66.4
40	136.2	164.2	172.7	167.9	148.1	133.6	126.5	128.9	30- 40	131.1	695.6	81.8,81.8
50	59.00	68.10	71.03	70.23	66.77	62.58	59.22	57.42	40- 50	79.48	775.1	91.2,91.2
60	29.59	31.61	31.96	32.46	33.18	32.80	31.66	30.20	50- 60	41.32	816.4	96.1,96.1
70	12.58	13.59	13.84	14.11	14.71	15.12	14.08	13.00	60- 70	21.92	838.3	98.6,98.6
80	3.695	4.705	5.624	5.223	4.914	5.647	5.783	4.660	70- 80	9.843	848.2	99.8,99.8
90	0.0759	0.0750	0.0975	0.0745	0.0532	0.0476	0.0606	0.0525	80- 90	1.787	849.9	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:24.3 °C
 Operators:
 Test Date:2024-05-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.82V I:0.0899A P:10.499W PF:0.9744 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:849.947x1 lm		
NAME: LED-2-S11W-5CCT-WH-EY-SQ	TYPE:	WEIGHT:
SPEC.: 4000K 90	DIM.:	SERIAL No.:
MFR.: LTS	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	20	239
80	190	292
75	283	315
70	329	364
65	425	482
60	529	576
55	665	750
50	821	995
45	1221	1491

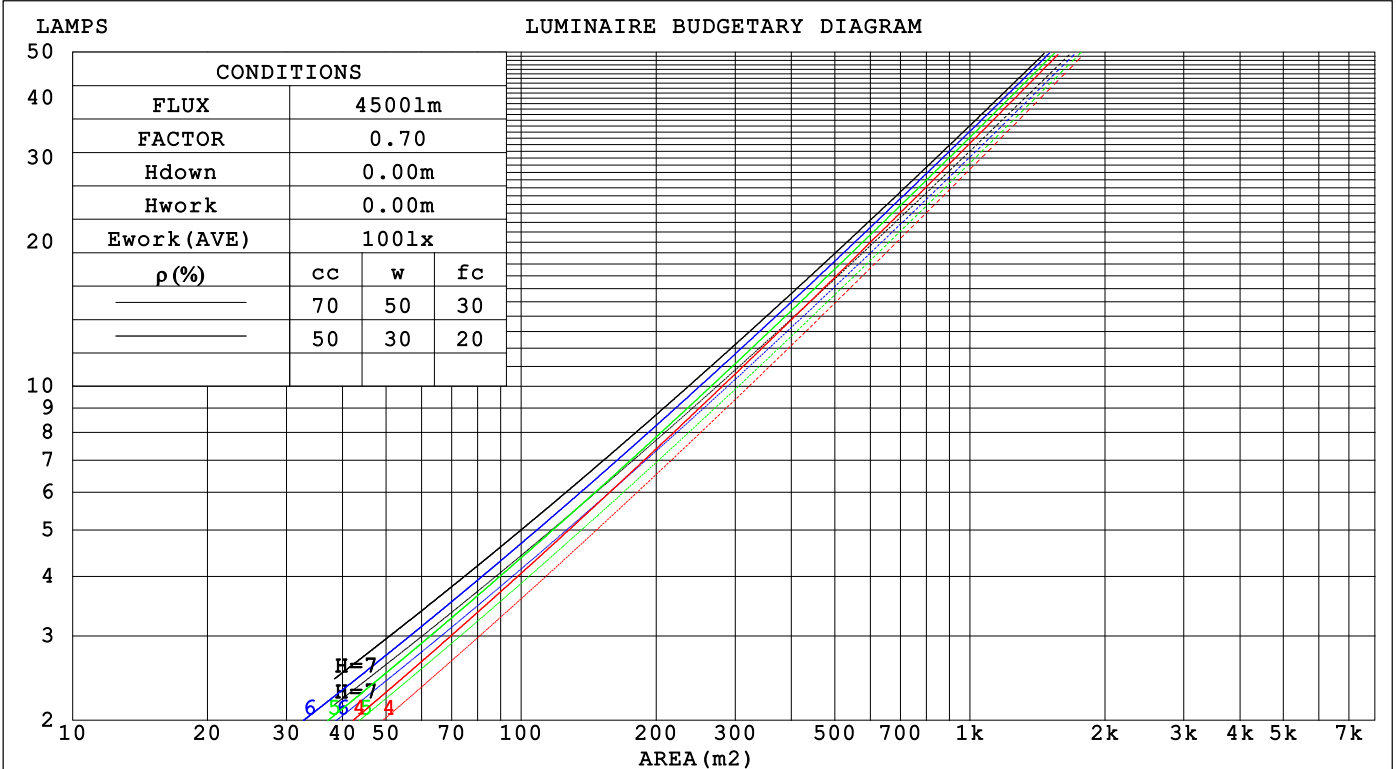
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.3 °C
 Operators:
 Test Date: 2024-05-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.080m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.82V I:0.0899A P:10.499W PF:0.9744 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:849.947x1 lm		
NAME: LED-2-S11W-5CCT-WH-EY-SQ	TYPE:	WEIGHT:
SPEC.: 4000K 90	DIM.:	SERIAL No.:
MFR.: LTS	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{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	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.02	.97	.93	.00	.96	.92	.97	.93	.90	.93	.91	.88	.91	.89	.87	.85
3.0	.94	.89	.85	.93	.88	.84	.90	.86	.82	.88	.84	.81	.85	.82	.80	.78
4.0	.88	.82	.77	.86	.81	.77	.84	.80	.76	.82	.78	.75	.80	.77	.74	.73
5.0	.82	.76	.71	.81	.75	.71	.79	.74	.70	.77	.73	.70	.76	.72	.69	.67
6.0	.77	.71	.66	.76	.70	.66	.75	.69	.65	.73	.68	.65	.72	.68	.65	.63
7.0	.72	.66	.62	.72	.66	.62	.70	.65	.61	.69	.64	.61	.68	.64	.61	.59
8.0	.68	.62	.58	.68	.62	.58	.67	.61	.58	.66	.61	.57	.65	.60	.57	.56
9.0	.65	.59	.55	.64	.58	.55	.63	.58	.54	.62	.58	.54	.61	.57	.54	.53
10.0	.61	.56	.52	.61	.55	.52	.60	.55	.51	.59	.55	.51	.59	.54	.51	.50



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3°C
 Operators:
 Test Date:2024-05-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:119.82V I:0.0899A P:10.499W PF:0.9744 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:849.947x1 lm		
NAME: LED-2-S11W-5CCT-WH-EY-SQ	TYPE:	WEIGHT:
SPEC.: 4000K 90	DIM.:	SERIAL No.:
MFR.: LTS	SUR.:	Shielding Angle:

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.194	.110	.035	.187	.107	.034	.175	.100	.032	.163	.094	.030	.152	.088	.028	
2.0	.185	.102	.031	.180	.099	.030	.169	.094	.029	.159	.089	.028	.150	.085	.027	
3.0	.175	.093	.028	.170	.091	.027	.161	.087	.027	.153	.084	.026	.145	.080	.025	
4.0	.166	.086	.025	.161	.084	.025	.153	.081	.024	.146	.078	.024	.139	.076	.023	
5.0	.156	.080	.023	.153	.078	.023	.146	.076	.022	.139	.073	.022	.133	.071	.021	
6.0	.148	.074	.021	.145	.073	.021	.139	.071	.021	.133	.069	.020	.128	.067	.020	
7.0	.140	.069	.020	.137	.068	.020	.132	.067	.019	.127	.065	.019	.122	.063	.019	
8.0	.133	.065	.018	.131	.064	.018	.126	.063	.018	.121	.062	.018	.117	.060	.018	
9.0	.127	.061	.017	.125	.061	.017	.120	.060	.017	.116	.058	.017	.112	.057	.017	
10.0	.121	.058	.016	.119	.057	.016	.115	.056	.016	.111	.055	.016	.108	.054	.016	

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{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	.172	.157	.144	.147	.135	.124	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.135	.114	.096	.093	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.146	.114	.088	.125	.098	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.136	.099	.071	.117	.086	.061	.080	.060	.043	.047	.035	.026	.015	.011	.008	
5.0	.128	.088	.058	.110	.076	.051	.075	.053	.036	.044	.031	.021	.014	.010	.007	
6.0	.120	.078	.049	.103	.068	.042	.071	.048	.030	.041	.028	.018	.013	.009	.006	
7.0	.113	.071	.041	.097	.061	.036	.067	.043	.025	.039	.025	.015	.013	.008	.005	
8.0	.107	.065	.035	.092	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.102	.059	.031	.088	.052	.027	.061	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.097	.055	.027	.084	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3°C
 Operators:
 Test Date:2024-05-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.82V I:0.0899A P:10.499W PF:0.9744 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:849.947x1 lm		
NAME: LED-2-S11W-5CCT-WH-EY-SQ	TYPE:	WEIGHT:
SPEC.: 4000K 90	DIM.:	SERIAL No.:
MFR.: LTS	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	9.6	10.6	9.8	10.8	10.9	10.5	11.5	10.7	11.7	11.9
3H	9.9	10.8	10.1	11.0	11.2	10.8	11.7	11.0	11.9	12.1
4H	10.0	10.8	10.2	11.1	11.3	10.8	11.7	11.1	11.9	12.2
6H	10.0	10.8	10.3	11.0	11.3	10.9	11.7	11.2	12.0	12.2
8H	9.9	10.7	10.3	11.0	11.3	10.9	11.7	11.2	12.0	12.2
12H	9.9	10.7	10.2	10.9	11.2	10.9	11.7	11.2	11.9	12.2
4H 2H	9.7	10.6	10.0	10.8	11.0	10.5	11.4	10.8	11.6	11.9
3H	10.1	10.9	10.4	11.1	11.4	10.9	11.7	11.2	11.9	12.2
4H	10.3	10.9	10.6	11.2	11.6	11.0	11.7	11.4	12.0	12.3
6H	10.3	10.9	10.7	11.3	11.6	11.2	11.8	11.5	12.1	12.5
8H	10.3	10.9	10.7	11.2	11.6	11.2	11.8	11.6	12.1	12.5
12H	10.3	10.8	10.7	11.2	11.5	11.2	11.7	11.6	12.1	12.5
8H 4H	10.3	10.8	10.7	11.2	11.6	11.0	11.6	11.4	11.9	12.3
6H	10.4	10.9	10.8	11.2	11.7	11.2	11.7	11.6	12.1	12.5
8H	10.4	10.8	10.8	11.2	11.7	11.3	11.7	11.7	12.1	12.6
12H	10.3	10.7	10.8	11.1	11.6	11.3	11.7	11.8	12.1	12.6
12H 4H	10.2	10.8	10.6	11.1	11.5	11.0	11.5	11.4	11.9	12.3
6H	10.4	10.8	10.8	11.2	11.6	11.2	11.6	11.6	12.0	12.5
8H	10.4	10.7	10.8	11.2	11.6	11.3	11.6	11.7	12.1	12.5

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 1.2 / - 1.6	+ 1.2 / - 1.7
1.5H	+ 1.4 / - 1.3	+ 1.7 / - 1.4
2.0H	+ 2.1 / - 1.4	+ 2.5 / - 1.4

CIE Pub.117, 849.9 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.6)
 Area: 0.111111 m2

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3°C
 Operators:
 Test Date:2024-05-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.82V I:0.0899A P:10.499W PF:0.9744 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:849.947x1 lm		
NAME: LED-2-S11W-5CCT-WH-EY-SQ	TYPE:	WEIGHT:
SPEC.: 4000K 90	DIM.:	SERIAL No.:
MFR.: LTS	SUR.:	Shielding Angle:

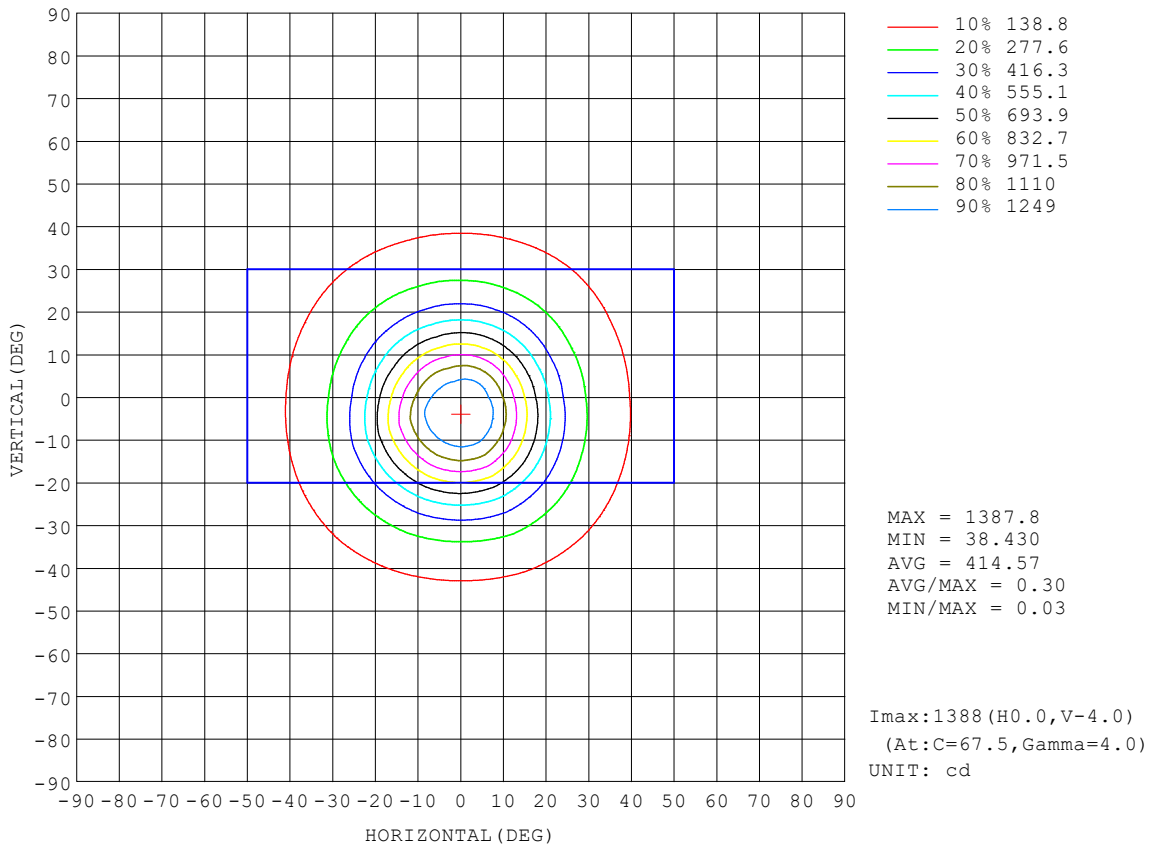
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	80	73	68	80	72	68	79	72	68	63
0.80	88	81	77	88	81	77	86	80	76	72
1.00	94	87	83	93	87	83	91	87	82	77
1.25	99	93	88	98	92	88	96	91	87	82
1.50	102	96	92	101	96	92	98	94	91	86
2.00	106	101	97	104	100	96	101	98	95	89
2.50	108	103	100	106	102	99	103	100	97	91
3.00	110	106	103	108	104	101	105	102	99	92
4.00	112	109	106	110	107	105	106	104	102	95
5.00	114	111	109	112	109	107	107	106	104	96
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:24.3°C
 Operators:
 Test Date:2024-05-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:119.82V I:0.0899A P:10.499W PF:0.9744 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:849.947x1 lm		
NAME: LED-2-S11W-5CCT-WH-EY-SQ	TYPE:	WEIGHT:
SPEC.: 4000K 90	DIM.:	SERIAL No.:
MFR.: LTS	SUR.:	Shielding Angle:

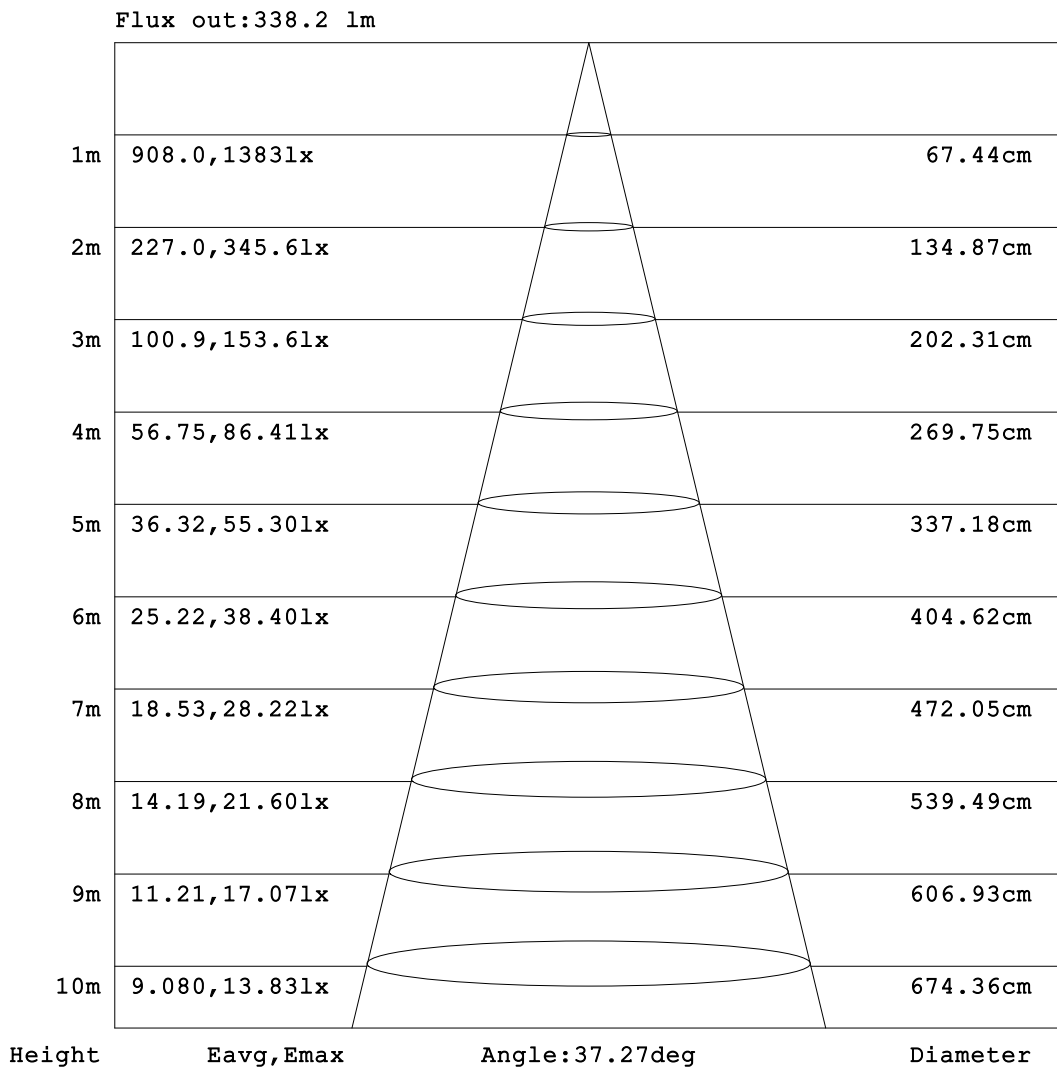


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3°C
 Operators:
 Test Date:2024-05-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

AAI Figure

Test:U:119.82V I:0.0899A P:10.499W PF:0.9744 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:849.947x1 lm		
NAME: LED-2-S11W-5CCT-WH-EY-SQ	TYPE:	WEIGHT:
SPEC.: 4000K 90	DIM.:	SERIAL No.:
MFR.: LTS	SUR.:	Shielding Angle:



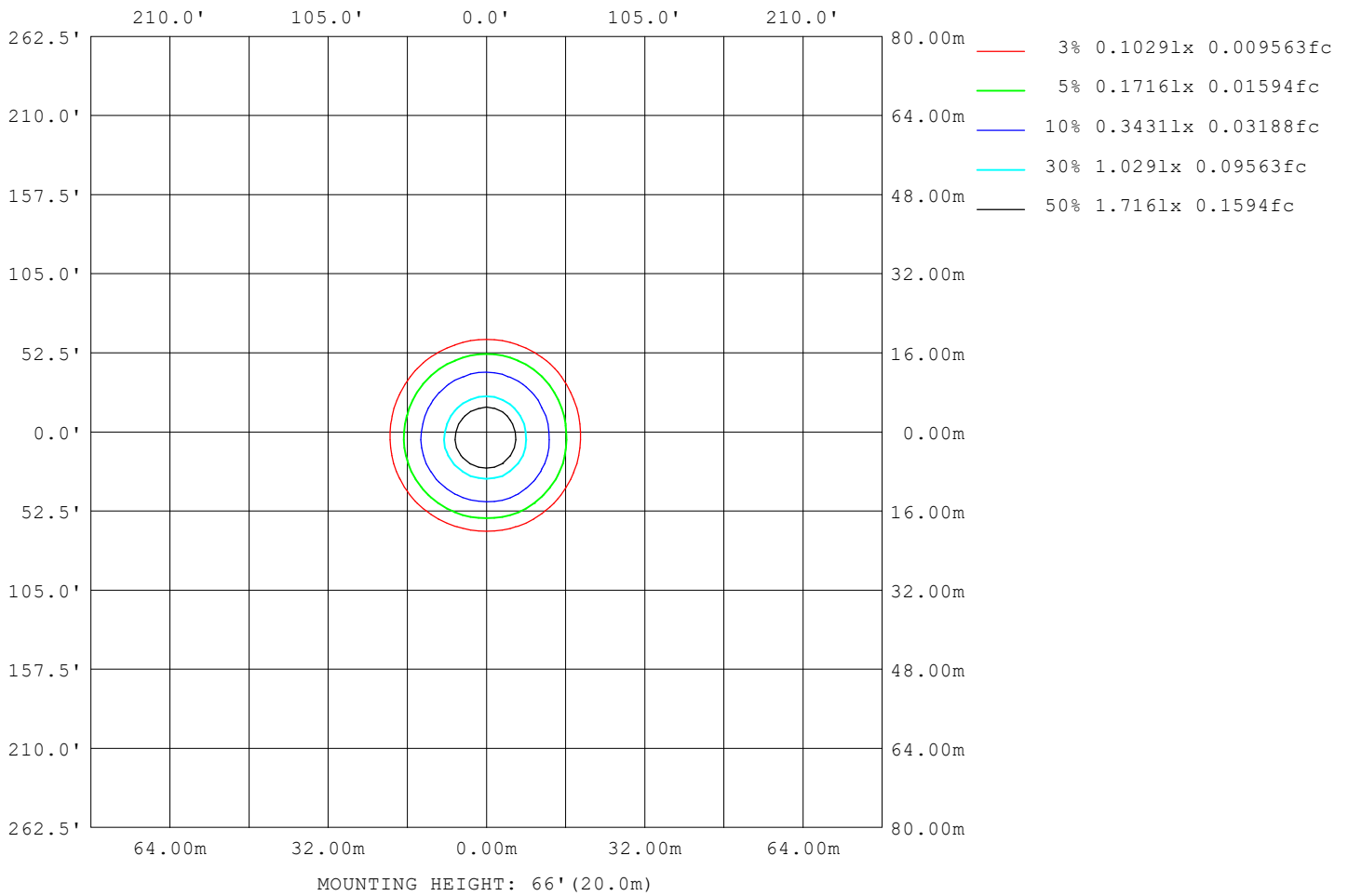
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.3 °C
 Operators:
 Test Date: 2024-05-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.080m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:119.82V I:0.0899A P:10.499W PF:0.9744 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:849.947x1 lm		
NAME: LED-2-S11W-5CCT-WH-EY-SQ	TYPE:	WEIGHT:
SPEC.: 4000K 90	DIM.:	SERIAL No.:
MFR.: LTS	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.3°C
 Operators:
 Test Date: 2024-05-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.080m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:119.82V I:0.0899A P:10.499W PF:0.9744 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:849.947x1 lm		
NAME: LED-2-S11W-5CCT-WH-EY-SQ	TYPE:	WEIGHT:
SPEC.: 4000K 90	DIM.:	SERIAL No.:
MFR.: LTS	SUR.:	Shielding Angle:

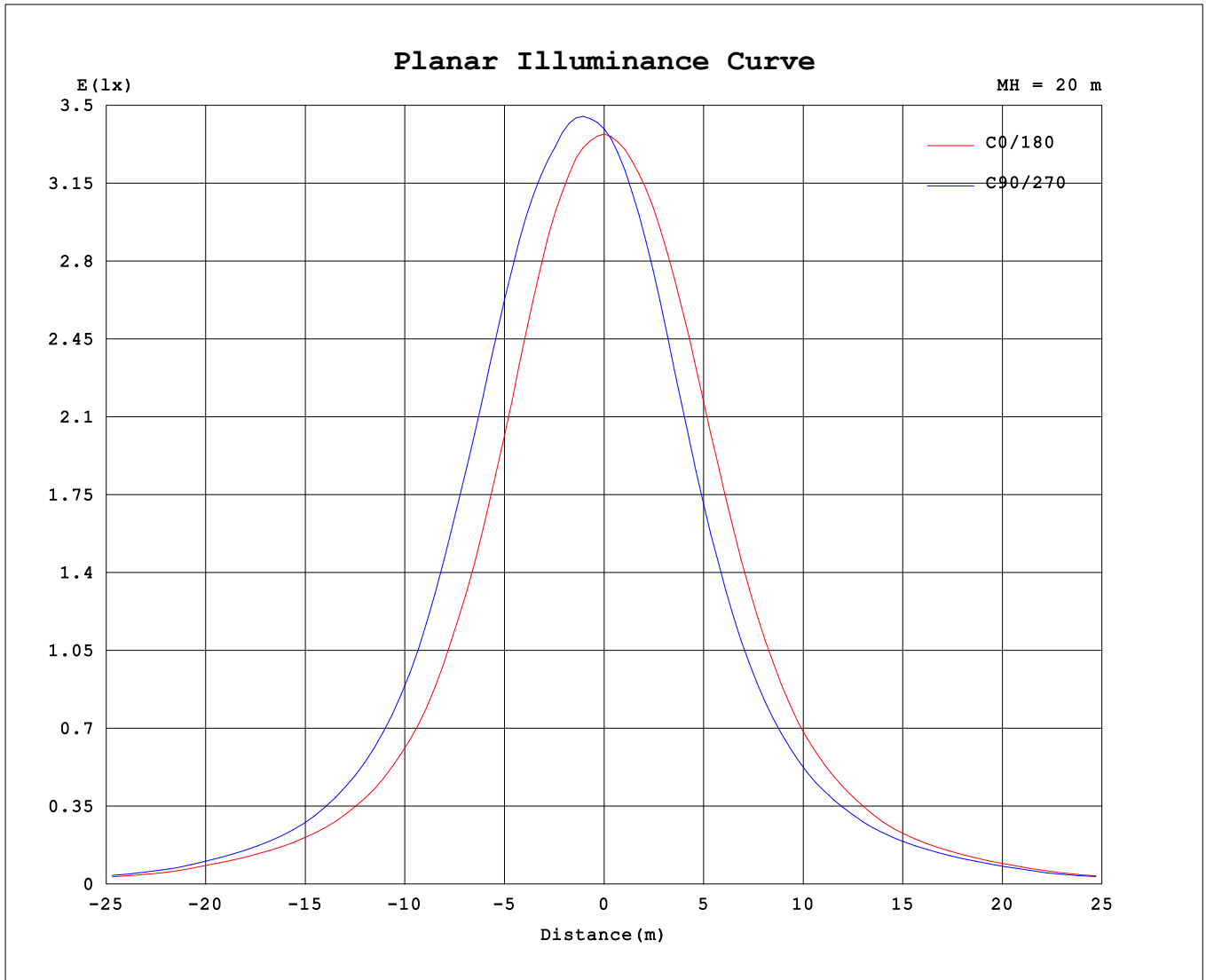
AvgL	cd/m2
L_0~180 (65) av	460
L_0~180 (75) av	315
L_0~180 (85) av	45
L_90~270 (65) av	472
L_90~270 (75) av	327
L_90~270 (85) av	228
L_45 (65) av	472
L_45 (75) av	330
L_45 (85) av	86

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.3℃
 Operators:
 Test Date:2024-05-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.3 °C
 Operators:
 Test Date: 2024-05-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.080m [K=1.0000]
 Remarks:

