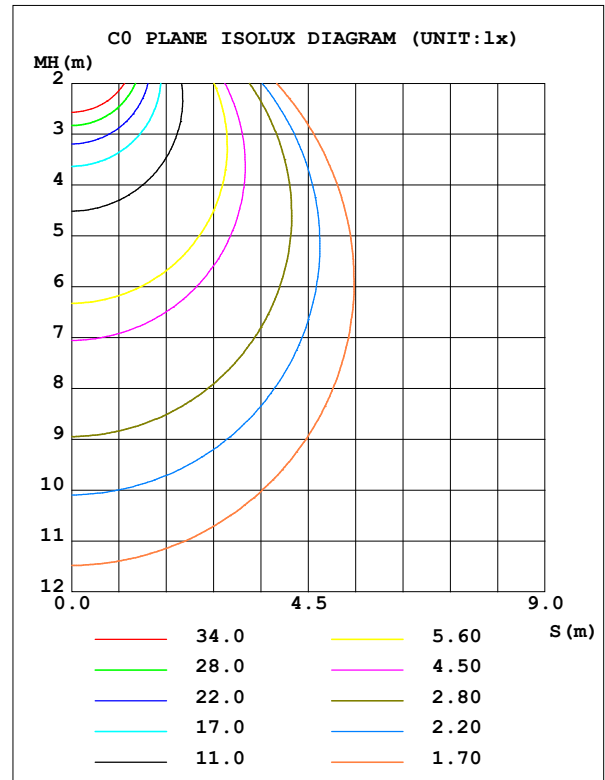
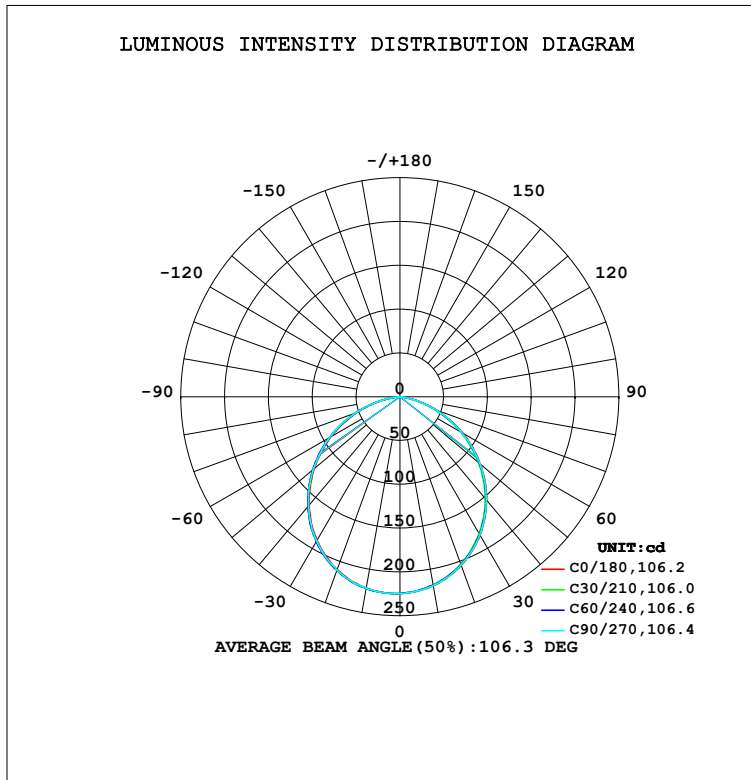


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.00V I:0.0440A P:9.7000W PF:0.9690 Freq:50.00Hz Lamp Flux:584.607x1 lm		
NAME: SLED715F-W1S1-P-TB-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 60.27 lm/W
MODEL		I _{max} (cd)	224.9	S/MH (C0/180)		1.25
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		1.26
RATED VOLTAGE (V)		TOTAL FLUX (lm)	584.61	η UP,DN (C0-180)		0.0,48.4
NOMINAL FLUX (lm)	584.607	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,51.6
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		1.25
TEST VOLTAGE (V)		η down (%)	100.0	CIBSE SHR MAX		1.35



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:05 June 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-i300_v1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

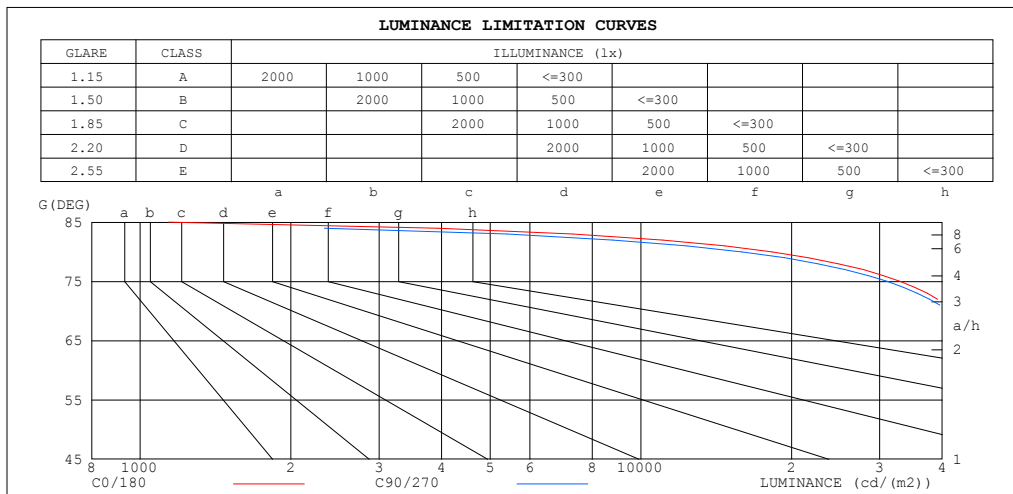
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	218.9	218.3	218.8	220.3	221.8	222.2	222.0	220.5	0- 10	21.23	21.23	3.63,3.63
20	204.8	203.4	204.2	207.0	209.8	210.9	210.6	207.6	10- 20	60.62	81.86	14,14
30	182.6	181.2	182.2	185.8	189.2	190.9	190.4	186.4	20- 30	91.02	172.9	29.6,29.6
40	154.1	152.2	153.3	157.3	161.6	163.3	162.7	158.4	30- 40	108.0	280.9	48,48
50	119.9	118.0	119.2	123.3	127.8	129.9	129.4	124.5	40- 50	109.0	389.9	66.7,66.7
60	82.46	80.23	81.20	85.77	90.21	92.41	92.59	87.50	50- 60	94.23	484.1	82.8,82.8
70	44.10	41.81	42.67	46.90	51.05	53.69	53.46	48.65	60- 70	66.44	550.5	94.2,94.2
80	9.613	7.986	8.344	11.35	14.24	16.24	16.06	12.44	70- 80	30.83	581.4	99.4,99.4
90	0.0015	0.0004	0.0007	0.0011	0.0036	0.0029	0.0044	0.0018	80- 90	3.227	584.6	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: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:05 June 2020

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-i300_v1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.00V I:0.0440A P:9.7000W PF:0.9690 Freq:50.00Hz Lamp Flux:584.607x1 lm		
NAME: SLED715F-W1S1-P-TB-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1141	616
80	18306	15916
75	32956	31066
70	42642	41320
65	49390	48471
60	54535	53792
55	58584	58006
50	61671	61399
45	64369	64107

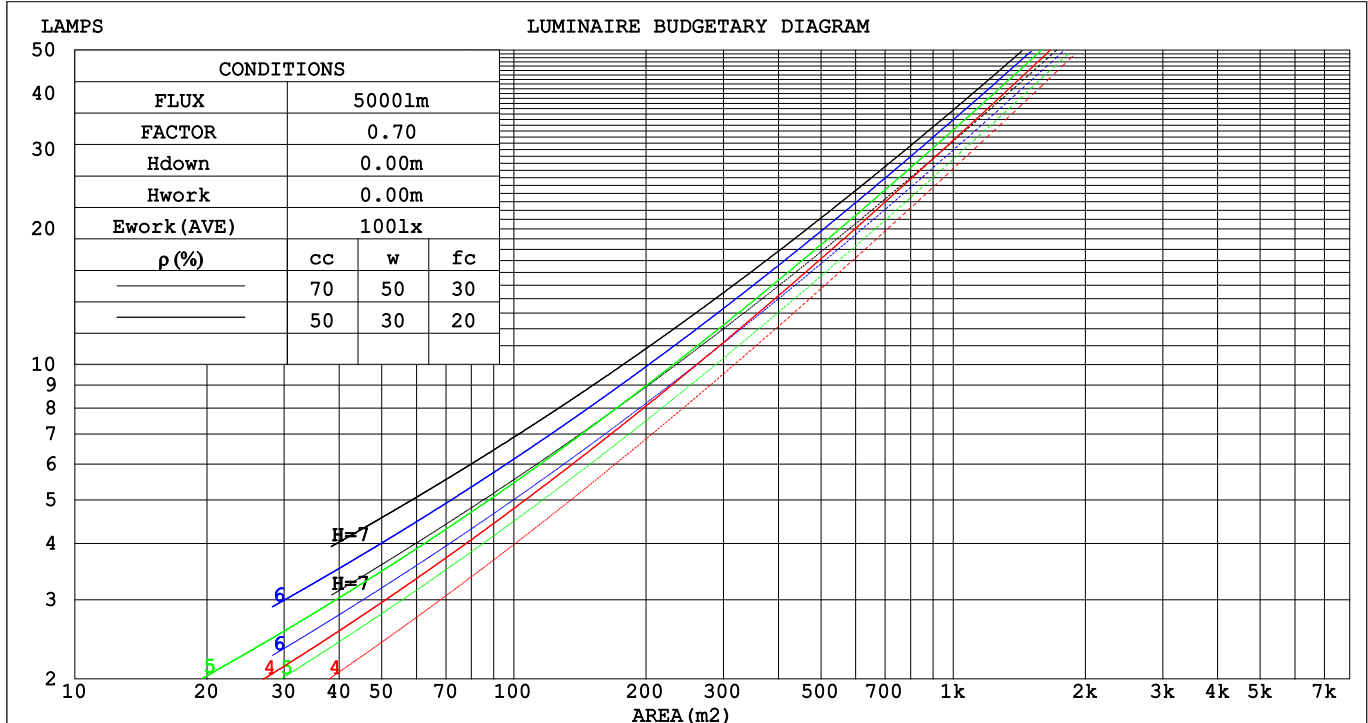
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 05 June 2020

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.401
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.00V I:0.0440A P:9.7000W PF:0.9690 Freq:50.00Hz Lamp Flux:584.607x1 lm		
NAME: SLED715F-W1S1-P-TB-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0														
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
pfc	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	1.01	.98	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.88	.86														
2.0	.92	.86	.80	.90	.84	.79	.87	.82	.78	.84	.80	.76	.81	.77	.74	.72														
3.0	.81	.74	.67	.80	.73	.67	.77	.71	.66	.74	.69	.64	.72	.67	.63	.61														
4.0	.72	.64	.57	.71	.63	.57	.69	.62	.56	.66	.60	.55	.64	.59	.55	.53														
5.0	.65	.56	.50	.64	.55	.49	.62	.54	.49	.60	.53	.48	.58	.52	.48	.46														
6.0	.58	.50	.43	.57	.49	.43	.56	.48	.43	.54	.47	.42	.52	.47	.42	.40														
7.0	.53	.44	.38	.52	.44	.38	.51	.43	.38	.49	.43	.38	.48	.42	.37	.35														
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.39	.34	.44	.38	.34	.32														
9.0	.44	.36	.31	.44	.36	.31	.43	.36	.31	.42	.35	.30	.41	.35	.30	.29														
10.0	.41	.33	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.26														



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:05 June 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.00V I:0.0440A P:9.7000W PF:0.9690 Freq:50.00Hz Lamp Flux:584.607x1 lm																	
NAME: SLED715F-W1S1-P-TB-3000K									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.: Switch Lighting									SUR.:						Shielding Angle:		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.284	.161	.051	.277	.158	.050	.264	.151	.048	.252	.145	.047	.240	.139	.045	
2.0	.274	.150	.046	.268	.147	.045	.256	.142	.044	.246	.138	.043	.236	.133	.042	
3.0	.257	.137	.041	.252	.135	.041	.241	.131	.040	.232	.127	.039	.223	.124	.038	
4.0	.239	.124	.037	.235	.123	.036	.225	.120	.036	.217	.117	.035	.209	.114	.035	
5.0	.223	.113	.033	.218	.112	.033	.210	.110	.032	.203	.107	.032	.196	.105	.031	
6.0	.207	.104	.030	.204	.103	.030	.197	.101	.029	.190	.099	.029	.184	.097	.029	
7.0	.194	.096	.027	.190	.095	.027	.184	.093	.027	.178	.091	.027	.172	.090	.026	
8.0	.182	.089	.025	.179	.088	.025	.173	.086	.025	.167	.085	.024	.162	.083	.024	
9.0	.171	.083	.023	.168	.082	.023	.163	.080	.023	.158	.079	.023	.153	.078	.023	
10.0	.161	.077	.021	.158	.076	.021	.154	.075	.021	.149	.074	.021	.145	.073	.021	

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	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	.104	.092	.081	.060	.053	.047	.019	.017	.015		
2.0	.170	.132	.100	.145	.114	.087	.100	.079	.060	.057	.046	.035	.018	.015	.012		
3.0	.162	.114	.076	.139	.099	.066	.095	.068	.046	.055	.040	.027	.018	.013	.009		
4.0	.154	.101	.060	.133	.087	.052	.091	.061	.037	.053	.036	.022	.017	.012	.007		
5.0	.147	.090	.048	.126	.078	.042	.087	.055	.030	.050	.032	.018	.016	.010	.006		
6.0	.140	.082	.040	.120	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005		
7.0	.134	.075	.034	.115	.065	.030	.079	.046	.021	.046	.027	.012	.015	.009	.004		
8.0	.127	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004		
9.0	.121	.064	.026	.105	.056	.022	.072	.039	.016	.042	.023	.009	.014	.008	.003		
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:05 June 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.00V I:0.0440A P:9.7000W PF:0.9690 Freq:50.00Hz Lamp Flux:584.607x1 lm											
NAME: SLED715F-W1S1-P-TB-3000K					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: Switch Lighting					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	2H	28.6	30.0	28.8	30.2	30.5	28.6	30.1	28.9	30.3	30.5
	3H	29.7	31.1	30.0	31.3	31.5	29.7	31.1	30.0	31.3	31.5
	4H	30.0	31.3	30.3	31.6	31.8	30.0	31.3	30.3	31.5	31.8
	6H	30.1	31.3	30.4	31.6	31.9	30.1	31.3	30.4	31.6	31.8
	8H	30.1	31.3	30.4	31.5	31.8	30.0	31.2	30.4	31.5	31.8
	12H	30.0	31.2	30.4	31.4	31.8	30.0	31.1	30.3	31.4	31.7
4H	2H	29.1	30.3	29.4	30.6	30.8	29.1	30.4	29.4	30.6	30.9
	3H	30.3	31.4	30.7	31.7	32.0	30.3	31.5	30.7	31.8	32.1
	4H	30.7	31.7	31.1	32.0	32.4	30.7	31.7	31.1	32.1	32.4
	6H	30.8	31.7	31.2	32.1	32.5	30.8	31.7	31.2	32.1	32.4
	8H	30.8	31.7	31.2	32.0	32.4	30.8	31.6	31.2	32.0	32.4
	12H	30.8	31.5	31.2	31.9	32.3	30.8	31.5	31.2	31.9	32.3
8H	4H	30.8	31.6	31.2	32.0	32.4	30.8	31.6	31.2	32.0	32.4
	6H	31.0	31.7	31.4	32.1	32.5	31.0	31.6	31.4	32.0	32.5
	8H	31.0	31.6	31.4	32.0	32.4	30.9	31.6	31.4	32.0	32.4
	12H	30.9	31.4	31.4	31.9	32.4	30.9	31.4	31.4	31.9	32.3
12H	4H	30.8	31.5	31.2	31.9	32.3	30.8	31.5	31.2	31.9	32.3
	6H	30.9	31.5	31.4	32.0	32.4	30.9	31.5	31.4	32.0	32.4
	8H	30.9	31.5	31.4	31.9	32.4	30.9	31.4	31.4	31.9	32.4
Variations with the observer position at spacings:											
S = 1.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4					
2.0H	+ 0.5 / - 0.4					+ 0.4 / - 0.4					

CIE Pub.117, 584.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.9)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:05 June 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.00V I:0.0440A P:9.7000W PF:0.9690 Freq:50.00Hz Lamp Flux:584.607x1 lm		
NAME: SLED715F-W1S1-P-TB-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

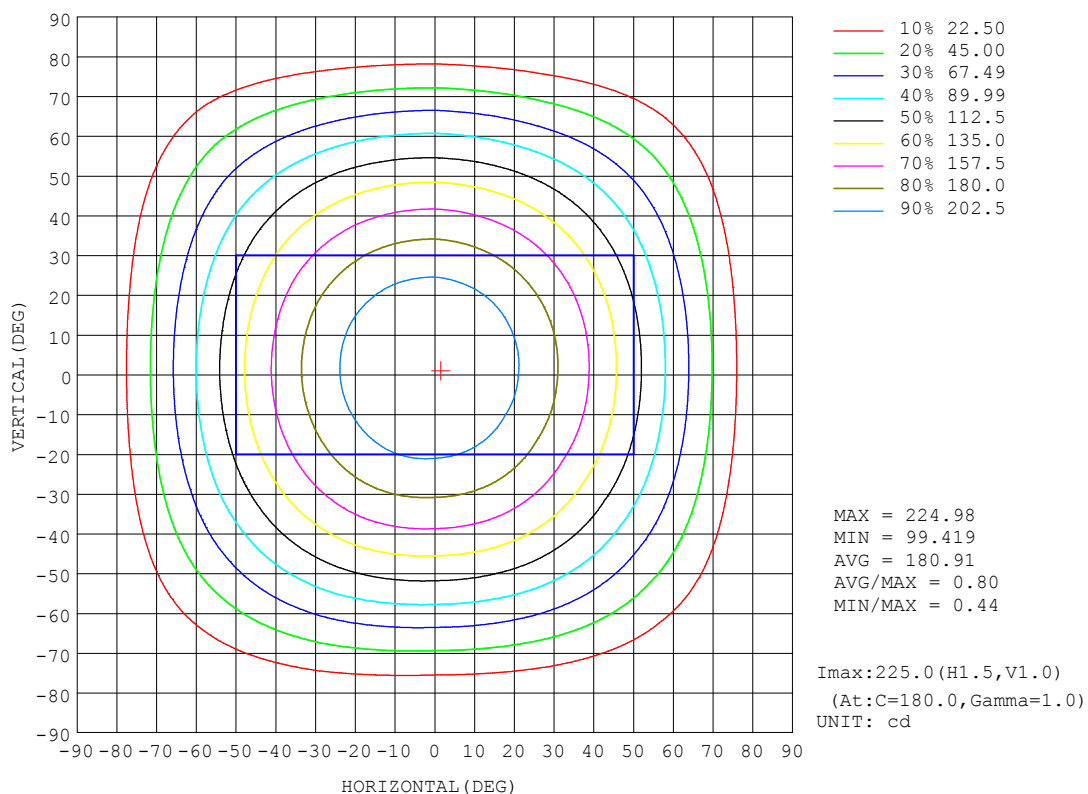
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	48	41	59	48	41	57	47	41	35
0.80	70	58	51	69	58	51	67	57	51	44
1.00	78	67	60	77	67	60	75	68	60	53
1.25	85	75	68	84	74	68	81	73	67	60
1.50	90	81	74	88	80	74	85	78	73	65
2.00	97	89	83	95	88	82	92	85	80	73
2.50	100	93	88	98	92	87	95	89	85	77
3.00	104	97	92	102	96	91	98	93	89	81
4.00	107	102	98	105	100	97	101	97	94	85
5.00	110	105	102	107	103	100	103	100	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:05 June 2020

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.00V I:0.0440A P:9.7000W PF:0.9690 Freq:50.00Hz Lamp Flux:584.607x1 lm		
NAME: SLED715F-W1S1-P-TB-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

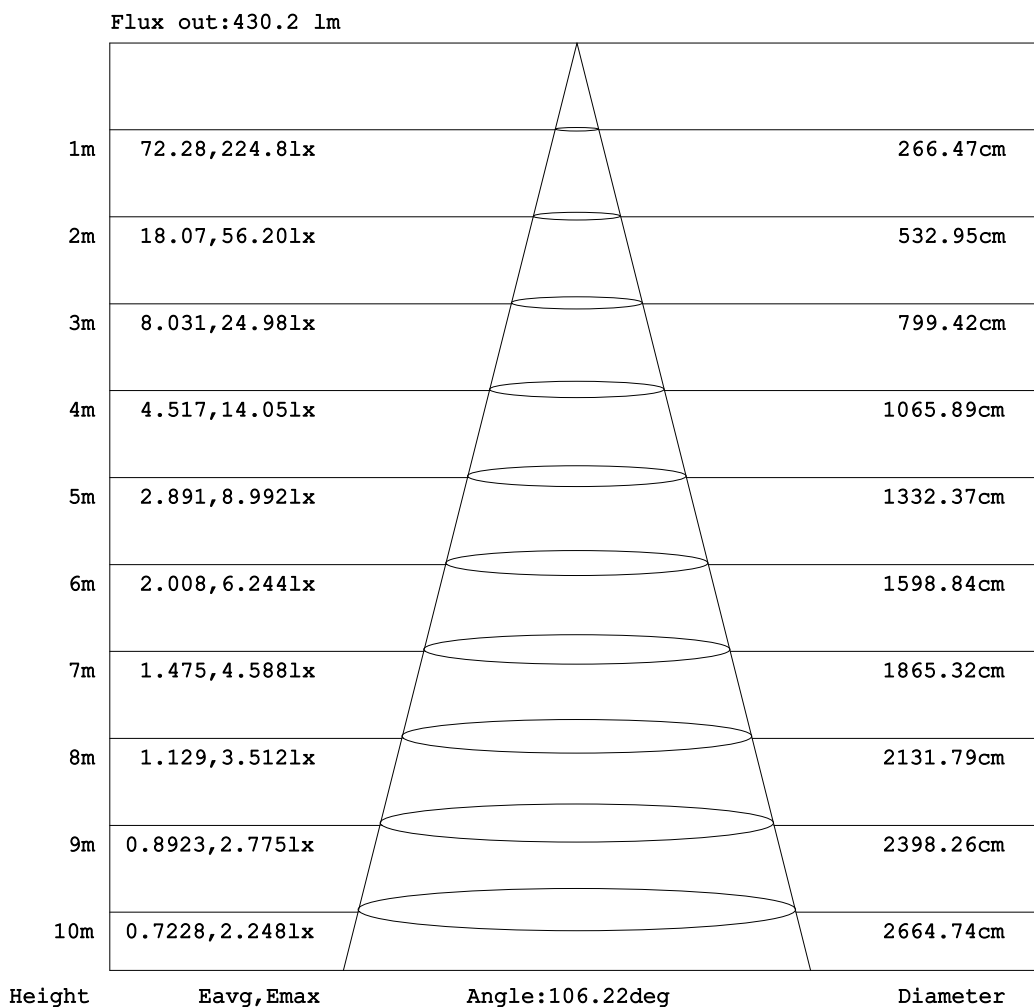


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
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Test Date:05 June 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-i300_v1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.00V I:0.0440A P:9.7000W PF:0.9690 Freq:50.00Hz Lamp Flux:584.607x1 lm		
NAME: SLED715F-W1S1-P-TB-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



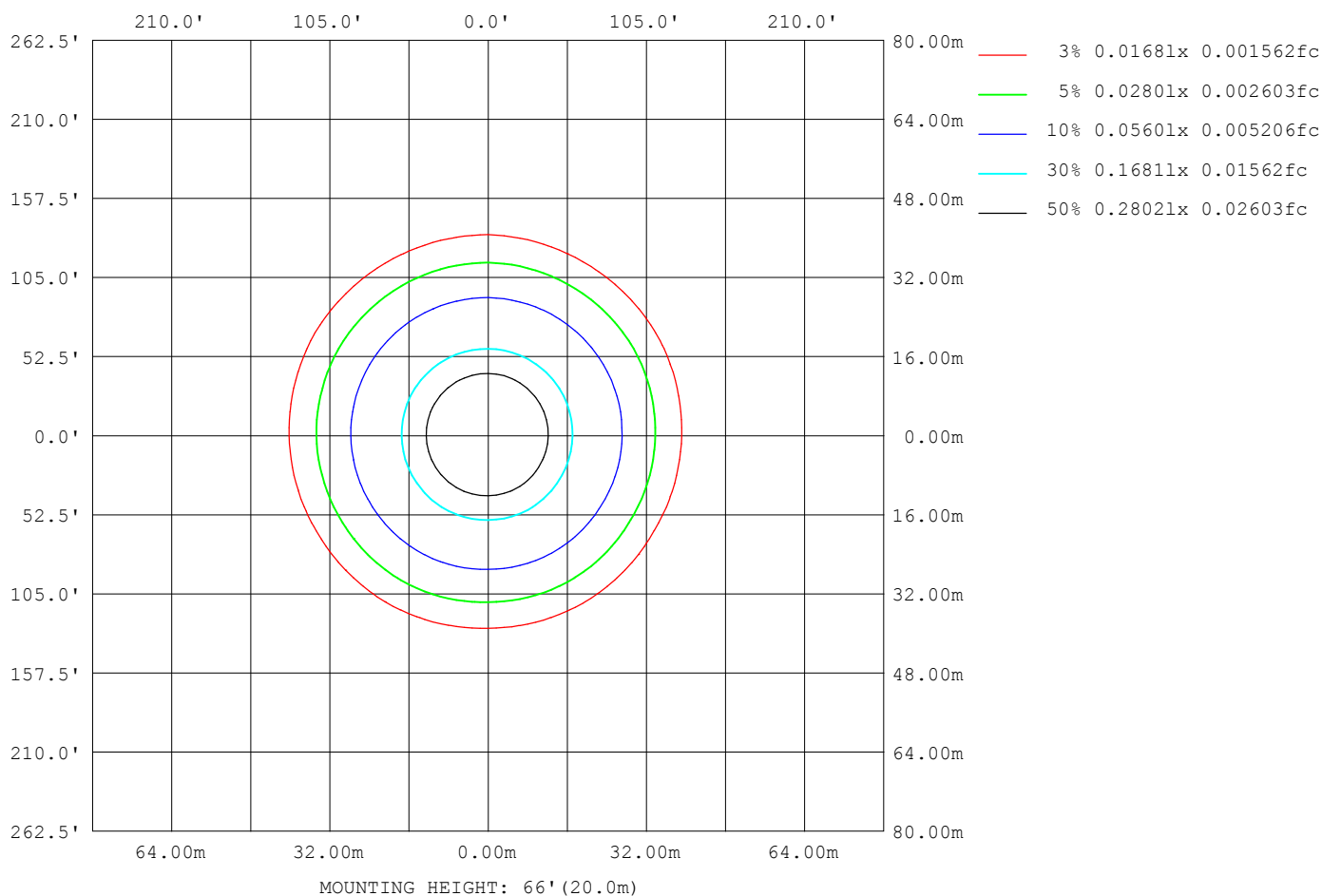
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:05 June 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.00V I:0.0440A P:9.7000W PF:0.9690 Freq:50.00Hz Lamp Flux:584.607x1 lm		
NAME: SLED715F-W1S1-P-TB-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:05 June 2020

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:3.160m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:230.00V I:0.0440A P:9.7000W PF:0.9690 Freq:50.00Hz Lamp Flux:584.607x1 lm		
NAME: SLED715F-W1S1-P-TB-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

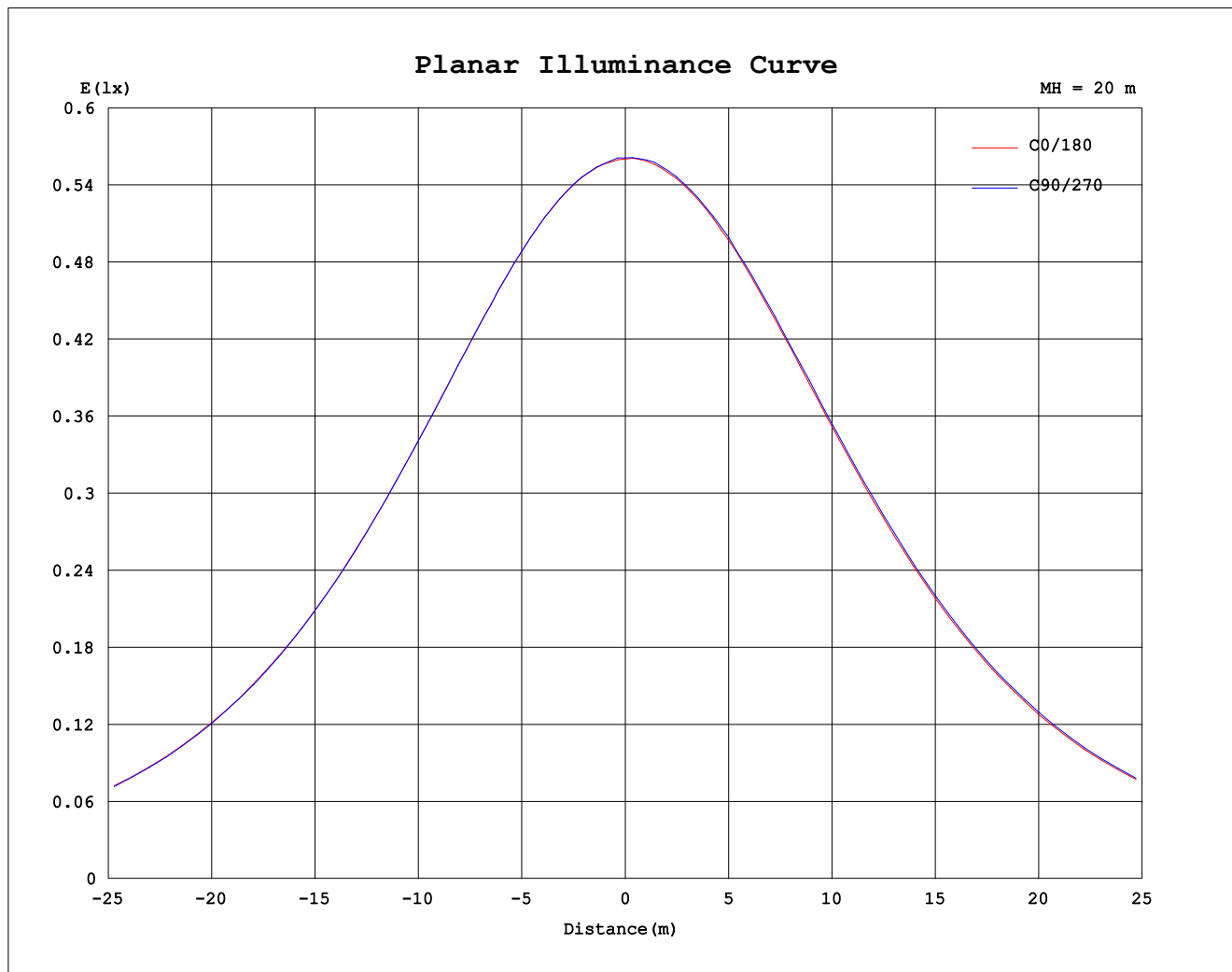
AvgL	cd/m2
L_0~180 (65) av	52457
L_0~180 (75) av	36981
L_0~180 (85) av	3403
L_90~270 (65) av	52930
L_90~270 (75) av	37330
L_90~270 (85) av	4664
L_45 (65) av	52688
L_45 (75) av	37091
L_45 (85) av	3853

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:05 June 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 05 June 2020

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.401
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.401
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks:

```