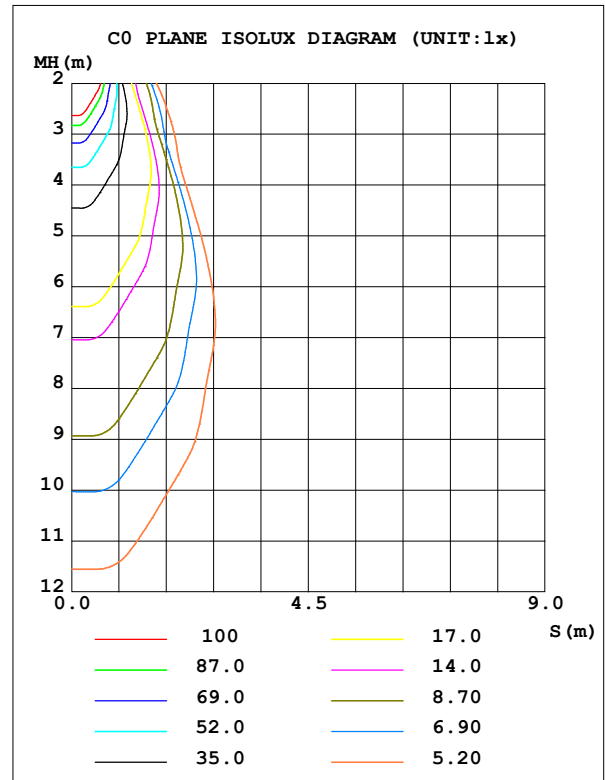
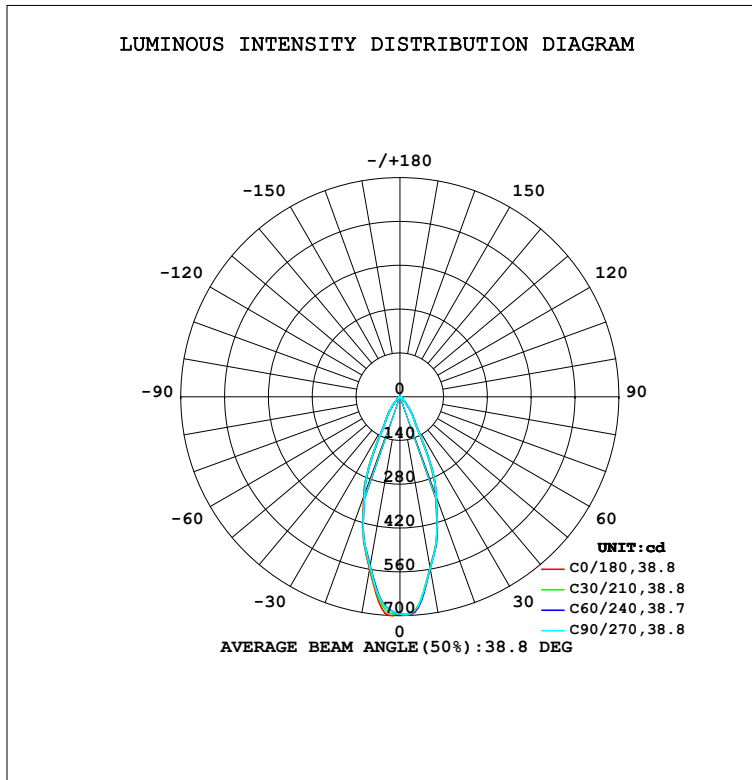


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.90V I:0.0220A P:4.5000W PF:0.9180 Freq:50.00Hz Lamp Flux:344.454x1 lm		
NAME: SLDL280F-4030P-BGDD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 76.55 lm/W
MODEL		I _{max} (cd)	701.1	S/MH (C0/180)		0.63
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.62
RATED VOLTAGE (V)	230V	TOTAL FLUX (lm)	344.45	η UP,DN (C0-180)		0.0,50.1
NOMINAL FLUX (lm)	344.454	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,49.9
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.50
TEST VOLTAGE (V)		η down (%)	100.0	CIBSE SHR MAX		0.65



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:07 October 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:

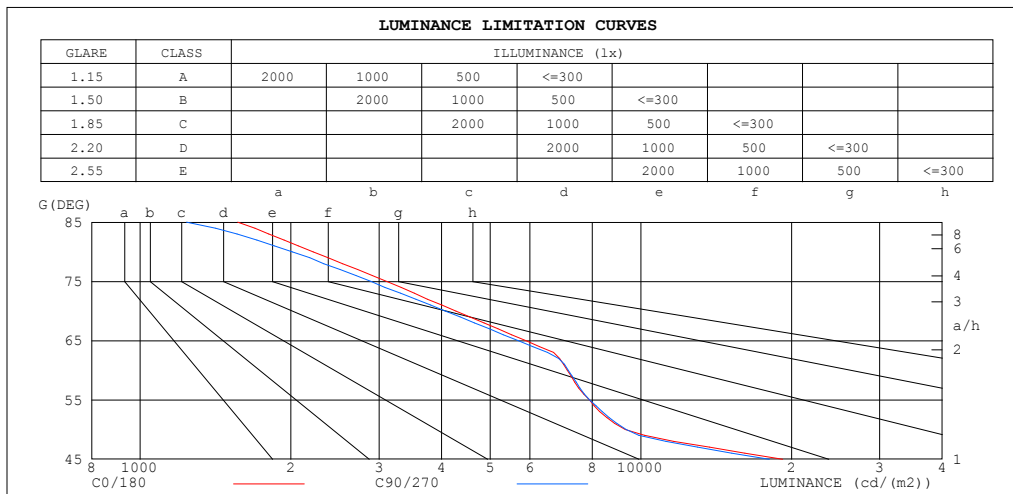
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	557.5	556.3	557.8	557.4	560.2	552.4	552.1	559.4	0- 10	59.87	59.87	17.4,17.4
20	337.6	339.0	340.3	339.6	340.2	334.2	332.8	335.7	10- 20	124.3	184.1	53.5,53.5
30	100.7	100.9	99.92	97.99	97.59	97.46	97.79	99.84	20- 30	95.88	280.0	81.3,81.3
40	38.14	37.70	36.43	35.79	36.07	36.90	37.44	38.33	30- 40	40.78	320.8	93.1,93.1
50	7.527	7.448	7.541	7.508	7.710	7.573	7.667	7.733	40- 50	14.11	334.9	97.2,97.2
60	4.485	4.432	4.500	4.470	4.558	4.506	4.565	4.619	50- 60	5.197	340.1	98.7,98.7
70	1.838	1.765	1.748	1.761	1.808	1.791	1.819	1.870	60- 70	3.102	343.2	99.6,99.6
80	0.4840	0.4584	0.4392	0.4522	0.4569	0.4517	0.4718	0.4767	70- 80	1.081	344.3	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	0.1896	344.5	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:07 October 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:229.90V I:0.0220A P:4.5000W PF:0.9180 Freq:50.00Hz Lamp Flux:344.454x1 lm		
NAME: SLDL280F-4030P-BGDD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1566	1238
80	2216	2015
75	3107	2888
70	4274	4070
65	5887	5688
60	7132	7168
55	7892	7901
50	9311	9344
45	19209	18065

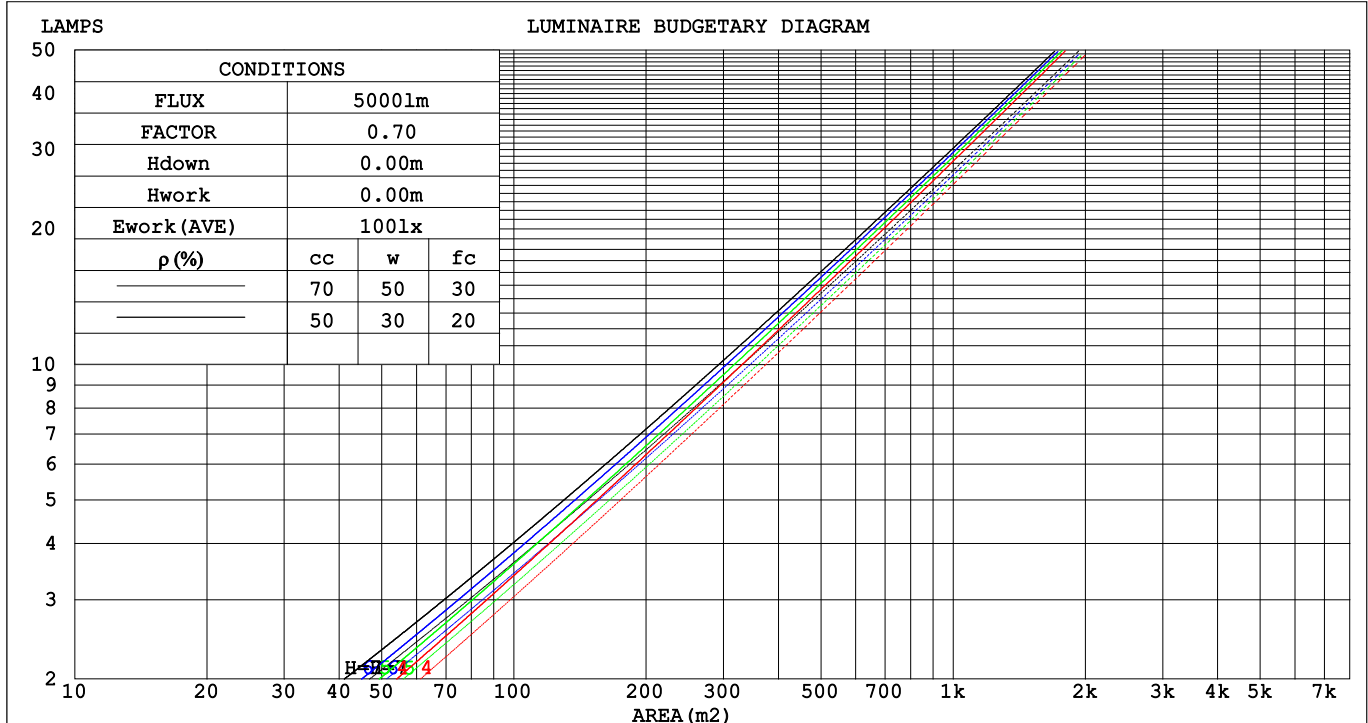
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 07 October 2020

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:229.90V I:0.0220A P:4.5000W PF:0.9180 Freq:50.00Hz Lamp Flux:344.454x1 lm		
NAME: SLDL280F-4030P-BGDD08	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															



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:07 October 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:229.90V I:0.0220A P:4.5000W PF:0.9180 Freq:50.00Hz Lamp Flux:344.454x1 lm																	
NAME: SLDL280F-4030P-BGDD08									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	.167	.095	.030	.161	.092	.029	.148	.085	.027	.136	.079	.025	.126	.073	.024	
2.0	.159	.087	.027	.153	.084	.026	.143	.079	.025	.133	.075	.023	.124	.070	.022	
3.0	.150	.080	.024	.145	.078	.023	.136	.074	.022	.128	.070	.022	.120	.067	.021	
4.0	.142	.074	.022	.138	.072	.021	.130	.069	.021	.123	.066	.020	.117	.063	.019	
5.0	.135	.069	.020	.131	.067	.020	.125	.065	.019	.118	.063	.019	.113	.060	.018	
6.0	.128	.064	.018	.125	.063	.018	.119	.061	.018	.114	.059	.017	.109	.057	.017	
7.0	.122	.060	.017	.119	.060	.017	.114	.058	.017	.110	.056	.016	.105	.055	.016	
8.0	.117	.057	.016	.114	.056	.016	.110	.055	.016	.106	.053	.015	.102	.052	.015	
9.0	.112	.054	.015	.110	.053	.015	.106	.052	.015	.102	.051	.015	.098	.050	.014	
10.0	.107	.051	.014	.105	.051	.014	.102	.050	.014	.098	.049	.014	.095	.048	.014	

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	.170	.157	.146	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.154	.133	.114	.132	.114	.099	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.141	.113	.091	.121	.098	.079	.083	.068	.056	.048	.040	.033	.015	.013	.011	
4.0	.130	.099	.074	.112	.085	.065	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.121	.087	.061	.104	.075	.053	.072	.052	.038	.042	.031	.022	.013	.010	.007	
6.0	.113	.077	.051	.097	.067	.045	.067	.047	.032	.039	.028	.019	.013	.009	.006	
7.0	.106	.070	.044	.092	.060	.038	.063	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.101	.063	.037	.087	.055	.033	.060	.038	.023	.035	.023	.014	.011	.007	.005	
9.0	.095	.058	.033	.082	.050	.028	.057	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.091	.053	.029	.078	.046	.025	.054	.033	.018	.032	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:07 October 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:229.90V I:0.0220A P:4.5000W PF:0.9180 Freq:50.00Hz Lamp Flux:344.454x1 lm											
NAME: SLDL280F-4030P-BGDD08						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		20.8	21.6	21.0	21.8	22.0	20.8	21.6	21.0	21.8	21.9
	3H	20.8	21.6	21.1	21.8	22.0	20.8	21.6	21.1	21.8	22.0
	4H	20.8	21.5	21.1	21.8	22.0	20.8	21.5	21.1	21.7	22.0
	6H	20.7	21.5	21.0	21.7	21.9	20.7	21.4	21.0	21.7	21.9
	8H	20.7	21.4	21.0	21.6	21.9	20.7	21.4	21.0	21.6	21.9
	12H	20.7	21.3	21.0	21.6	21.9	20.6	21.3	21.0	21.6	21.8
4H	2H	20.7	21.4	20.9	21.6	21.9	20.7	21.4	20.9	21.6	21.9
	3H	20.8	21.4	21.1	21.7	22.0	20.8	21.4	21.1	21.7	22.0
	4H	20.8	21.4	21.1	21.7	22.0	20.8	21.4	21.1	21.7	22.0
	6H	20.7	21.3	21.1	21.6	21.9	20.7	21.2	21.1	21.6	21.9
	8H	20.7	21.2	21.1	21.5	21.9	20.7	21.2	21.1	21.5	21.9
	12H	20.7	21.1	21.1	21.5	21.9	20.6	21.1	21.1	21.5	21.8
8H	4H	20.7	21.2	21.1	21.5	21.9	20.7	21.1	21.1	21.5	21.9
	6H	20.6	21.0	21.1	21.4	21.9	20.6	21.0	21.1	21.4	21.8
	8H	20.6	21.0	21.1	21.4	21.8	20.6	21.0	21.1	21.4	21.8
	12H	20.6	20.9	21.0	21.3	21.8	20.6	20.9	21.0	21.3	21.8
12H	4H	20.6	21.1	21.0	21.4	21.8	20.6	21.1	21.0	21.4	21.8
	6H	20.6	21.0	21.0	21.4	21.8	20.6	20.9	21.0	21.4	21.8
	8H	20.6	20.9	21.0	21.3	21.8	20.6	20.9	21.0	21.3	21.8
Variations with the observer position at spacings:											
S = 1.0H		+ 2.4 / - 4.2					+ 2.3 / - 4.1				
1.5H		+ 4.4 / - 3.7					+ 4.3 / - 3.5				
2.0H		+ 3.6 / - 1.3					+ 3.2 / - 1.2				

CIE Pub.117, 344.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.7)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:07 October 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:229.90V I:0.0220A P:4.5000W PF:0.9180 Freq:50.00Hz Lamp Flux:344.454x1 lm		
NAME: SLDL280F-4030P-BGDD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

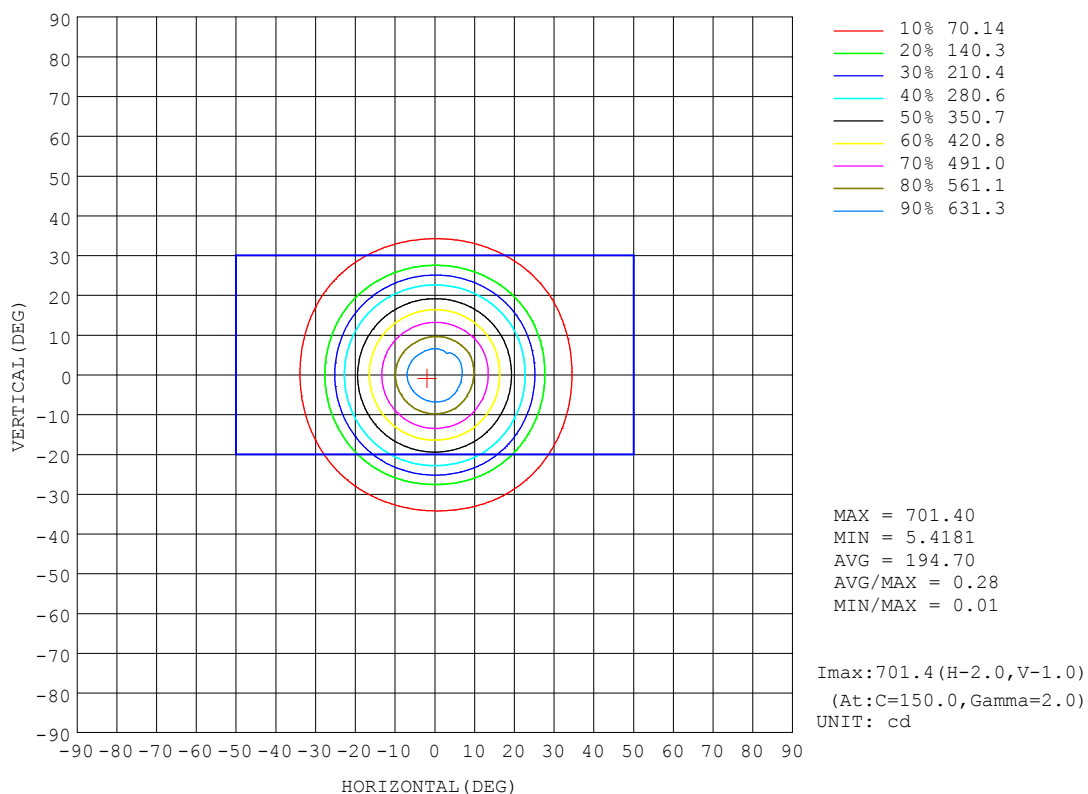
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	80	77	73
0.80	95	89	85	94	88	85	93	88	85	81
1.00	99	94	90	98	93	90	97	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	108	104	101	107	103	100	104	101	99	94
2.50	110	106	103	109	105	102	105	103	101	95
3.00	112	108	106	110	107	105	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	115	113	111	113	111	109	109	108	106	99
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:07 October 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:229.90V I:0.0220A P:4.5000W PF:0.9180 Freq:50.00Hz Lamp Flux:344.454x1 lm		
NAME: SLDL280F-4030P-BGDD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

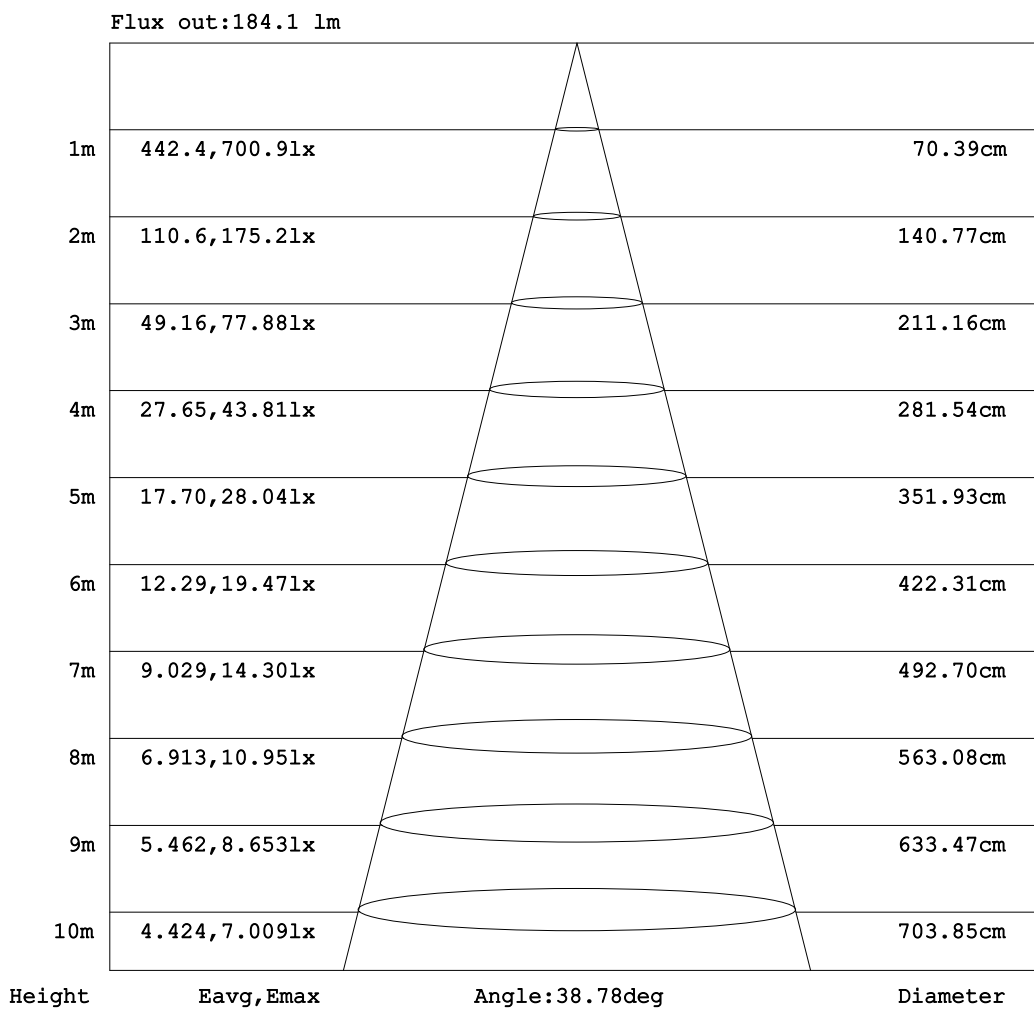


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:07 October 2020

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:229.90V I:0.0220A P:4.5000W PF:0.9180 Freq:50.00Hz Lamp Flux:344.454x1 lm		
NAME: SLDL280F-4030P-BGDD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



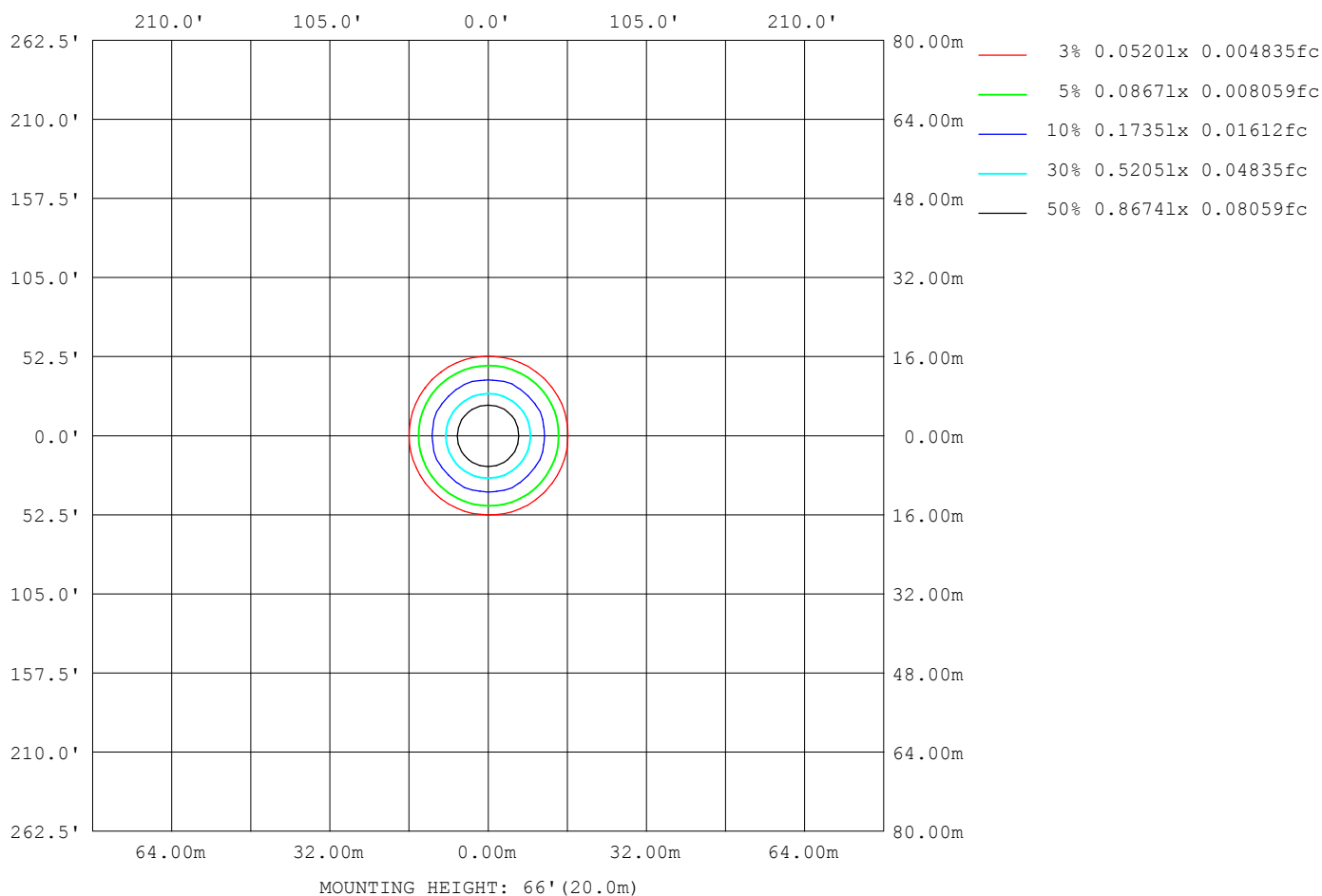
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:07 October 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:229.90V I:0.0220A P:4.5000W PF:0.9180 Freq:50.00Hz Lamp Flux:344.454x1 lm		
NAME: SLDL280F-4030P-BGDD08	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:07 October 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:229.90V I:0.0220A P:4.5000W PF:0.9180 Freq:50.00Hz Lamp Flux:344.454x1 lm		
NAME: SLDL280F-4030P-BGDD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

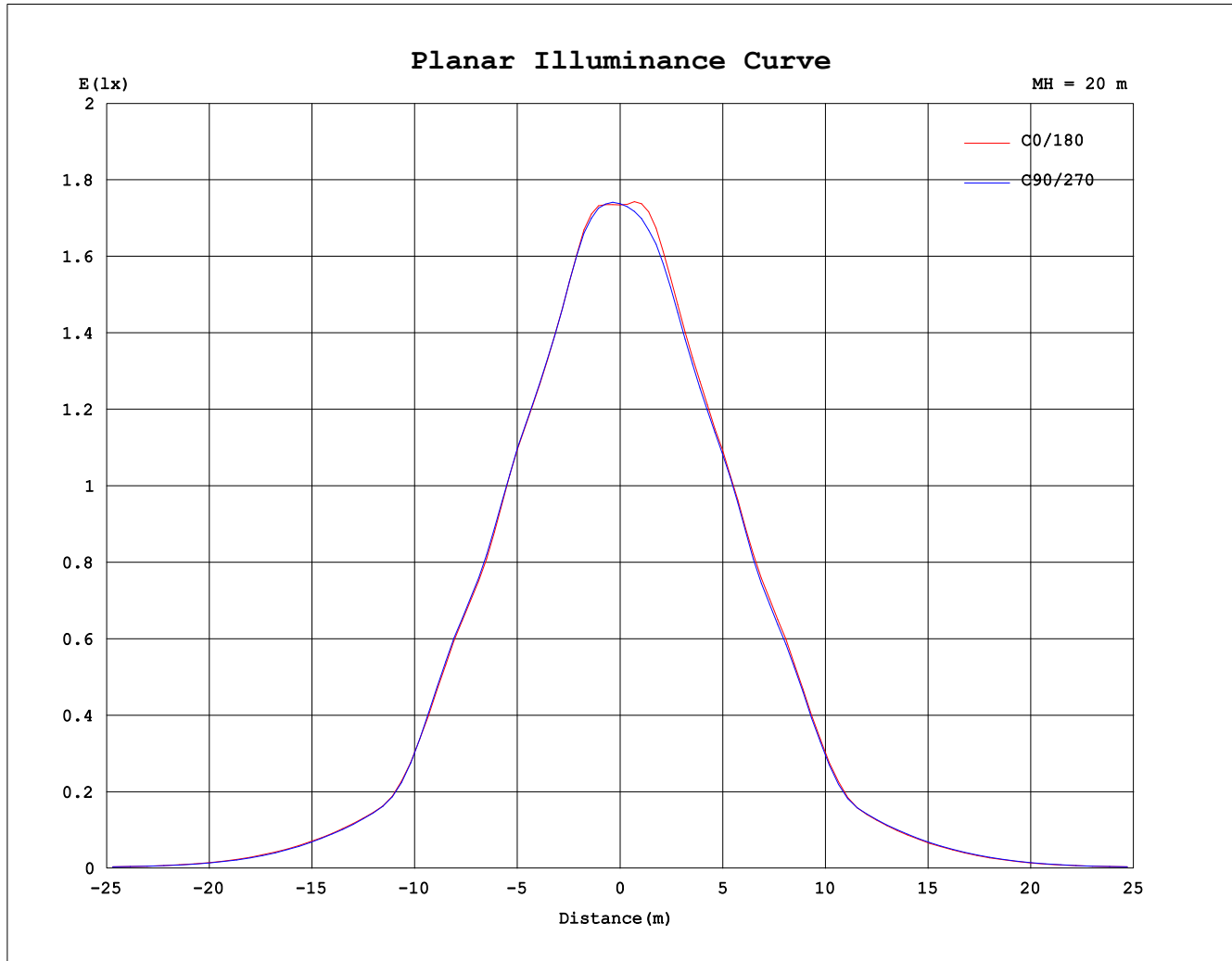
AvgL	cd/m2
L_0~180 (65) av	5883
L_0~180 (75) av	3065
L_0~180 (85) av	1438
L_90~270 (65) av	5820
L_90~270 (75) av	2956
L_90~270 (85) av	1359
L_45 (65) av	5821
L_45 (75) av	2988
L_45 (85) av	1383

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:07 October 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: 07 October 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:

```