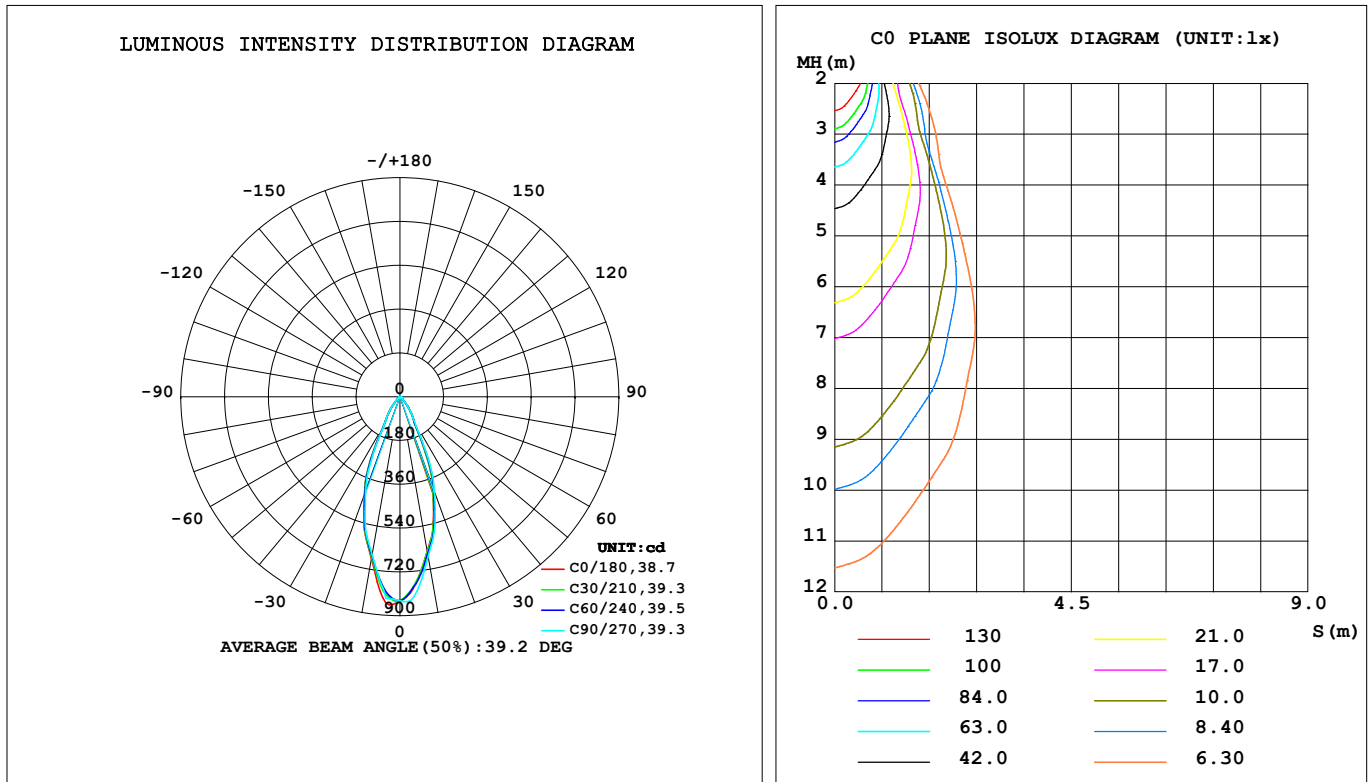


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.90V I:0.0340A P:7.4000W PF:0.9650 Freq:50.00Hz Lamp Flux:417.34lx1 lm		
NAME: SLDL280F-40SDP-BGDD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 56.40 lm/W
MODEL		I _{max} (cd)	871.4	S/MH (C0/180)		0.65
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.63
RATED VOLTAGE (V)	230V	TOTAL FLUX (lm)	417.34	η UP,DN (C0-180)		0.0,49.7
NOMINAL FLUX (lm)	417.341	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,50.3
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: 18 December 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:

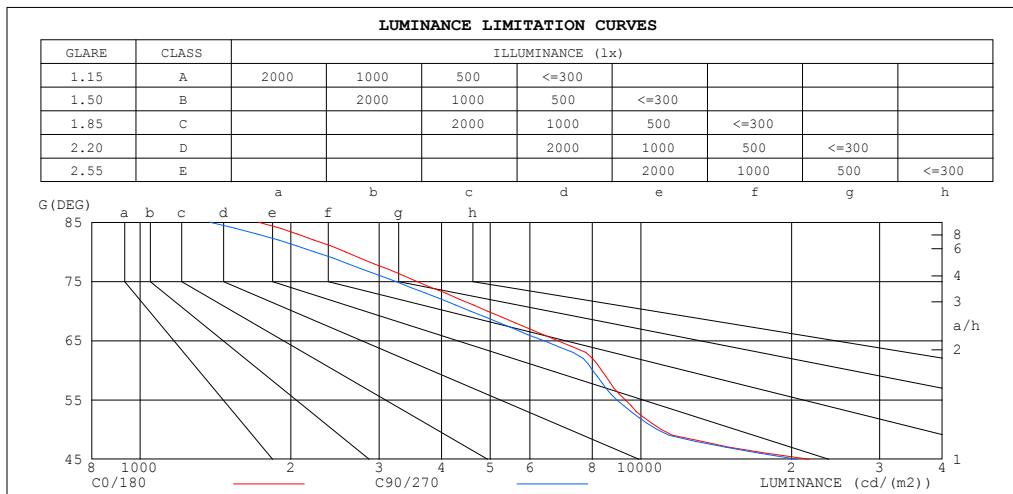
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	646.9	652.7	667.7	682.9	676.7	667.8	660.1	648.5	0- 10	71.27	71.27	17.1,17.1
20	398.1	402.9	413.5	425.6	428.1	422.3	413.3	403.8	10- 20	150.4	221.6	53.1,53.1
30	114.6	116.6	120.9	126.5	129.2	126.4	123.8	116.5	20- 30	118.0	339.6	81.4,81.4
40	44.39	44.56	43.99	43.57	44.88	47.26	47.99	45.08	30- 40	50.00	389.6	93.4,93.4
50	8.875	8.661	8.698	8.954	8.926	9.140	9.254	8.815	40- 50	16.66	406.3	97.4,97.4
60	5.244	5.070	5.031	5.186	5.093	5.274	5.436	5.161	50- 60	6.055	412.4	98.8,98.8
70	2.120	2.010	1.961	2.066	1.982	2.050	2.177	2.059	60- 70	3.541	415.9	99.7,99.7
80	0.5610	0.5162	0.4861	0.5265	0.4931	0.5125	0.5595	0.5239	70- 80	1.230	417.1	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	0.2138	417.3	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: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:18 December 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:0.0340A P:7.4000W PF:0.9650 Freq:50.00Hz Lamp Flux:417.34lx1 lm		
NAME: SLDL280F-40SDP-BGDD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1720	1377
80	2572	2230
75	3568	3235
70	4936	4567
65	6817	6397
60	8351	8015
55	9310	8951
50	10993	10780
45	21713	20533

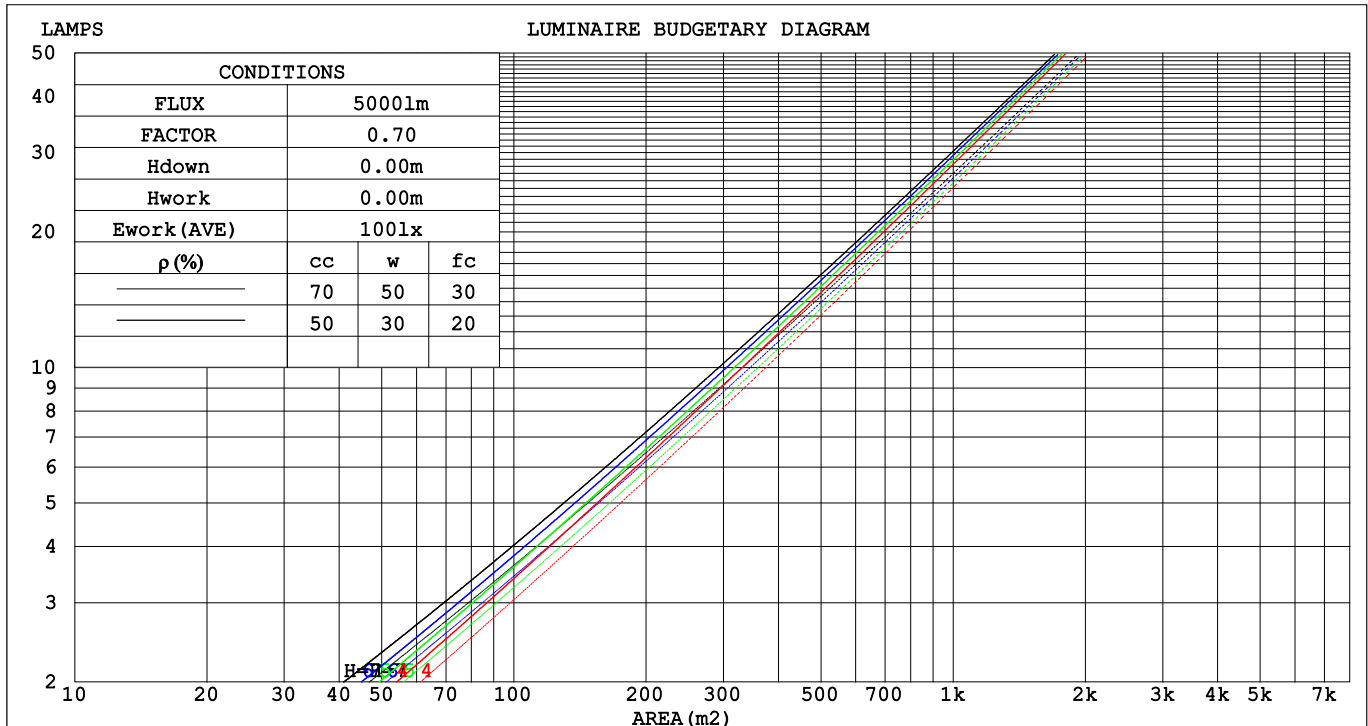
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 18 December 2020

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:0.0340A P:7.4000W PF:0.9650 Freq:50.00Hz Lamp Flux:417.34lx1 lm		
NAME: SLDL280F-40SDP-BGDD15	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:18 December 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:0.0340A P:7.4000W PF:0.9650 Freq:50.00Hz Lamp Flux:417.341x1 lm																	
NAME: SLDL280F-40SDP-BGDD15									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	.160	.092	.029	.148	.085	.027	.136	.079	.025	.126	.073	.024	
2.0	.159	.087	.027	.153	.084	.026	.142	.079	.025	.133	.074	.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	.119	.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	.120	.060	.017	.115	.058	.017	.110	.056	.016	.105	.055	.016	
8.0	.117	.057	.016	.114	.056	.016	.110	.055	.016	.106	.054	.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	.107	.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	.003	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:18 December 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:0.0340A P:7.4000W PF:0.9650 Freq:50.00Hz Lamp Flux:417.34lx1 lm											
NAME: SLDL280F-40SDP-BGDD15					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		20.5	21.3	20.7	21.5	21.7	20.5	21.4	20.8	21.6	21.7
	3H	20.5	21.3	20.8	21.5	21.7	20.6	21.4	20.8	21.6	21.8
	4H	20.5	21.3	20.8	21.5	21.7	20.5	21.3	20.8	21.5	21.7
	6H	20.5	21.2	20.8	21.4	21.6	20.5	21.2	20.8	21.4	21.7
	8H	20.4	21.1	20.7	21.4	21.6	20.4	21.1	20.8	21.4	21.6
	12H	20.4	21.0	20.7	21.3	21.6	20.4	21.1	20.7	21.3	21.6
4H	2H	20.4	21.1	20.7	21.4	21.6	20.4	21.2	20.7	21.4	21.6
	3H	20.5	21.1	20.8	21.4	21.7	20.5	21.2	20.8	21.4	21.7
	4H	20.5	21.1	20.8	21.4	21.7	20.5	21.1	20.8	21.4	21.7
	6H	20.4	21.0	20.8	21.3	21.6	20.5	21.0	20.8	21.3	21.7
	8H	20.4	20.9	20.8	21.2	21.6	20.4	20.9	20.8	21.3	21.6
	12H	20.4	20.8	20.8	21.2	21.6	20.4	20.8	20.8	21.2	21.6
8H	4H	20.4	20.9	20.8	21.2	21.6	20.4	20.9	20.8	21.2	21.6
	6H	20.3	20.7	20.8	21.1	21.6	20.4	20.8	20.8	21.2	21.6
	8H	20.3	20.7	20.8	21.1	21.5	20.3	20.7	20.8	21.1	21.5
	12H	20.3	20.6	20.7	21.0	21.5	20.3	20.6	20.8	21.0	21.5
12H	4H	20.3	20.8	20.7	21.1	21.5	20.4	20.8	20.8	21.2	21.6
	6H	20.3	20.7	20.7	21.1	21.5	20.3	20.7	20.8	21.1	21.5
	8H	20.3	20.6	20.7	21.0	21.5	20.3	20.6	20.8	21.0	21.5
Variations with the observer position at spacings:											
S = 1.0H	+ 2.4 / - 4.2					+ 2.4 / - 4.4					
1.5H	+ 4.4 / - 3.6					+ 4.5 / - 3.7					
2.0H	+ 3.5 / - 1.3					+ 3.2 / - 1.1					

CIE Pub.117, 417.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.0)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:18 December 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:0.0340A P:7.4000W PF:0.9650 Freq:50.00Hz Lamp Flux:417.34lx1 lm		
NAME: SLDL280F-40SDP-BGDD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

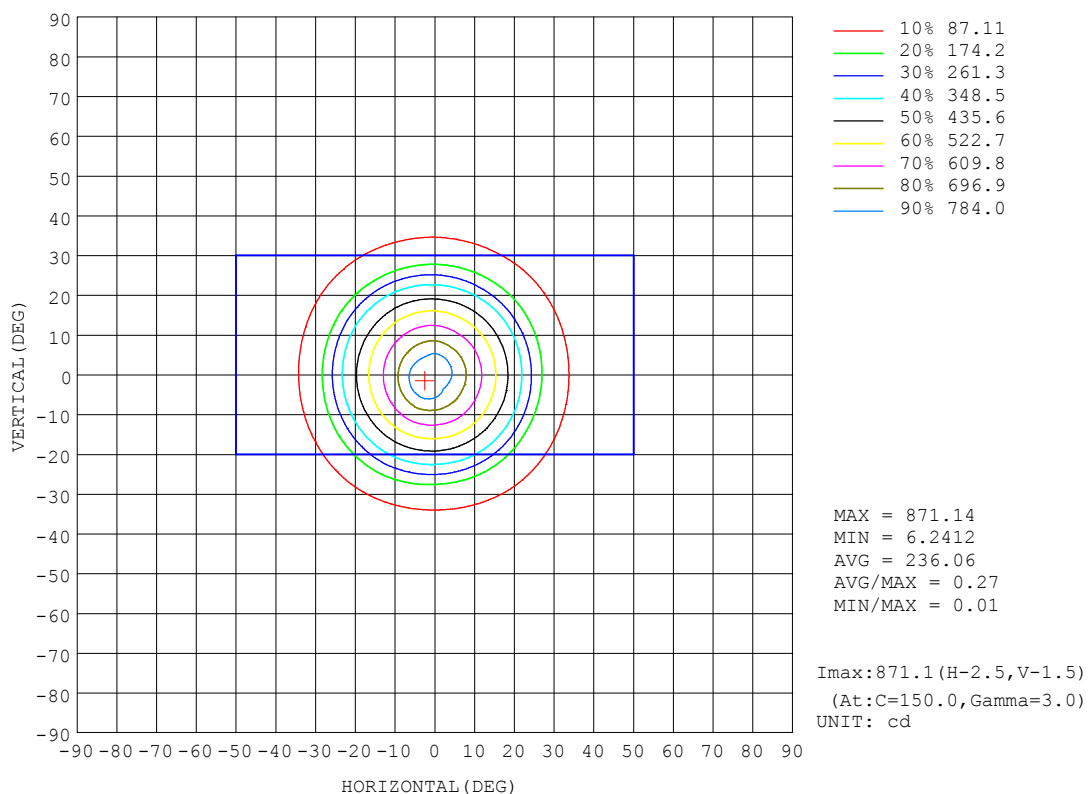
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	81	77	74
0.80	95	89	85	94	89	85	93	88	85	81
1.00	99	94	90	98	93	90	97	93	89	85
1.25	103	98	95	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	109	104	101	107	103	100	104	101	99	94
2.50	110	106	103	109	105	103	106	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:18 December 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:0.0340A P:7.4000W PF:0.9650 Freq:50.00Hz Lamp Flux:417.341x1 lm		
NAME: SLDL280F-40SDP-BGDD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

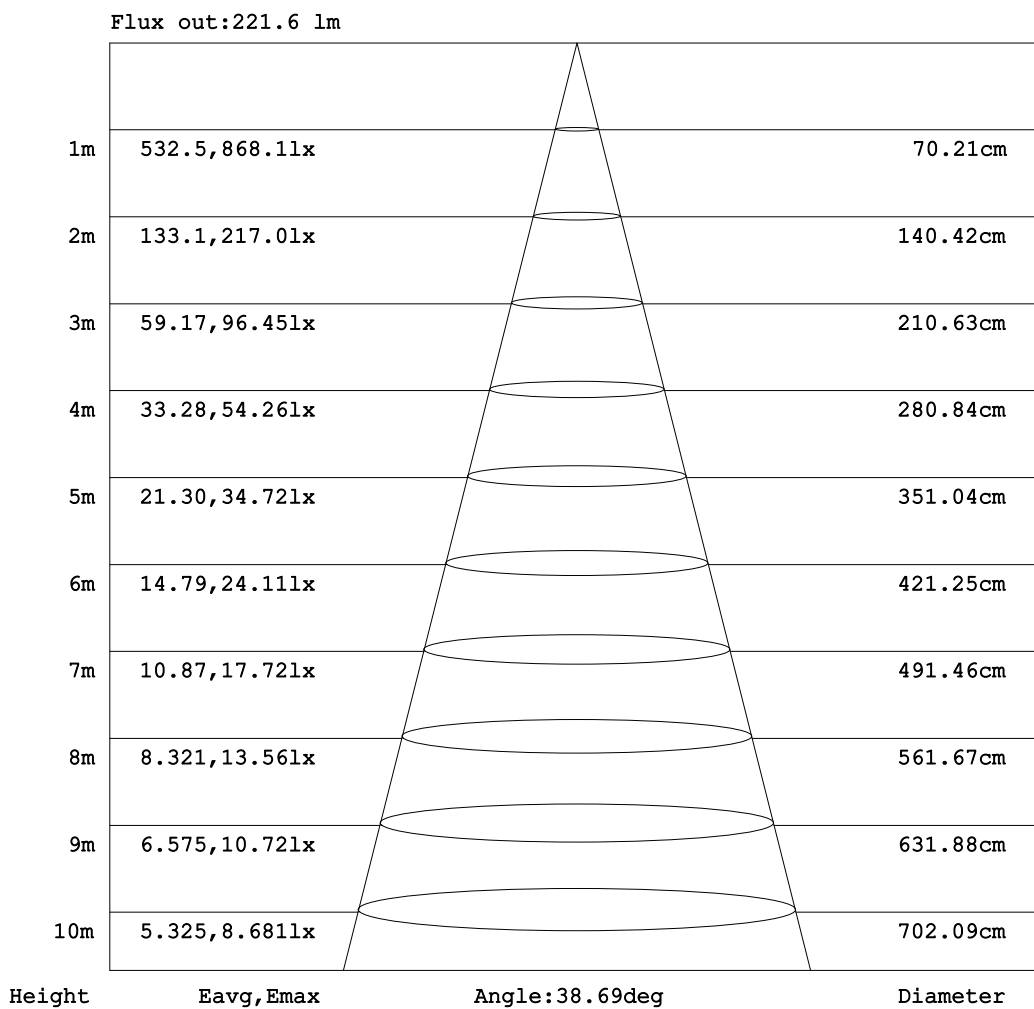


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 18 December 2020

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:0.0340A P:7.4000W PF:0.9650 Freq:50.00Hz Lamp Flux:417.34lx1 lm		
NAME: SLDL280F-40SDP-BGDD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



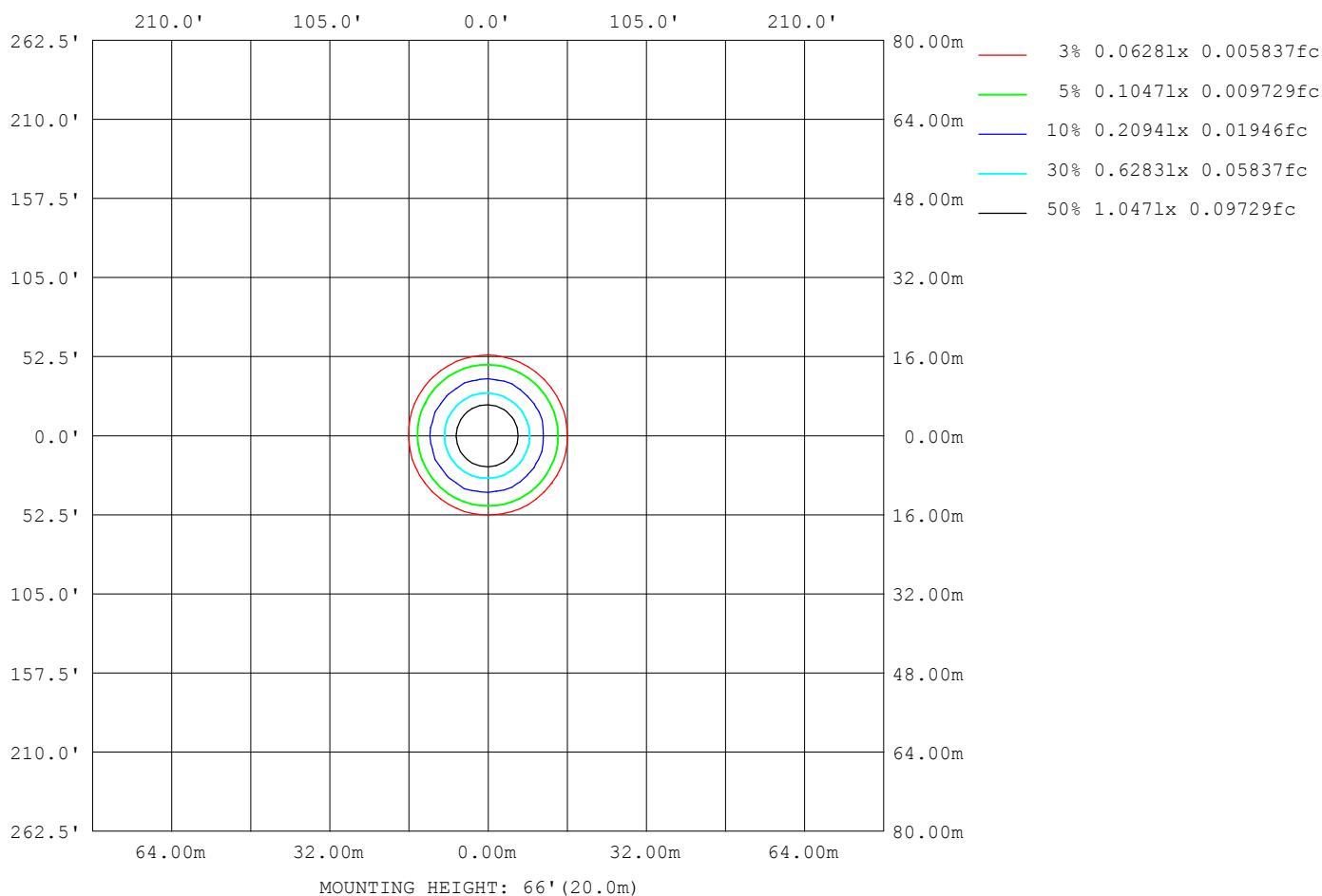
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:18 December 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:0.0340A P:7.4000W PF:0.9650 Freq:50.00Hz Lamp Flux:417.34lx1 lm		
NAME: SLDL280F-40SDP-BGDD15	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:18 December 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:0.0340A P:7.4000W PF:0.9650 Freq:50.00Hz Lamp Flux:417.34lx1 lm		
NAME: SLDL280F-40SDP-BGDD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

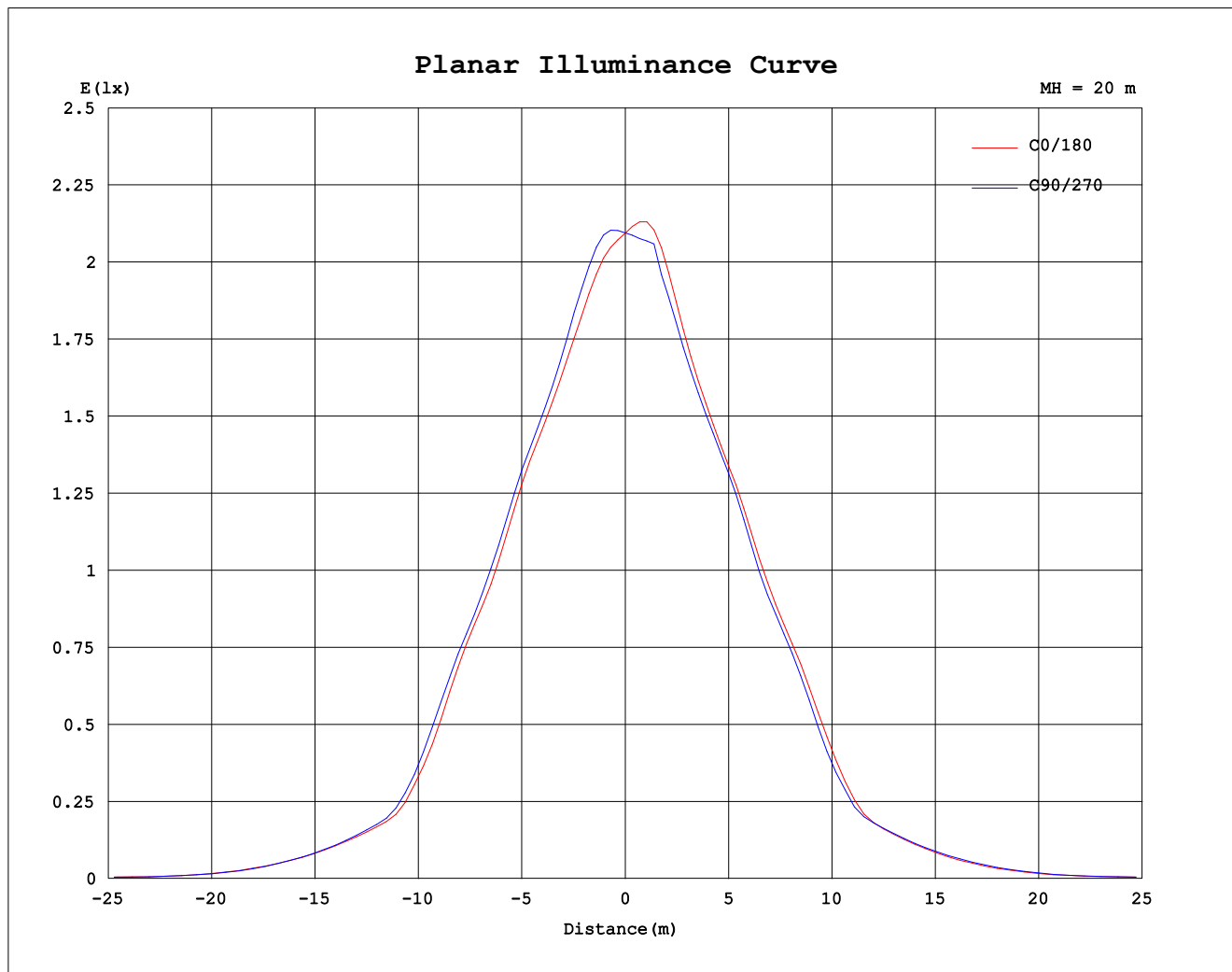
AvgL	cd/m2
L_0~180 (65) av	6664
L_0~180 (75) av	3420
L_0~180 (85) av	1556
L_90~270 (65) av	6716
L_90~270 (75) av	3438
L_90~270 (85) av	1558
L_45 (65) av	6629
L_45 (75) av	3399
L_45 (85) av	1539

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:18 December 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: 18 December 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:

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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:

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