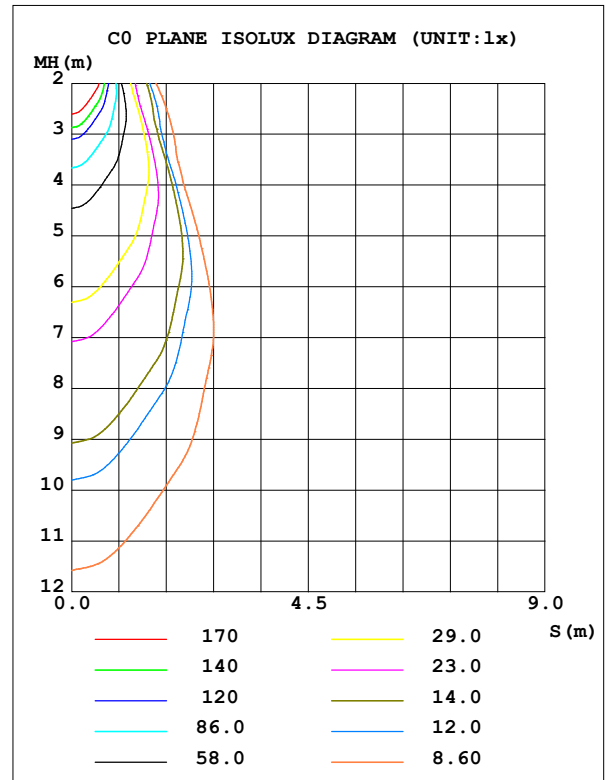
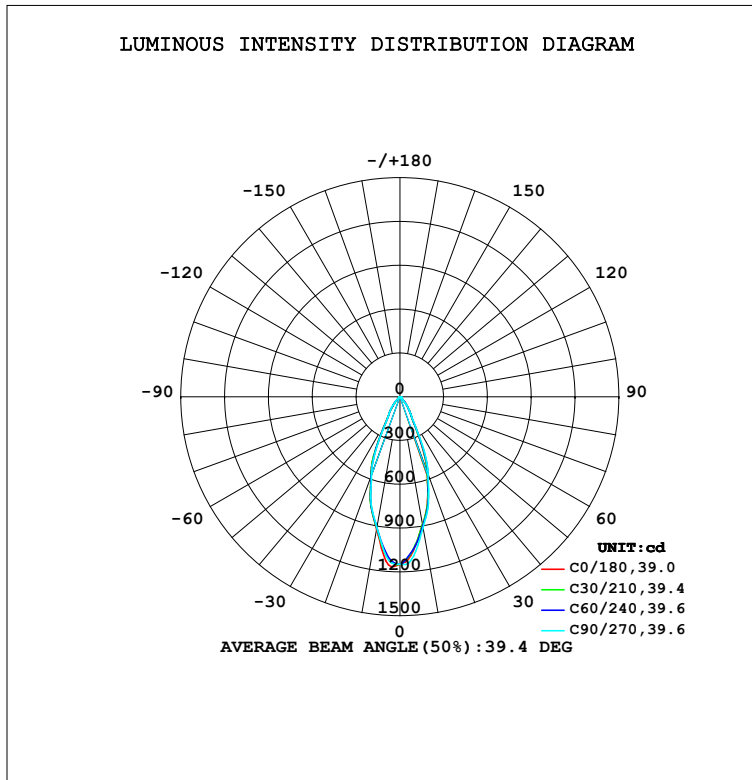


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.90V I:0.0490A P:11.000W PF:0.9780 Freq:50.00Hz Lamp Flux:574.036x1 lm		
NAME: SLDL280F-40SDP-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 52.19 lm/W
MODEL		I _{max} (cd)	1187	S/MH (C0/180)		0.64
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.63
RATED VOLTAGE (V)	230V	TOTAL FLUX (lm)	574.04	η UP,DN (C0-180)		0.0,49.5
NOMINAL FLUX (lm)	574.036	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,50.5
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:

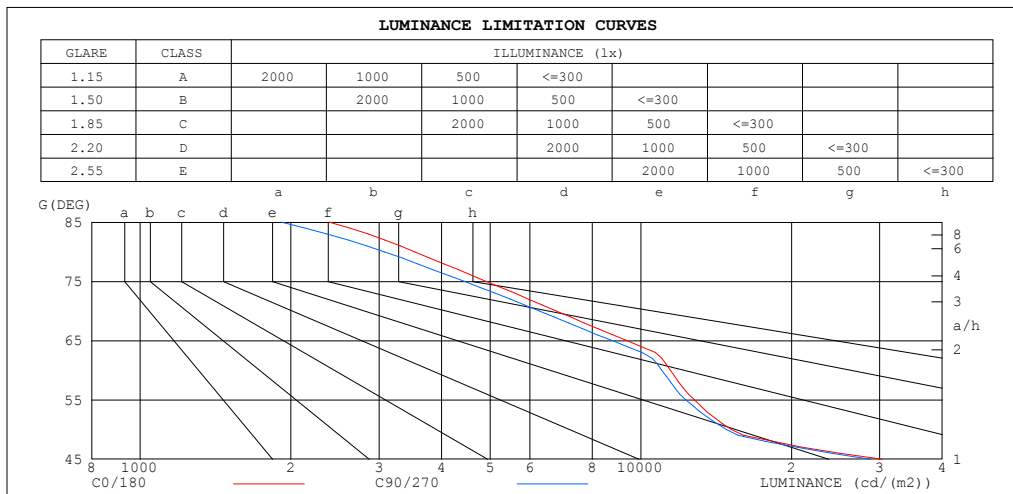
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	890.9	895.4	912.1	930.7	923.1	915.0	911.1	896.7	0- 10	97.69	97.69	17,17
20	551.2	553.6	564.6	579.4	582.6	579.7	572.8	561.1	10- 20	206.3	304.0	53,53
30	158.9	160.7	165.4	176.2	176.3	176.4	172.5	162.6	20- 30	162.5	466.5	81.3,81.3
40	61.40	61.99	61.16	60.79	62.06	65.58	66.82	62.30	30- 40	69.16	535.6	93.3,93.3
50	12.18	11.94	11.97	12.34	12.27	12.59	12.81	12.18	40- 50	23.22	558.9	97.4,97.4
60	7.162	6.958	6.921	7.129	6.991	7.234	7.464	7.080	50- 60	8.325	567.2	98.8,98.8
70	2.900	2.758	2.698	2.839	2.719	2.811	2.988	2.825	60- 70	4.859	572.1	99.7,99.7
80	0.7666	0.7109	0.6705	0.7227	0.6776	0.7033	0.7680	0.7212	70- 80	1.689	573.7	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	0.2955	574.0	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:0.0490A P:11.000W PF:0.9780 Freq:50.00Hz Lamp Flux:574.036x1 lm		
NAME: SLDL280F-40SDP-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2386	1917
80	3534	3072
75	4910	4445
70	6786	6276
65	9376	8775
60	11465	11013
55	12789	12295
50	15170	14822
45	30377	28732

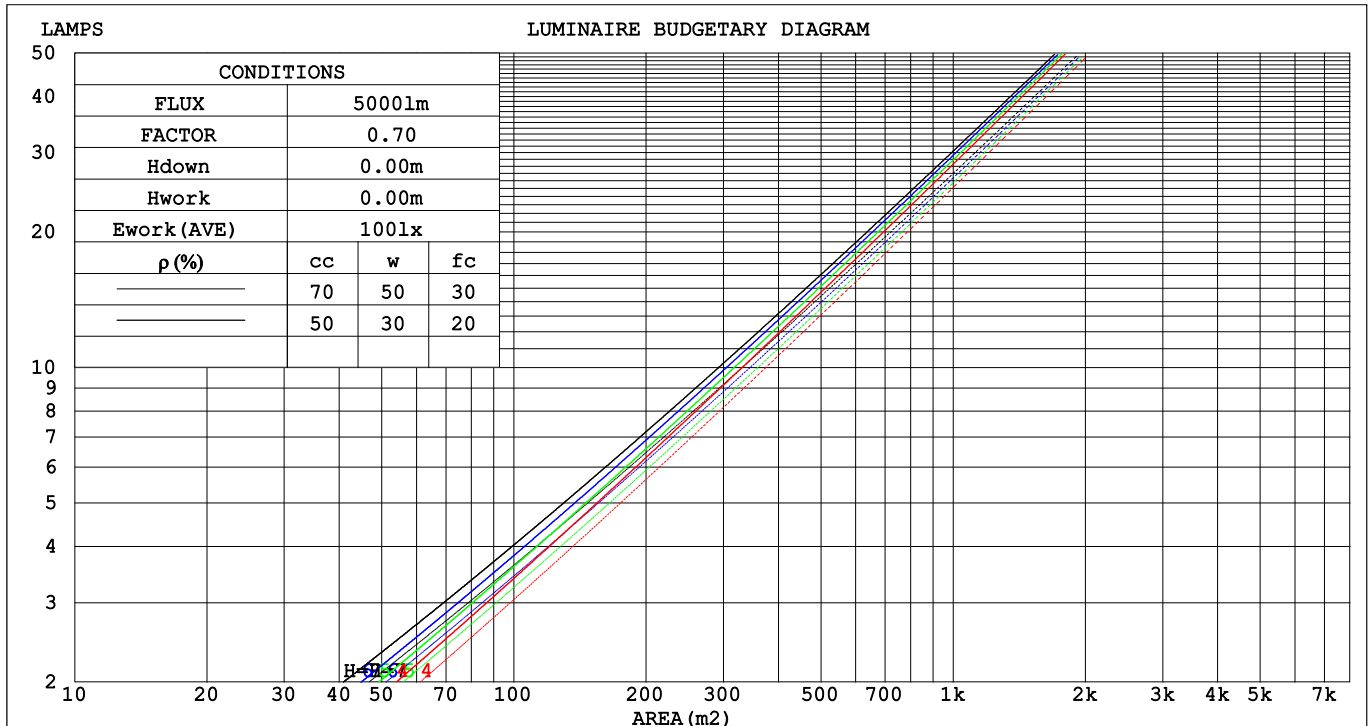
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:18 December 2020

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:0.0490A P:11.000W PF:0.9780 Freq:50.00Hz Lamp Flux:574.036x1 lm		
NAME: SLDL280F-40SDP-BGDD11	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:0.0490A P:11.000W PF:0.9780 Freq:50.00Hz Lamp Flux:574.036x1 lm																	
NAME: SLDL280F-40SDP-BGDD11									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	.137	.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	.137	.074	.022	.128	.070	.022	.121	.067	.021	
4.0	.142	.074	.022	.138	.072	.021	.131	.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	.120	.061	.018	.114	.059	.017	.109	.057	.017	
7.0	.122	.061	.017	.120	.060	.017	.115	.058	.017	.110	.056	.016	.105	.055	.016	
8.0	.117	.057	.016	.115	.056	.016	.110	.055	.016	.106	.054	.015	.102	.052	.015	
9.0	.112	.054	.015	.110	.054	.015	.106	.052	.015	.102	.051	.015	.098	.050	.014	
10.0	.107	.052	.014	.106	.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	.055	.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:0.0490A P:11.000W PF:0.9780 Freq:50.00Hz Lamp Flux:574.036x1 lm											
NAME: SLDL280F-40SDP-BGDD11					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		20.6	21.4	20.8	21.6	21.7	20.6	21.5	20.8	21.6	21.8
	3H	20.6	21.4	20.8	21.6	21.8	20.6	21.4	20.9	21.6	21.8
	4H	20.6	21.3	20.8	21.5	21.8	20.6	21.3	20.9	21.6	21.8
	6H	20.5	21.2	20.8	21.5	21.7	20.5	21.2	20.8	21.5	21.7
	8H	20.5	21.2	20.8	21.4	21.7	20.5	21.2	20.8	21.4	21.7
	12H	20.5	21.1	20.8	21.4	21.6	20.5	21.1	20.8	21.4	21.7
4H	2H	20.5	21.2	20.7	21.4	21.6	20.5	21.3	20.8	21.5	21.7
	3H	20.5	21.2	20.9	21.5	21.7	20.6	21.2	20.9	21.5	21.8
	4H	20.5	21.1	20.9	21.4	21.7	20.6	21.2	20.9	21.4	21.8
	6H	20.5	21.0	20.9	21.4	21.7	20.5	21.0	20.9	21.4	21.7
	8H	20.5	21.0	20.9	21.3	21.7	20.5	21.0	20.9	21.3	21.7
	12H	20.4	20.9	20.8	21.2	21.6	20.4	20.9	20.8	21.2	21.6
8H	4H	20.4	20.9	20.8	21.3	21.6	20.5	20.9	20.8	21.3	21.7
	6H	20.4	20.8	20.8	21.2	21.6	20.4	20.8	20.8	21.2	21.6
	8H	20.4	20.7	20.8	21.1	21.6	20.4	20.7	20.8	21.2	21.6
	12H	20.3	20.6	20.8	21.1	21.6	20.3	20.6	20.8	21.1	21.6
12H	4H	20.4	20.8	20.8	21.2	21.6	20.4	20.9	20.8	21.2	21.6
	6H	20.4	20.7	20.8	21.1	21.6	20.4	20.7	20.8	21.1	21.6
	8H	20.3	20.6	20.8	21.1	21.5	20.3	20.6	20.8	21.1	21.6
Variations with the observer position at spacings:											
S = 1.0H		+ 2.4 / - 4.2					+ 2.4 / - 4.4				
1.5H		+ 4.5 / - 3.7					+ 4.5 / - 3.8				
2.0H		+ 3.6 / - 1.3					+ 3.3 / - 1.2				

CIE Pub.117, 574.0 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: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:0.0490A P:11.000W PF:0.9780 Freq:50.00Hz Lamp Flux:574.036x1 lm		
NAME: SLDL280F-40SDP-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

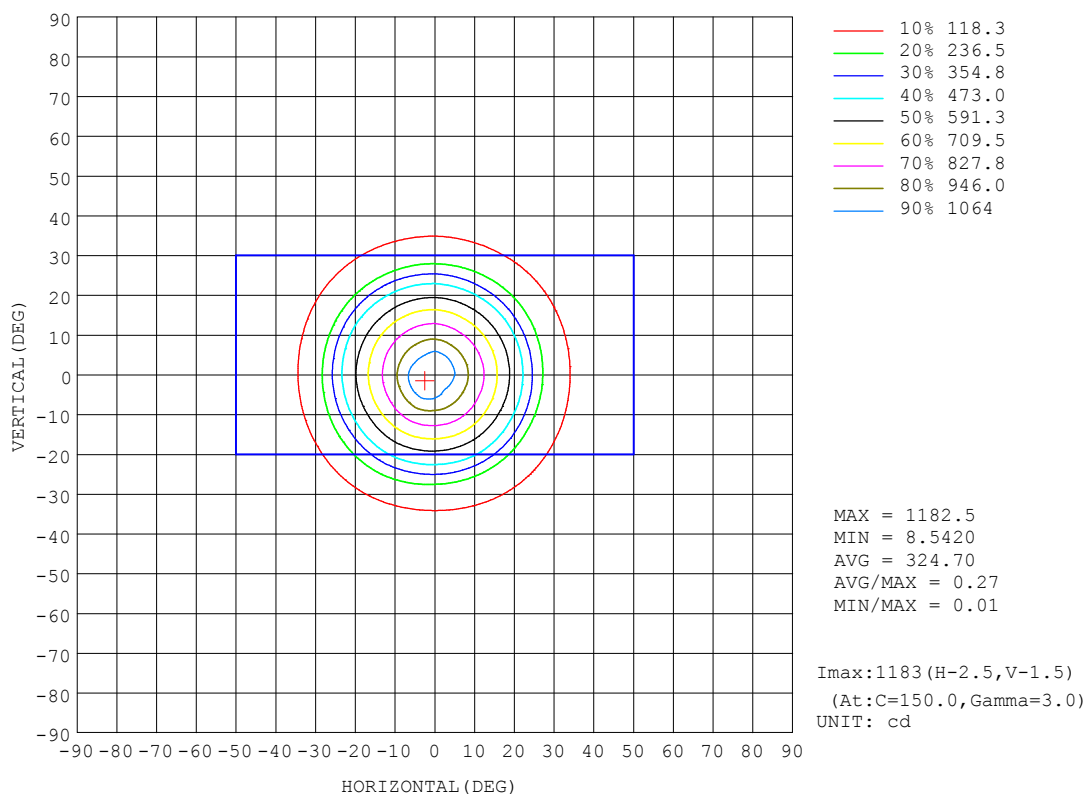
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	80	77	73
0.80	95	89	85	94	89	85	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:0.0490A P:11.000W PF:0.9780 Freq:50.00Hz Lamp Flux:574.036x1 lm		
NAME: SLDL280F-40SDP-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

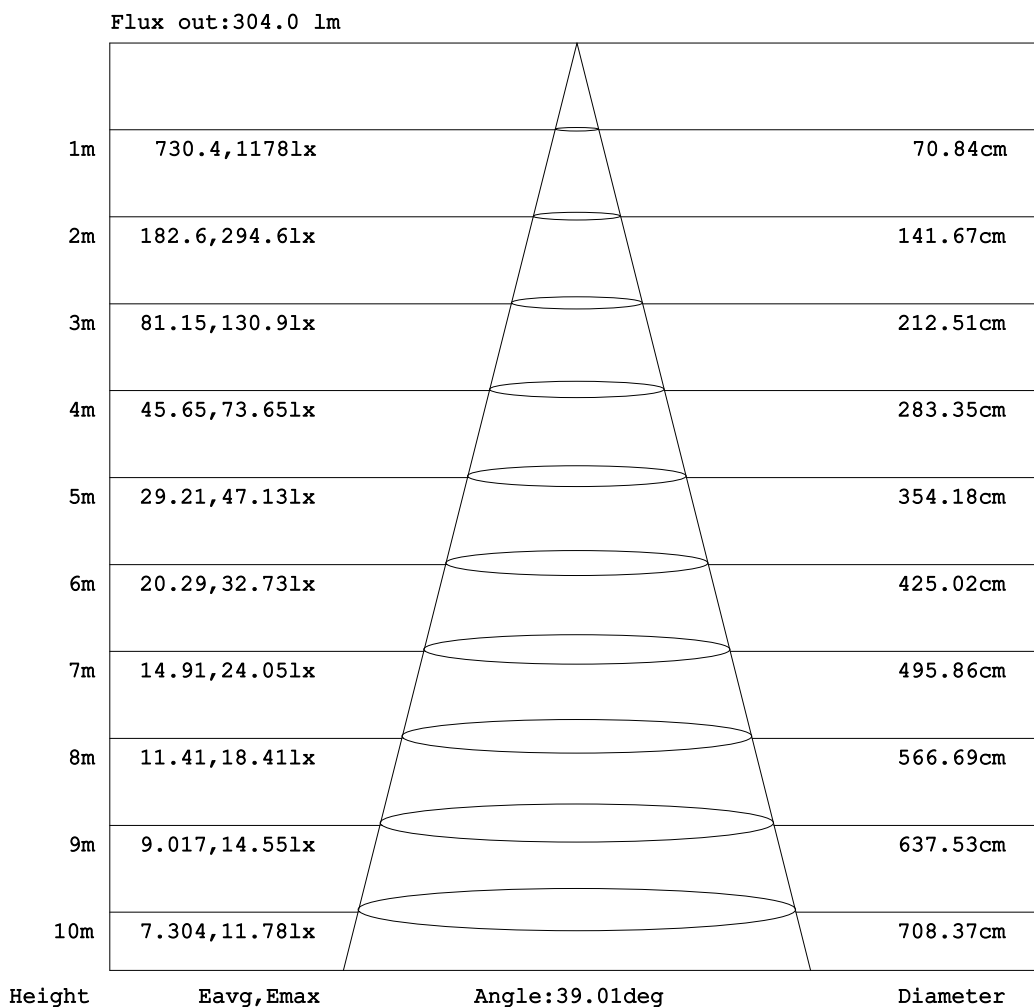


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:18 December 2020

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:0.0490A P:11.000W PF:0.9780 Freq:50.00Hz Lamp Flux:574.036x1 lm		
NAME: SLDL280F-40SDP-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



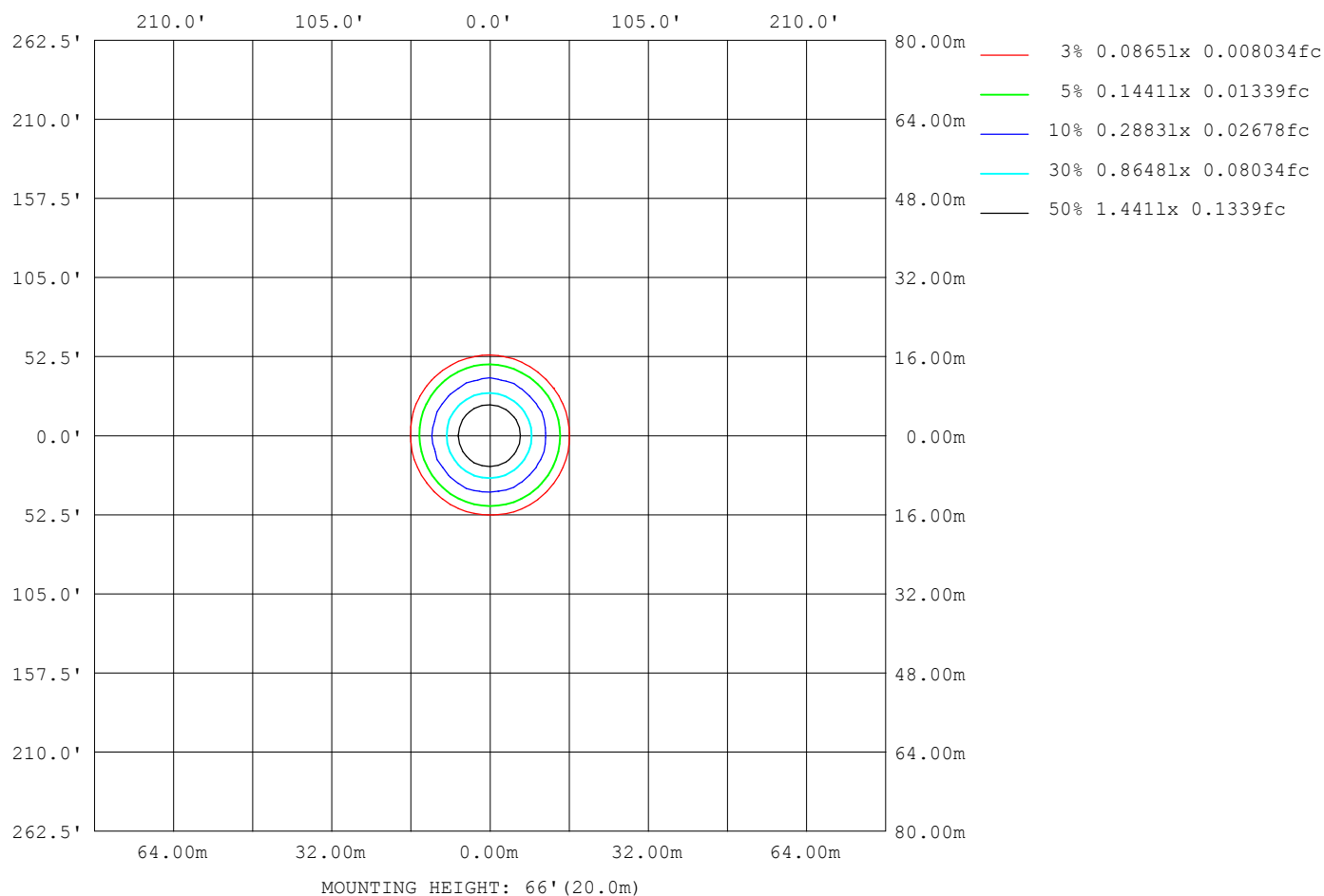
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.0490A P:11.000W PF:0.9780 Freq:50.00Hz Lamp Flux:574.036x1 lm		
NAME: SLDL280F-40SDP-BGDD11	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:0.0490A P:11.000W PF:0.9780 Freq:50.00Hz Lamp Flux:574.036x1 lm		
NAME: SLDL280F-40SDP-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

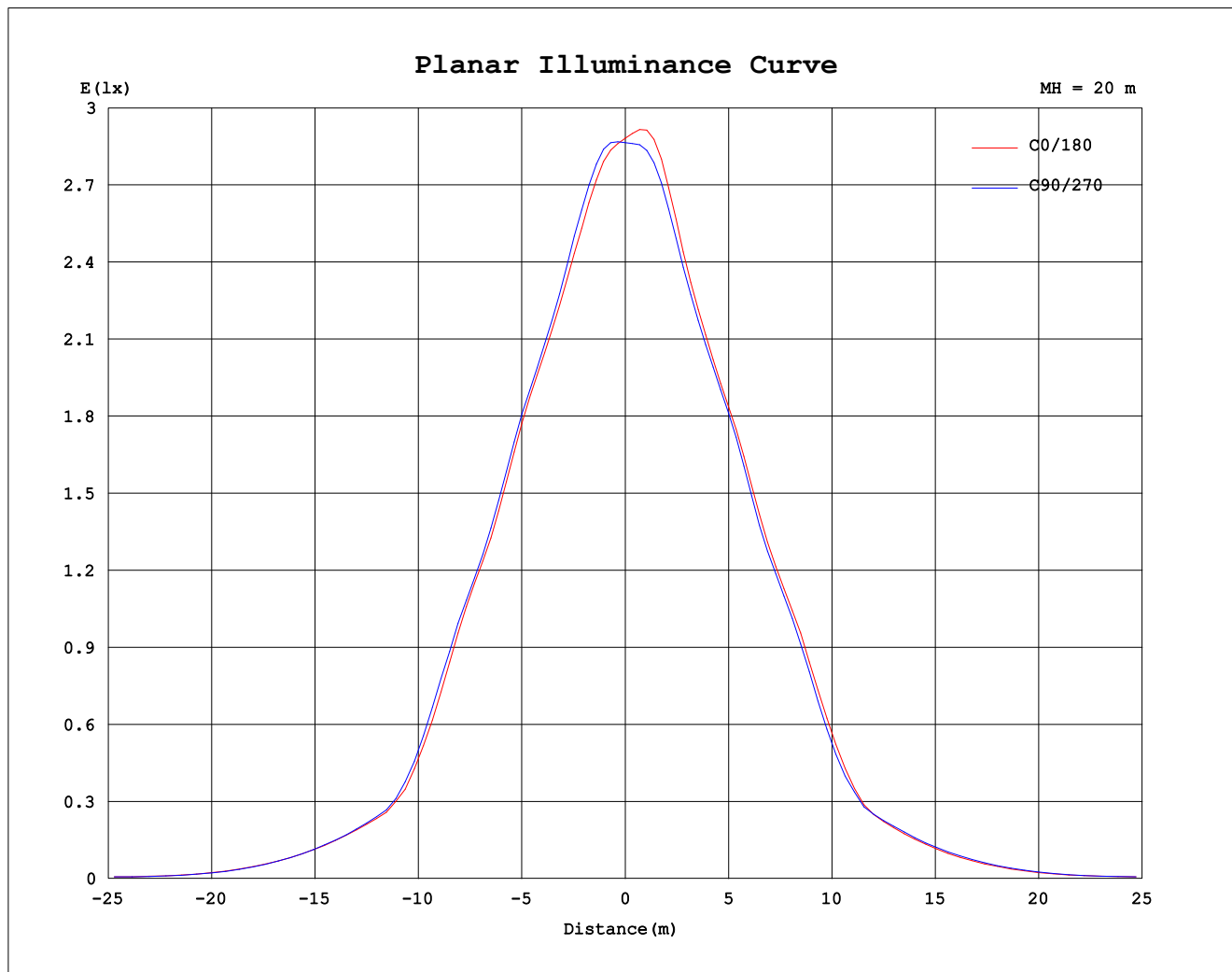
AvgL	cd/m2
L_0~180 (65) av	9129
L_0~180 (75) av	4686
L_0~180 (85) av	2157
L_90~270 (65) av	9226
L_90~270 (75) av	4722
L_90~270 (85) av	2160
L_45 (65) av	9100
L_45 (75) av	4665
L_45 (85) av	2134

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:

```