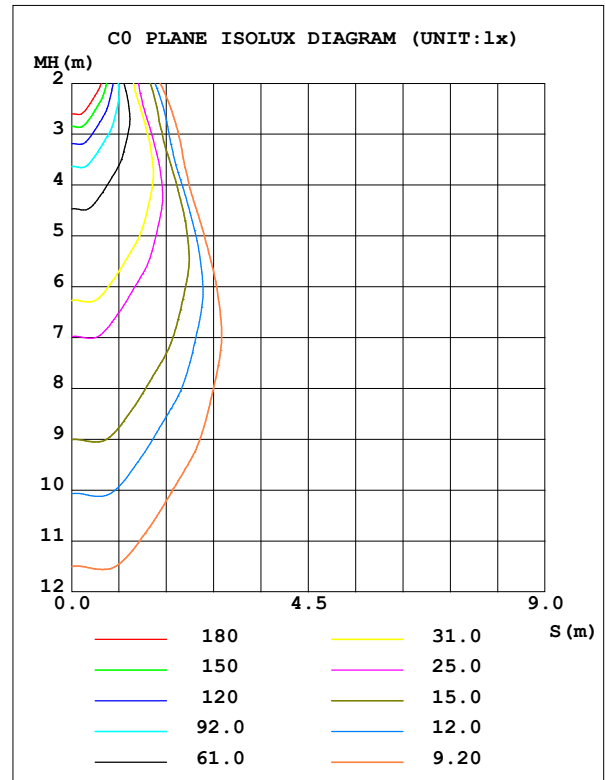
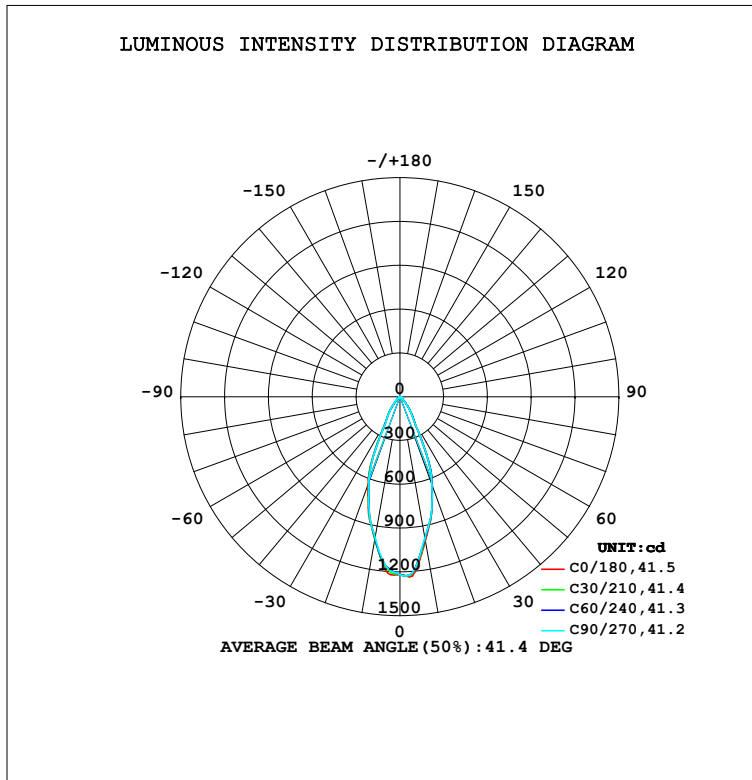


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.00V I:0.0420A P:9.4000W PF:0.9780 Freq:50.00Hz Lamp Flux:651.082x1 lm		
NAME: SLDL280F-4030P-BGDD10	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 69.26 lm/W
MODEL		I _{max} (cd)	1235	S/MH (C0/180)		0.65
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.64
RATED VOLTAGE (V)	230V	TOTAL FLUX (lm)	651.08	η UP,DN (C0-180)		0.0,50.4
NOMINAL FLUX (lm)	651.082	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,49.6
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:21 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:

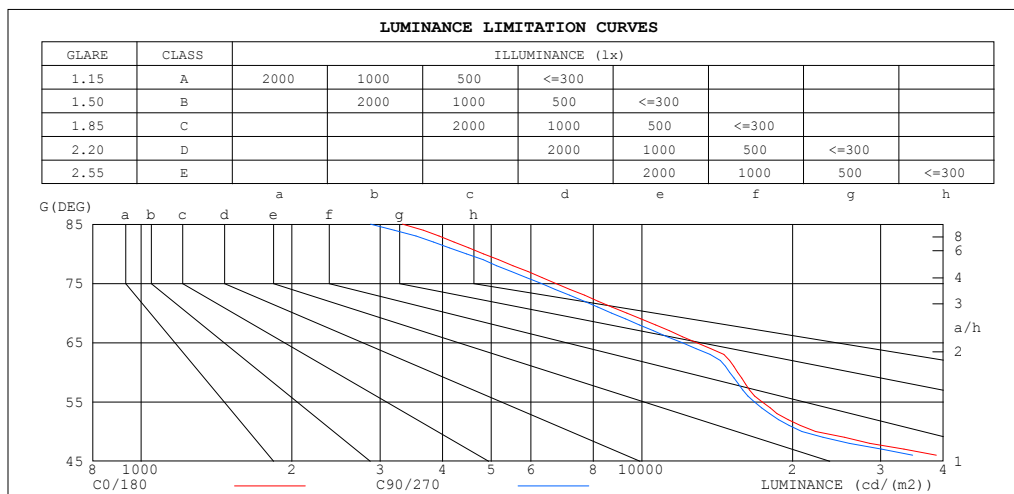
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1004	989.8	984.4	984.0	992.8	990.9	982.9	990.9	0- 10	105.7	105.7	16.2,16.2
20	644.9	647.7	643.8	641.2	639.8	626.4	625.3	636.7	10- 20	226.9	332.5	51.1,51.1
30	204.6	201.9	197.3	199.2	196.4	192.8	190.9	196.8	20- 30	184.8	517.4	79.5,79.5
40	83.06	81.01	76.01	73.41	74.55	75.55	77.48	80.63	30- 40	82.08	599.5	92.1,92.1
50	17.97	17.47	16.88	16.90	17.41	17.13	17.53	17.92	40- 50	31.02	630.5	96.8,96.8
60	9.763	9.434	9.414	9.525	9.774	9.695	9.527	9.532	50- 60	11.27	641.8	98.6,98.6
70	4.010	3.760	3.737	3.814	3.855	3.964	3.879	3.821	60- 70	6.593	648.3	99.6,99.6
80	1.054	0.9749	0.9746	0.9997	0.9807	1.025	0.9988	0.9827	70- 80	2.324	650.7	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	0.4147	651.1	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:21 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:230.00V I:0.0420A P:9.4000W PF:0.9780 Freq:50.00Hz Lamp Flux:651.082x1 lm		
NAME: SLDL280F-4030P-BGDD10	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3326	2873
80	4832	4467
75	6727	6290
70	9334	8695
65	12847	12020
60	15545	14985
55	17376	16764
50	22262	20897
45	45622	40854

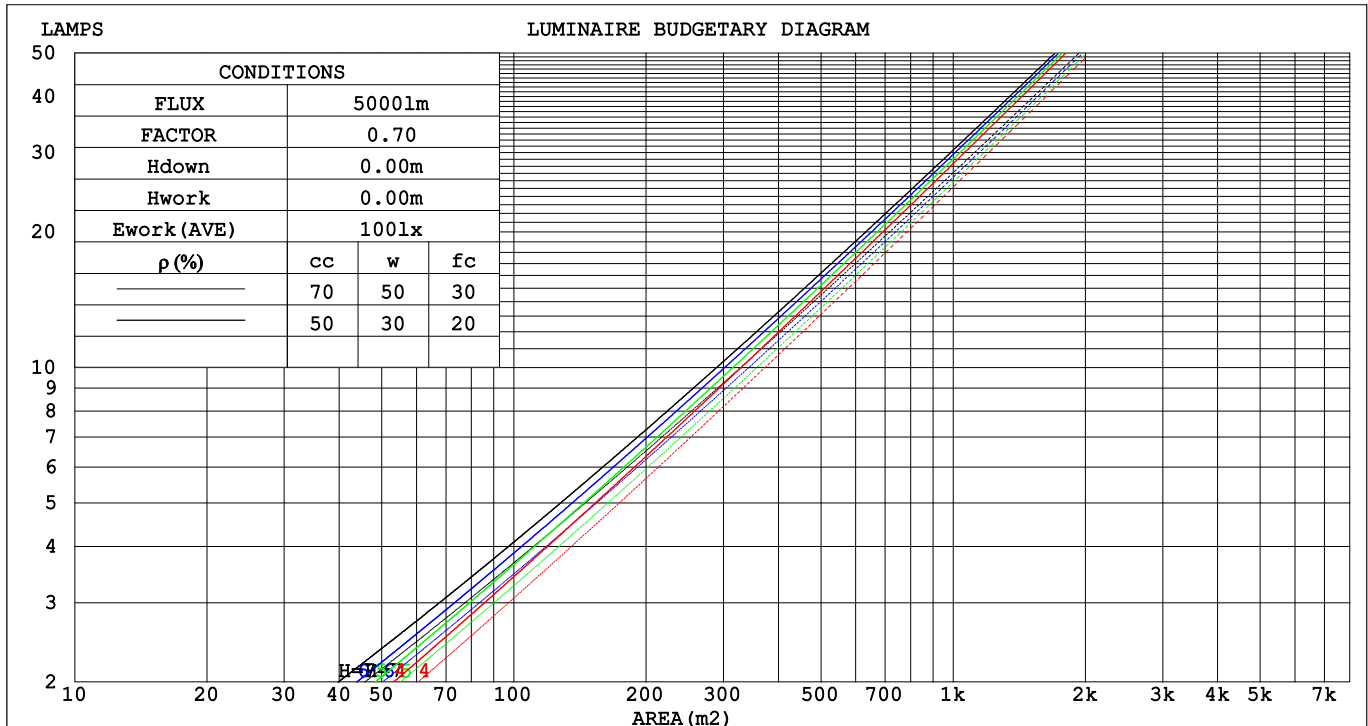
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 21 October 2020

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:230.00V I:0.0420A P:9.4000W PF:0.9780 Freq:50.00Hz Lamp Flux:651.082x1 lm		
NAME: SLDL280F-4030P-BGDD10	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:21 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:230.00V I:0.0420A P:9.4000W PF:0.9780 Freq:50.00Hz Lamp Flux:651.082x1 lm																	
NAME: SLDL280F-4030P-BGDD10									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	.170	.097	.031	.164	.093	.030	.151	.087	.028	.140	.081	.026	.129	.075	.024	
2.0	.162	.089	.027	.156	.086	.027	.146	.081	.025	.136	.076	.024	.127	.072	.023	
3.0	.153	.082	.024	.149	.080	.024	.140	.076	.023	.131	.072	.022	.124	.068	.021	
4.0	.145	.075	.022	.141	.074	.022	.133	.071	.021	.126	.068	.020	.120	.065	.020	
5.0	.138	.070	.020	.134	.069	.020	.128	.066	.020	.121	.064	.019	.116	.062	.019	
6.0	.131	.066	.019	.128	.065	.019	.122	.063	.018	.117	.061	.018	.112	.059	.017	
7.0	.125	.062	.018	.122	.061	.017	.117	.059	.017	.112	.058	.017	.108	.056	.016	
8.0	.119	.058	.016	.117	.058	.016	.112	.056	.016	.108	.055	.016	.104	.053	.016	
9.0	.114	.055	.015	.112	.055	.015	.108	.053	.015	.104	.052	.015	.100	.051	.015	
10.0	.109	.052	.015	.108	.052	.014	.104	.051	.014	.100	.050	.014	.097	.049	.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	.171	.157	.145	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016		
2.0	.155	.133	.114	.133	.114	.098	.091	.079	.069	.052	.046	.040	.017	.015	.013		
3.0	.142	.114	.091	.122	.098	.079	.084	.068	.055	.048	.040	.033	.016	.013	.011		
4.0	.131	.099	.074	.113	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009		
5.0	.122	.087	.061	.105	.075	.053	.072	.053	.037	.042	.031	.022	.013	.010	.007		
6.0	.114	.077	.051	.098	.067	.044	.068	.047	.031	.039	.028	.019	.013	.009	.006		
7.0	.108	.070	.043	.092	.060	.038	.064	.042	.027	.037	.025	.016	.012	.008	.005		
8.0	.102	.063	.037	.087	.055	.032	.061	.039	.023	.035	.023	.014	.011	.007	.005		
9.0	.096	.058	.032	.083	.050	.028	.058	.035	.020	.033	.021	.012	.011	.007	.004		
10.0	.092	.054	.028	.079	.047	.025	.055	.033	.018	.032	.019	.010	.010	.006	.003		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:21 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:230.00V I:0.0420A P:9.4000W PF:0.9780 Freq:50.00Hz Lamp Flux:651.082x1 lm											
NAME: SLDL280F-4030P-BGDD10					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		21.6	22.5	21.8	22.6	22.8	21.4	22.3	21.6	22.4	22.6
	3H	21.6	22.4	21.9	22.6	22.8	21.4	22.3	21.7	22.5	22.7
	4H	21.6	22.4	21.9	22.6	22.8	21.4	22.2	21.7	22.4	22.6
	6H	21.6	22.3	21.9	22.5	22.8	21.4	22.1	21.7	22.3	22.6
	8H	21.5	22.2	21.8	22.5	22.7	21.3	22.0	21.6	22.3	22.5
	12H	21.5	22.2	21.8	22.4	22.7	21.3	22.0	21.6	22.2	22.5
4H	2H	21.5	22.3	21.8	22.5	22.7	21.3	22.1	21.6	22.3	22.5
	3H	21.6	22.3	21.9	22.5	22.8	21.4	22.1	21.7	22.4	22.6
	4H	21.6	22.2	21.9	22.5	22.8	21.4	22.0	21.8	22.3	22.6
	6H	21.6	22.1	21.9	22.4	22.8	21.4	21.9	21.8	22.3	22.6
	8H	21.5	22.0	21.9	22.4	22.7	21.4	21.8	21.7	22.2	22.6
	12H	21.5	21.9	21.9	22.3	22.7	21.3	21.8	21.7	22.1	22.5
8H	4H	21.5	22.0	21.9	22.3	22.7	21.3	21.8	21.7	22.2	22.5
	6H	21.5	21.9	21.9	22.3	22.7	21.3	21.7	21.7	22.1	22.5
	8H	21.4	21.8	21.9	22.2	22.7	21.3	21.6	21.7	22.1	22.5
	12H	21.4	21.7	21.9	22.2	22.6	21.2	21.5	21.7	22.0	22.5
12H	4H	21.4	21.9	21.9	22.3	22.7	21.3	21.7	21.7	22.1	22.5
	6H	21.4	21.8	21.9	22.2	22.6	21.3	21.6	21.7	22.0	22.5
	8H	21.4	21.7	21.9	22.2	22.6	21.2	21.5	21.7	22.0	22.5
Variations with the observer position at spacings:											
S = 1.0H	+ 2.2 / - 4.1					+ 2.1 / - 4.0					
1.5H	+ 4.1 / - 3.7					+ 4.0 / - 3.4					
2.0H	+ 3.9 / - 1.6					+ 3.4 / - 1.3					

CIE Pub.117, 651.1 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -1.5$)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:21 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:230.00V I:0.0420A P:9.4000W PF:0.9780 Freq:50.00Hz Lamp Flux:651.082x1 lm		
NAME: SLDL280F-4030P-BGDD10	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

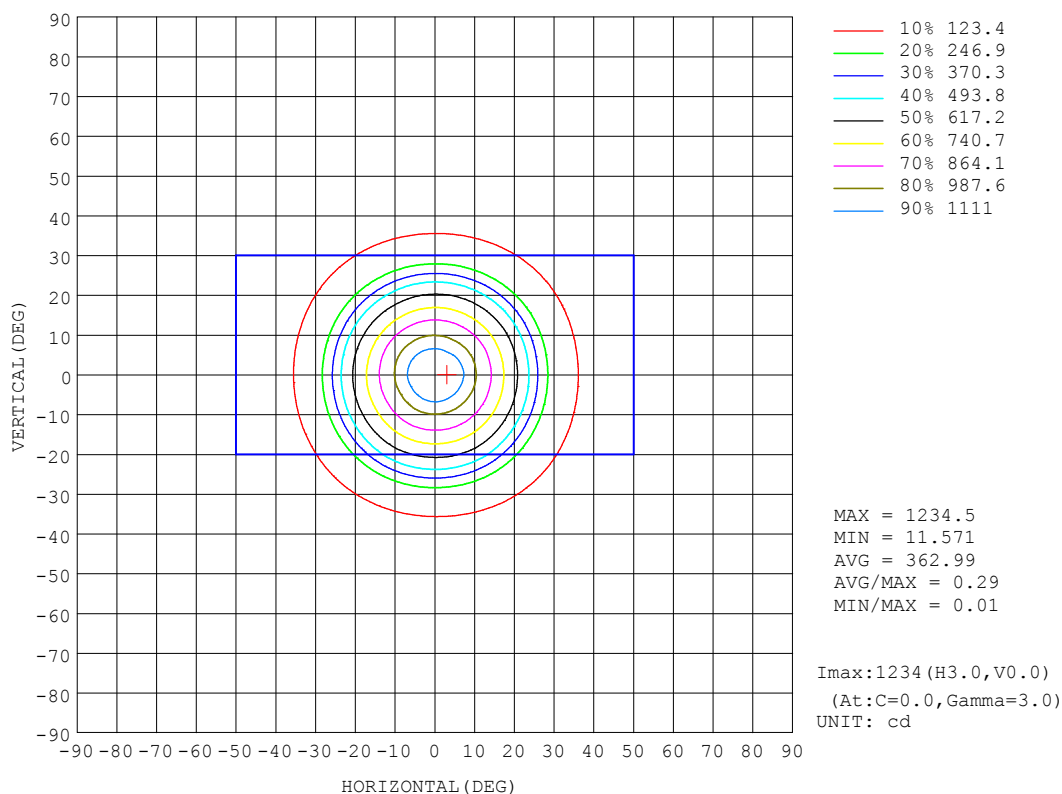
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	80	76	86	80	76	85	80	76	72
0.80	94	88	84	93	88	84	92	87	84	80
1.00	99	93	89	98	92	89	96	92	88	84
1.25	103	97	94	102	97	94	100	96	93	88
1.50	105	101	97	104	100	97	102	98	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	105	97
5.00	115	113	111	113	111	109	109	107	106	98
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:21 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:230.00V I:0.0420A P:9.4000W PF:0.9780 Freq:50.00Hz Lamp Flux:651.082x1 lm		
NAME: SLDL280F-4030P-BGDD10	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

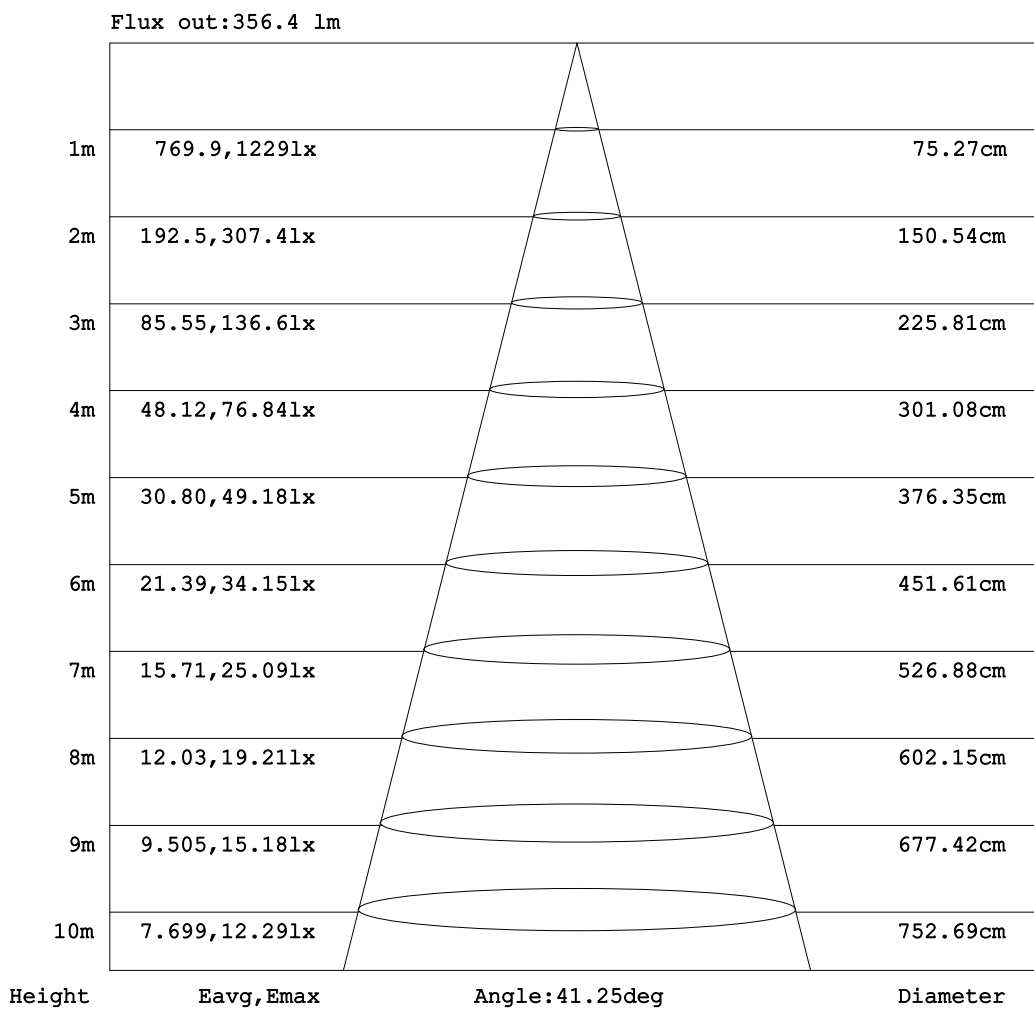


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:21 October 2020

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:230.00V I:0.0420A P:9.4000W PF:0.9780 Freq:50.00Hz Lamp Flux:651.082x1 lm		
NAME: SLDL280F-4030P-BGDD10	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



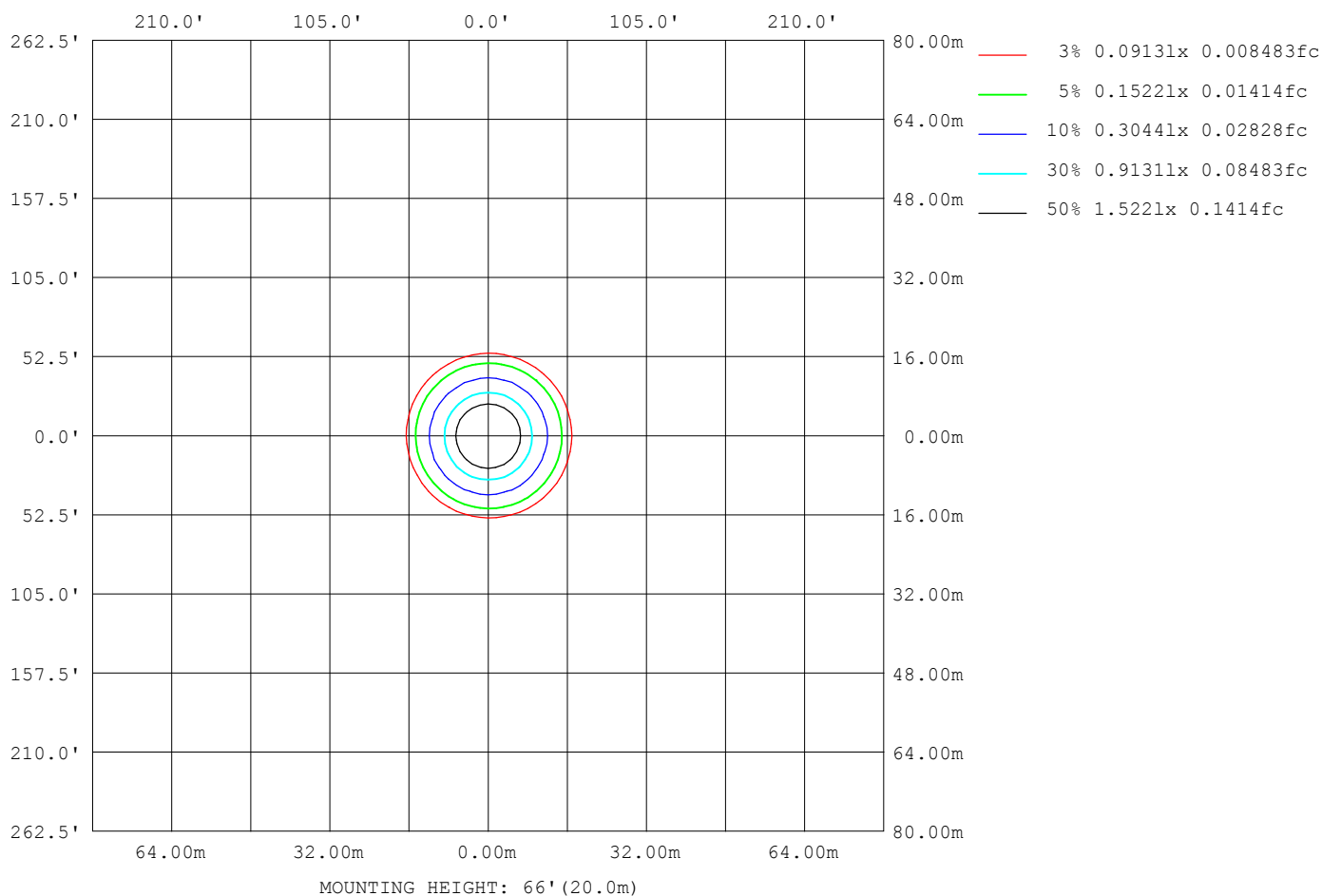
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:21 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:230.00V I:0.0420A P:9.4000W PF:0.9780 Freq:50.00Hz Lamp Flux:651.082x1 lm		
NAME: SLDL280F-4030P-BGDD10	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:21 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:230.00V I:0.0420A P:9.4000W PF:0.9780 Freq:50.00Hz Lamp Flux:651.082x1 lm		
NAME: SLDL280F-4030P-BGDD10	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

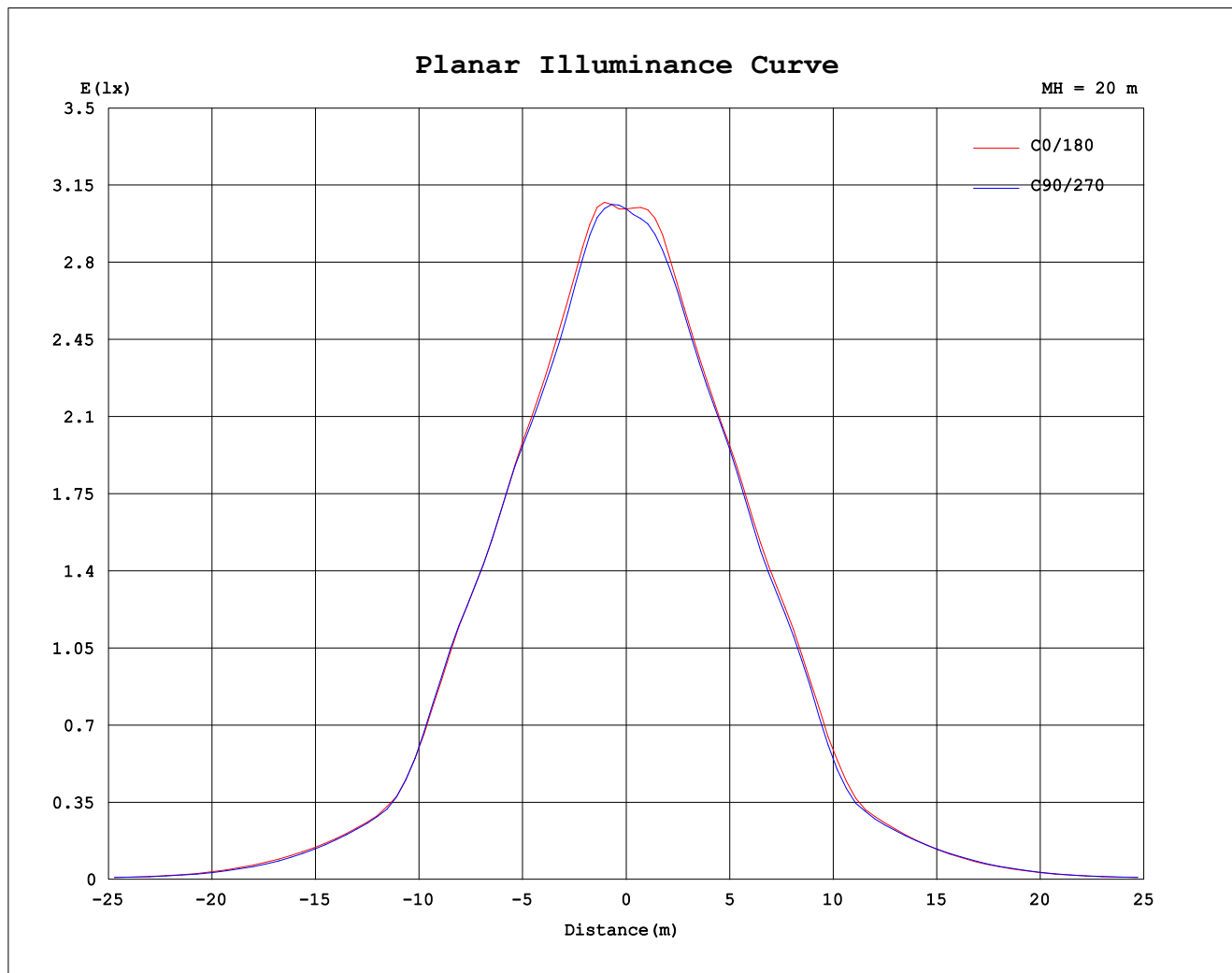
AvgL	cd/m2
L_0~180 (65) av	12695
L_0~180 (75) av	6569
L_0~180 (85) av	3111
L_90~270 (65) av	12238
L_90~270 (75) av	6378
L_90~270 (85) av	3024
L_45 (65) av	12379
L_45 (75) av	6441
L_45 (85) av	3043

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:21 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: 21 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:

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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:

```