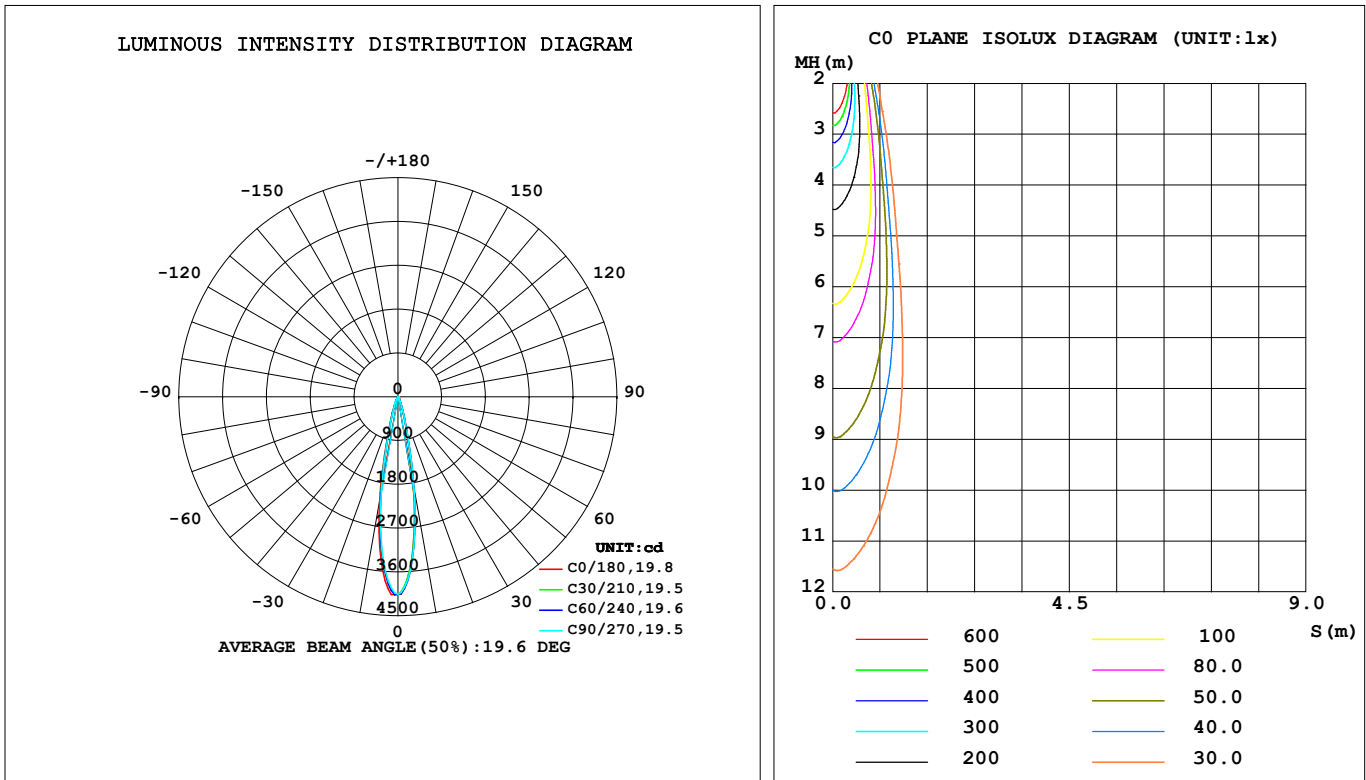


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.00V I:0.0350A P:7.7000W PF:0.9670 Freq:50.00Hz Lamp Flux:583.898x1 lm		
NAME: SLDL284F-2030P-WGDD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 75.83 lm/W
MODEL		I _{max} (cd)	4069	S/MH (C0/180)		0.34
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.33
RATED VOLTAGE (V)		TOTAL FLUX (lm)	583.90	η UP,DN (C0-180)		0.0,49.0
NOMINAL FLUX (lm)	583.898	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,51.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.00
TEST VOLTAGE (V)		η down (%)	100.0	CIBSE SHR MAX		1.00



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 10 August 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:

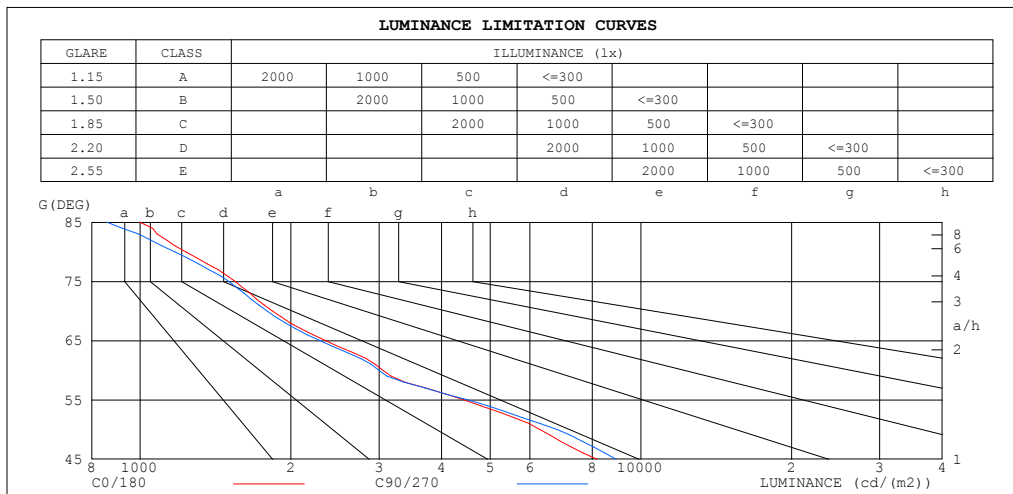
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1815	1888	1928	1975	2176	2041	1980	1927	0- 10	278.2	278.2	47.6,47.6
20	254.2	271.8	278.2	275.7	307.7	286.7	278.7	265.7	10- 20	217.9	496.1	85,85
30	54.10	55.19	56.87	58.60	64.05	56.09	54.18	53.81	20- 30	59.99	556.1	95.2,95.2
40	10.88	11.20	11.29	12.23	13.18	11.52	10.79	10.99	30- 40	16.67	572.7	98.1,98.1
50	5.146	5.402	5.463	5.595	5.969	5.598	5.408	5.204	40- 50	6.183	578.9	99.1,99.1
60	1.944	1.897	1.875	1.927	2.021	1.889	1.883	1.900	50- 60	3.045	582.0	99.7,99.7
70	0.8006	0.7728	0.7662	0.7918	0.8331	0.7846	0.8083	0.7944	60- 70	1.274	583.2	99.9,99.9
80	0.2729	0.2569	0.2547	0.2711	0.2867	0.2681	0.2767	0.2662	70- 80	0.5360	583.8	100,100
90	0	0	0	0.0007	0.0103	0.0054	0.0094	0	80- 90	0.1235	583.9	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:10 August 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:0.0350A P:7.7000W PF:0.9670 Freq:50.00Hz Lamp Flux:583.898x1 lm		
NAME: SLDL284F-2030P-WGDD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	999	858
80	1234	1174
75	1548	1504
70	1839	1792
65	2345	2286
60	3055	3000
55	4426	4504
50	6289	6800
45	8174	8940

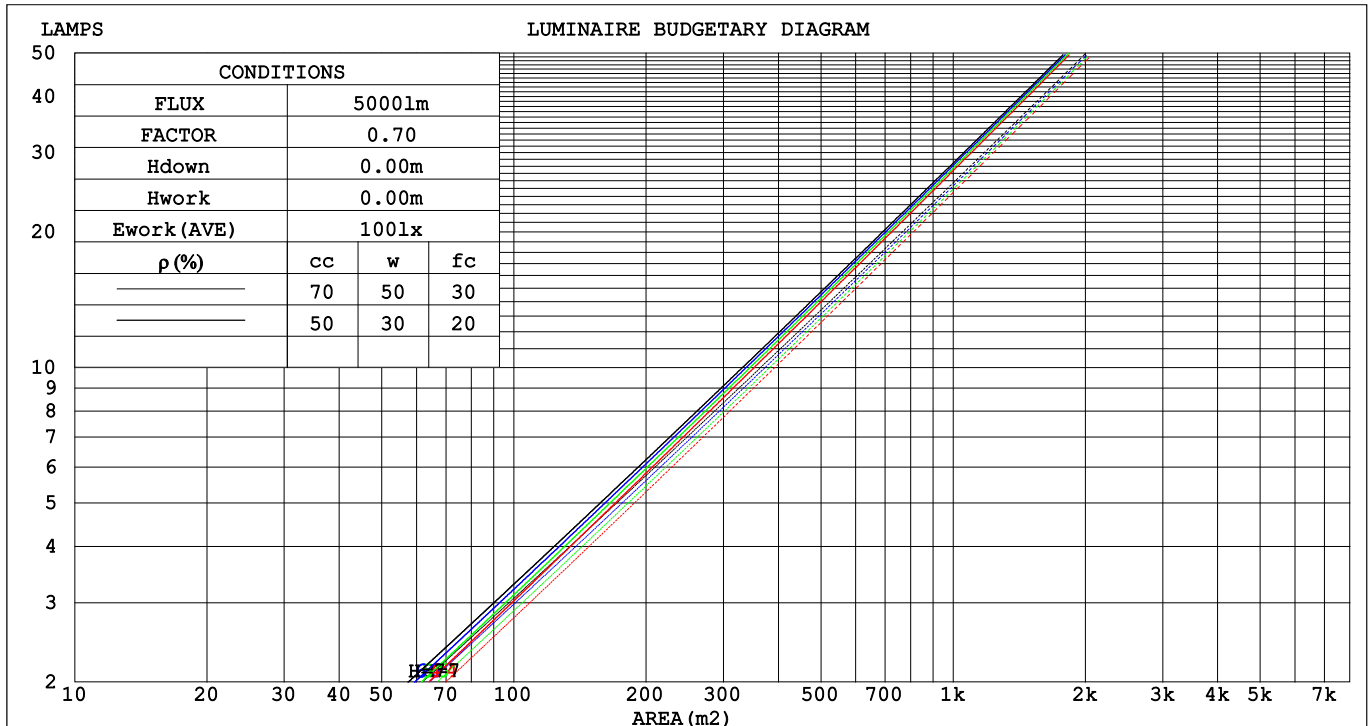
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 10 August 2020

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:0.0350A P:7.7000W PF:0.9670 Freq:50.00Hz Lamp Flux:583.898x1 lm		
NAME: SLDL284F-2030P-WGDD15	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	1.13	1.12	1.10	1.11	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.02	1.00	.00	.99	.97
2.0	1.08	1.06	1.03	1.07	1.04	1.02	1.04	1.02	.00	1.01	.99	.98	.98	.97	.96	.94
3.0	1.04	1.01	.98	1.03	.00	.98	1.01	.98	.96	.98	.96	.95	.96	.95	.93	.92
4.0	1.01	.97	.94	.00	.96	.94	.98	.95	.93	.96	.94	.92	.94	.92	.91	.90
5.0	.98	.94	.91	.97	.93	.91	.95	.92	.90	.94	.91	.89	.92	.90	.88	.87
6.0	.95	.91	.88	.94	.91	.88	.93	.90	.87	.92	.89	.87	.90	.88	.86	.85
7.0	.92	.88	.86	.92	.88	.86	.91	.87	.85	.90	.87	.85	.89	.86	.84	.83
8.0	.90	.86	.84	.89	.86	.83	.89	.85	.83	.88	.85	.83	.87	.84	.83	.82
9.0	.88	.84	.82	.87	.84	.82	.87	.84	.81	.86	.83	.81	.85	.83	.81	.80
10.0	.86	.82	.80	.86	.82	.80	.85	.82	.80	.84	.81	.79	.84	.81	.79	.78



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:10 August 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:0.0350A P:7.7000W PF:0.9670 Freq:50.00Hz Lamp Flux:583.898x1 lm																	
NAME: SLDL284F-2030P-WGDD15									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	.129	.073	.023	.123	.070	.022	.110	.063	.020	.099	.057	.018	.088	.051	.017	
2.0	.119	.065	.020	.113	.062	.019	.103	.057	.018	.094	.053	.016	.085	.048	.015	
3.0	.110	.059	.018	.106	.057	.017	.097	.053	.016	.089	.049	.015	.082	.045	.014	
4.0	.102	.053	.016	.099	.052	.015	.092	.049	.015	.085	.046	.014	.079	.043	.013	
5.0	.096	.049	.014	.093	.048	.014	.087	.045	.013	.081	.043	.013	.076	.041	.012	
6.0	.090	.045	.013	.088	.044	.013	.082	.042	.012	.078	.040	.012	.073	.039	.011	
7.0	.085	.042	.012	.083	.041	.012	.079	.040	.011	.074	.038	.011	.071	.037	.011	
8.0	.081	.040	.011	.079	.039	.011	.075	.038	.011	.071	.036	.010	.068	.035	.010	
9.0	.077	.037	.010	.075	.037	.010	.072	.036	.010	.069	.034	.010	.066	.033	.010	
10.0	.074	.035	.010	.072	.035	.010	.069	.034	.010	.066	.033	.009	.064	.032	.009	

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	.168	.158	.149	.144	.135	.128	.098	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.149	.133	.119	.128	.114	.103	.088	.079	.072	.050	.046	.042	.016	.015	.014	
3.0	.134	.113	.097	.115	.098	.084	.079	.068	.059	.045	.040	.035	.015	.013	.011	
4.0	.121	.098	.080	.104	.084	.070	.071	.059	.049	.041	.034	.029	.013	.011	.010	
5.0	.110	.085	.067	.094	.074	.058	.065	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.100	.075	.057	.086	.065	.050	.060	.046	.035	.035	.027	.021	.011	.009	.007	
7.0	.093	.067	.049	.080	.058	.042	.055	.041	.030	.032	.024	.018	.010	.008	.006	
8.0	.086	.060	.042	.074	.052	.037	.051	.036	.026	.030	.022	.016	.010	.007	.005	
9.0	.080	.054	.037	.069	.047	.032	.048	.033	.023	.028	.019	.014	.009	.006	.004	
10.0	.075	.049	.032	.064	.043	.028	.045	.030	.020	.026	.018	.012	.008	.006	.004	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:10 August 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:0.0350A P:7.7000W PF:0.9670 Freq:50.00Hz Lamp Flux:583.898x1 lm											
NAME: SLDL284F-2030P-WGDD15					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	10.9	11.5	11.1	11.7	11.8	11.3	11.9	11.5	12.0	12.2
	3H	11.0	11.6	11.3	11.8	11.9	11.4	11.9	11.6	12.1	12.3
	4H	11.0	11.6	11.3	11.8	12.0	11.4	11.9	11.6	12.1	12.3
	6H	11.0	11.5	11.3	11.8	12.0	11.3	11.8	11.6	12.1	12.3
	8H	11.0	11.5	11.3	11.7	12.0	11.3	11.8	11.6	12.0	12.3
	12H	11.0	11.4	11.3	11.7	12.0	11.3	11.7	11.6	12.0	12.3
4H	2H	10.9	11.4	11.2	11.6	11.9	11.2	11.8	11.5	12.0	12.2
	3H	11.0	11.5	11.3	11.8	12.0	11.3	11.8	11.6	12.1	12.3
	4H	11.1	11.5	11.4	11.8	12.1	11.4	11.8	11.7	12.1	12.4
	6H	11.1	11.5	11.4	11.8	12.1	11.4	11.7	11.7	12.1	12.4
	8H	11.1	11.4	11.4	11.8	12.1	11.3	11.7	11.7	12.0	12.4
	12H	11.0	11.4	11.4	11.7	12.1	11.3	11.6	11.7	12.0	12.4
8H	4H	11.0	11.3	11.4	11.7	12.1	11.3	11.6	11.7	12.0	12.3
	6H	11.0	11.3	11.4	11.7	12.1	11.3	11.6	11.7	12.0	12.4
	8H	11.0	11.3	11.4	11.7	12.1	11.3	11.5	11.7	11.9	12.4
	12H	11.0	11.2	11.4	11.6	12.1	11.2	11.5	11.7	11.9	12.4
12H	4H	10.9	11.3	11.3	11.6	12.0	11.2	11.6	11.6	11.9	12.3
	6H	11.0	11.2	11.4	11.6	12.1	11.2	11.5	11.7	11.9	12.4
	8H	11.0	11.2	11.4	11.6	12.1	11.2	11.5	11.7	11.9	12.4
Variations with the observer position at spacings:											
S = 1.0H		+ 1.6 / - 2.2					+ 1.7 / - 2.3				
1.5H		+ 2.1 / - 1.7					+ 2.2 / - 1.8				
2.0H		+ 2.6 / - 2.4					+ 2.8 / - 2.5				

CIE Pub.117, 583.9 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:10 August 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:0.0350A P:7.7000W PF:0.9670 Freq:50.00Hz Lamp Flux:583.898x1 lm		
NAME: SLDL284F-2030P-WGDD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

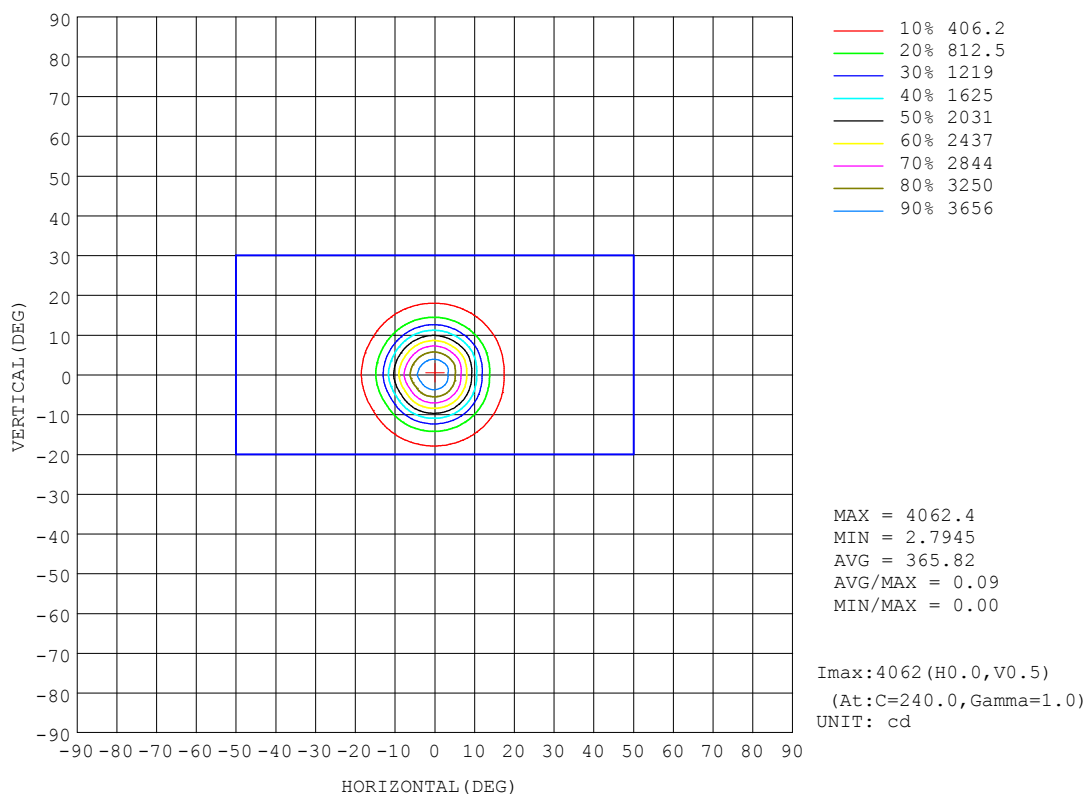
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	85	81	90	84	81	89	84	81	78
0.80	97	92	89	97	92	89	96	91	88	85
1.00	101	96	93	100	96	93	99	95	92	88
1.25	105	100	97	104	100	97	102	98	96	92
1.50	107	103	100	106	102	100	104	101	98	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	104	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	116	114	112	113	112	110	110	108	107	100
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:10 August 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:0.0350A P:7.7000W PF:0.9670 Freq:50.00Hz Lamp Flux:583.898x1 lm		
NAME: SLDL284F-2030P-WGDD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

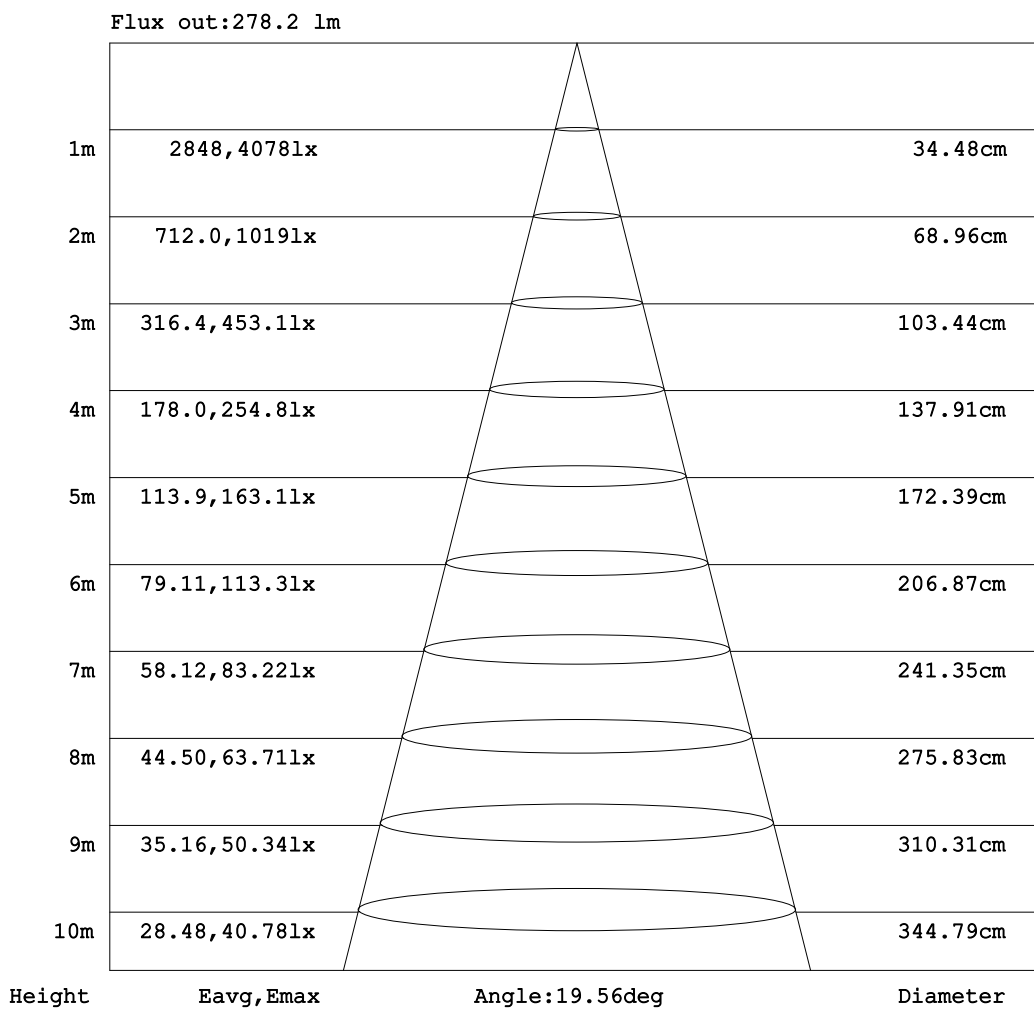


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 10 August 2020

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:0.0350A P:7.7000W PF:0.9670 Freq:50.00Hz Lamp Flux:583.898x1 lm		
NAME: SLDL284F-2030P-WGDD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



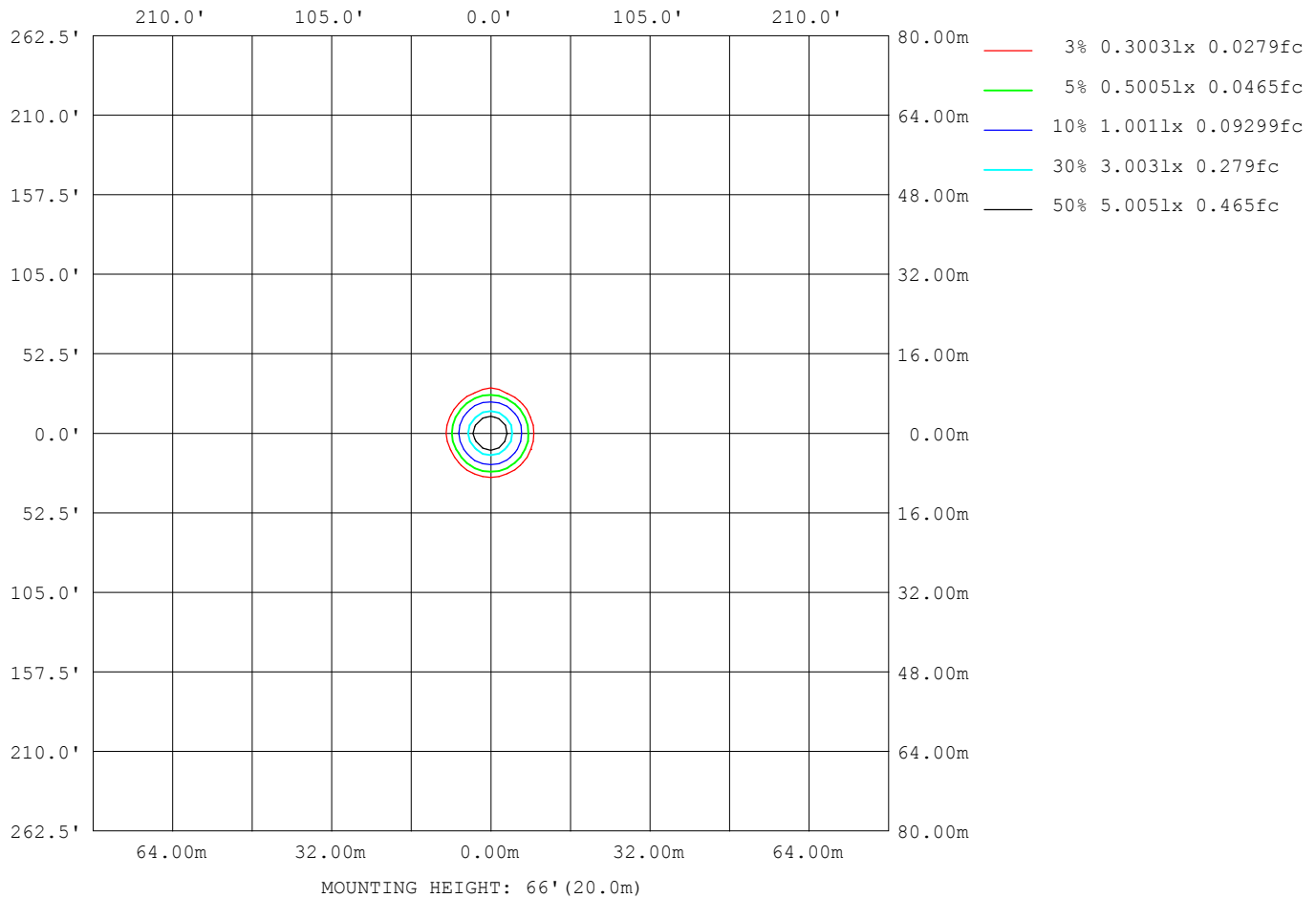
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:10 August 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:0.0350A P:7.7000W PF:0.9670 Freq:50.00Hz Lamp Flux:583.898x1 lm		
NAME: SLDL284F-2030P-WGDD15	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:10 August 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:0.0350A P:7.7000W PF:0.9670 Freq:50.00Hz Lamp Flux:583.898x1 lm		
NAME: SLDL284F-2030P-WGDD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

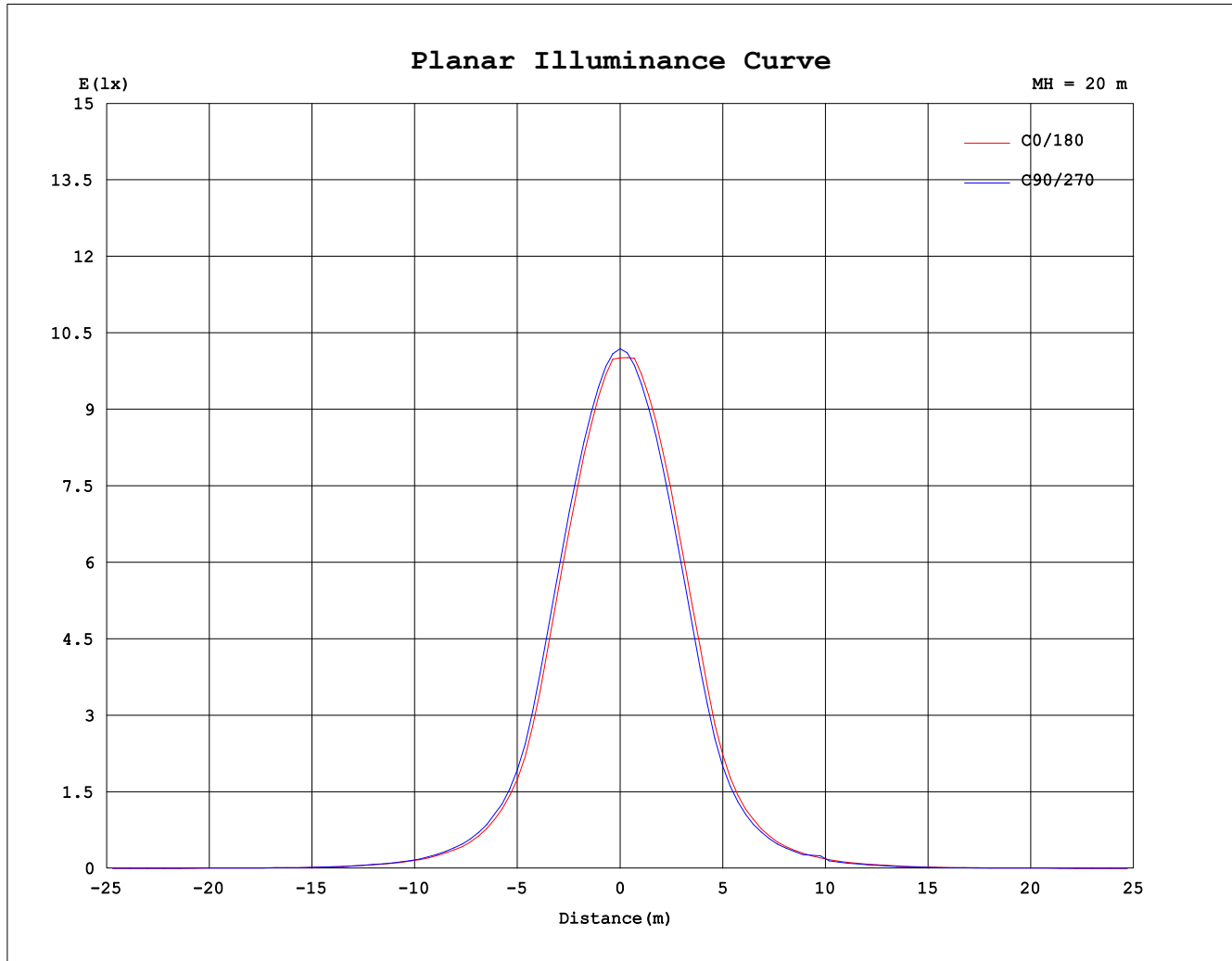
AvgL	cd/m2
L_0~180 (65) av	2442
L_0~180 (75) av	1593
L_0~180 (85) av	1048
L_90~270 (65) av	2309
L_90~270 (75) av	1533
L_90~270 (85) av	964
L_45 (65) av	2336
L_45 (75) av	1519
L_45 (85) av	935

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
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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:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
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γ Range: 0 - 90DEG
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 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:

```