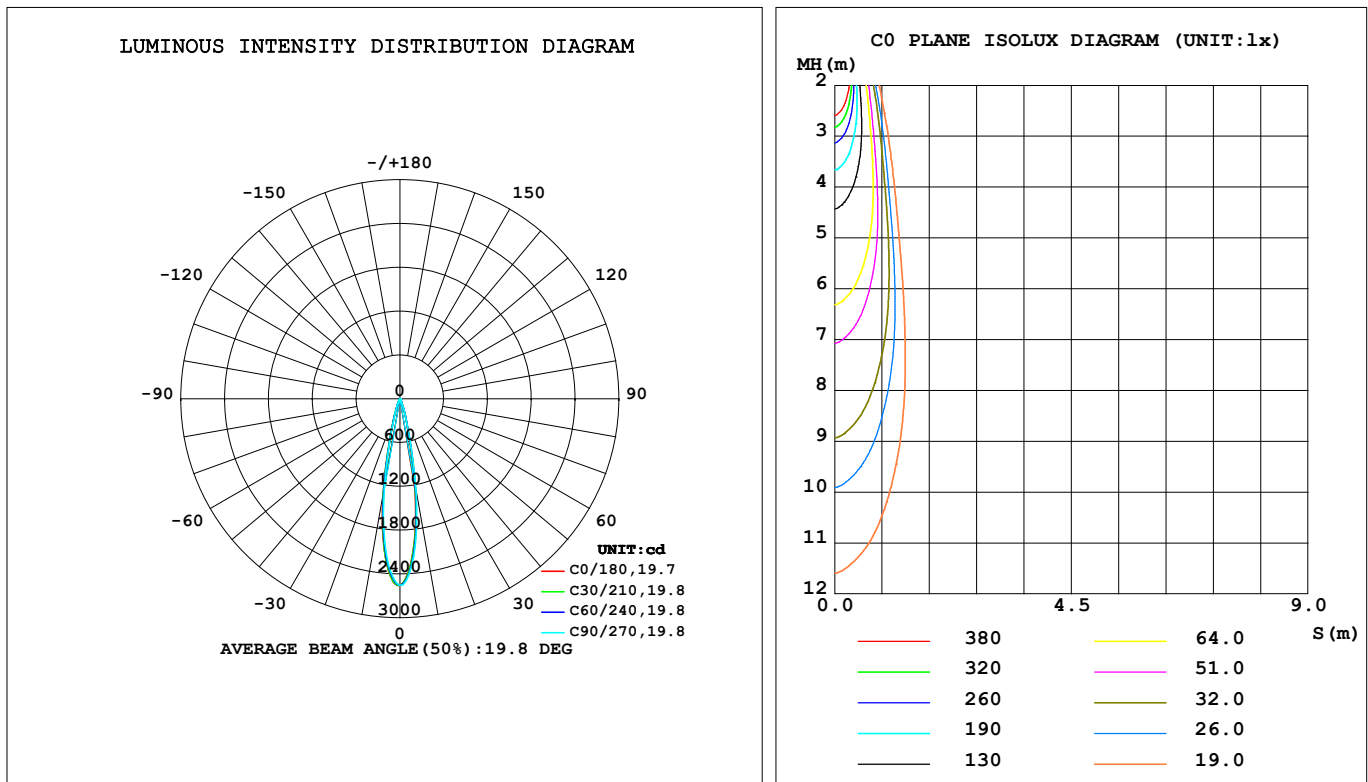


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.00V I:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:362.664x1 lm		
NAME: SLDL284F-2030P-BGDD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 80.59 lm/W
MODEL		I _{max} (cd)	2558	S/MH (C0/180)		0.34
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.33
RATED VOLTAGE (V)	230V	TOTAL FLUX (lm)	362.66	η UP,DN (C0-180)		0.0,49.6
NOMINAL FLUX (lm)	362.664	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,50.4
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:06 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:

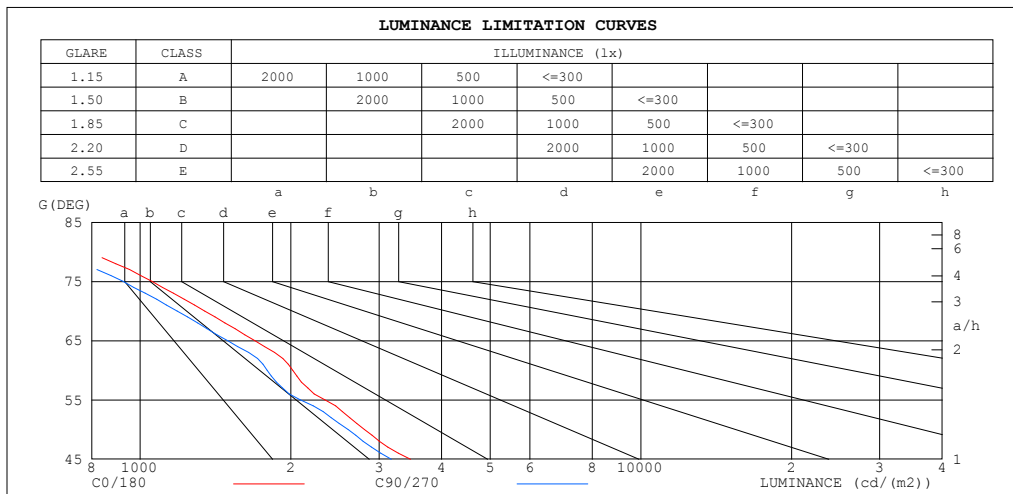
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1153	1198	1263	1315	1348	1314	1246	1178	0- 10	176.5	176.5	48.7,48.7
20	159.7	166.3	169.7	173.0	175.7	178.6	175.3	161.6	10- 20	137.4	313.8	86.5,86.5
30	31.81	30.60	30.13	31.31	32.62	32.35	31.54	31.04	20- 30	35.74	349.6	96.4,96.4
40	4.621	4.230	4.175	4.568	4.852	4.754	4.489	4.534	30- 40	7.935	357.5	98.6,98.6
50	2.266	2.103	2.098	2.184	2.280	2.320	2.272	2.236	40- 50	2.405	359.9	99.2,99.2
60	1.268	1.155	1.125	1.194	1.223	1.238	1.214	1.216	50- 60	1.469	361.4	99.6,99.6
70	0.5791	0.5184	0.5091	0.5473	0.5574	0.5675	0.5685	0.5501	60- 70	0.8553	362.2	99.9,99.9
80	0.1729	0.1486	0.1466	0.1654	0.1622	0.1653	0.1654	0.1539	70- 80	0.3506	362.6	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.0662	362.7	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:06 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:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:362.664x1 lm		
NAME: SLDL284F-2030P-BGDD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	560	409
80	792	673
75	1055	925
70	1347	1186
65	1692	1494
60	2017	1794
55	2339	2087
50	2804	2601
45	3470	3176

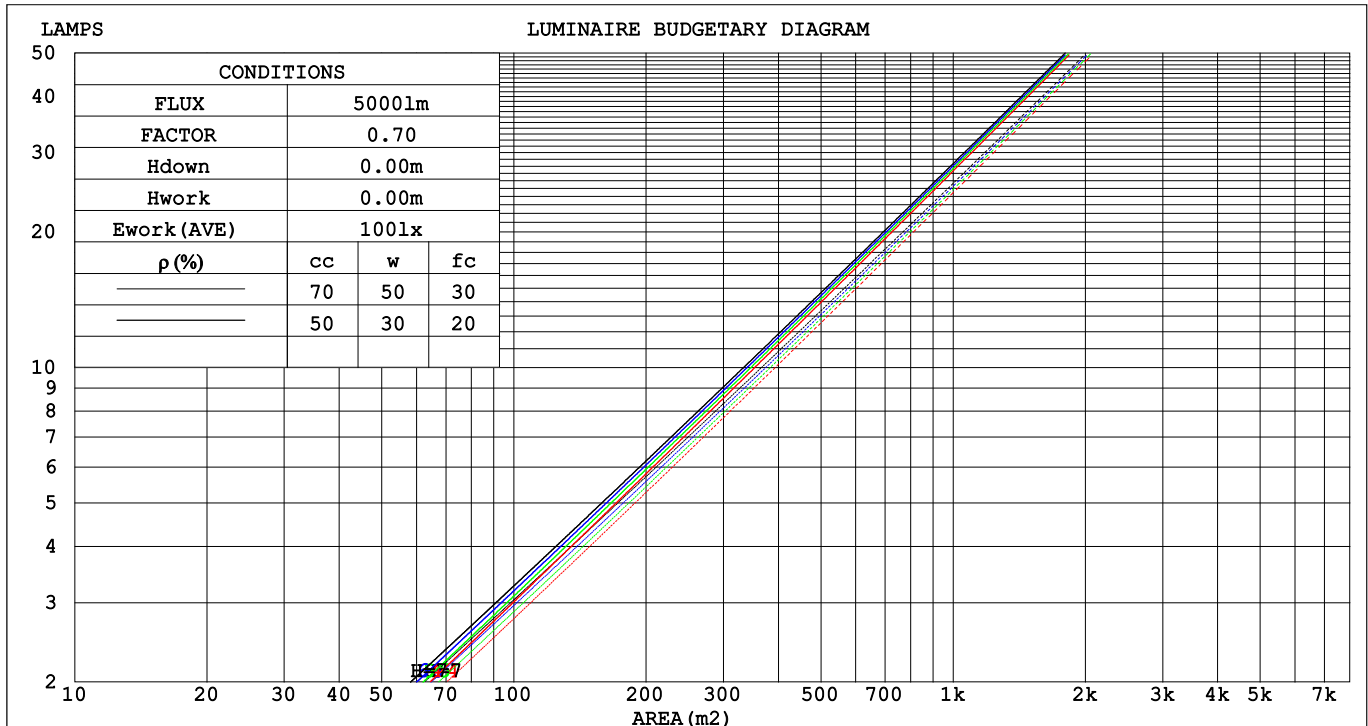
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 06 October 2020

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:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:362.664x1 lm		
NAME: SLDL284F-2030P-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			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	1.09	1.06	1.04	1.07	1.05	1.02	1.04	1.02	1.00	1.01	.00	.98	.98	.97	.96	.95
3.0	1.05	1.01	.99	1.03	1.00	.98	1.01	.98	.96	.99	.97	.95	.97	.95	.94	.92
4.0	1.01	.98	.95	1.00	.97	.94	.98	.95	.93	.96	.94	.92	.95	.93	.91	.90
5.0	.98	.94	.92	.97	.94	.91	.96	.93	.91	.94	.92	.90	.93	.91	.89	.88
6.0	.95	.92	.89	.95	.91	.89	.93	.90	.88	.92	.90	.88	.91	.89	.87	.86
7.0	.93	.89	.87	.92	.89	.86	.91	.88	.86	.90	.88	.86	.89	.87	.85	.84
8.0	.91	.87	.84	.90	.87	.84	.89	.86	.84	.88	.86	.84	.88	.85	.83	.83
9.0	.89	.85	.83	.88	.85	.82	.87	.84	.82	.87	.84	.82	.86	.84	.82	.81
10.0	.87	.83	.81	.86	.83	.81	.86	.83	.81	.85	.82	.80	.85	.82	.80	.79



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:06 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:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:362.664x1 lm																	
NAME: SLDL284F-2030P-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	.127	.072	.023	.121	.069	.022	.108	.062	.020	.097	.056	.018	.087	.050	.016	
2.0	.117	.064	.020	.111	.061	.019	.101	.056	.018	.092	.052	.016	.083	.047	.015	
3.0	.108	.057	.017	.104	.055	.017	.095	.052	.016	.087	.048	.015	.080	.044	.014	
4.0	.100	.052	.015	.097	.051	.015	.090	.048	.014	.083	.045	.013	.077	.042	.013	
5.0	.094	.048	.014	.091	.047	.014	.085	.044	.013	.079	.042	.012	.074	.040	.012	
6.0	.088	.044	.013	.086	.043	.012	.081	.041	.012	.076	.039	.012	.071	.038	.011	
7.0	.084	.041	.012	.081	.040	.012	.077	.039	.011	.073	.037	.011	.069	.036	.011	
8.0	.079	.039	.011	.077	.038	.011	.073	.037	.010	.070	.035	.010	.066	.034	.010	
9.0	.075	.036	.010	.074	.036	.010	.070	.035	.010	.067	.034	.010	.064	.033	.009	
10.0	.072	.035	.010	.070	.034	.009	.067	.033	.009	.065	.032	.009	.062	.031	.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	.143	.135	.128	.098	.093	.089	.056	.054	.052	.018	.017	.017	
2.0	.149	.133	.119	.128	.114	.103	.087	.079	.072	.050	.046	.042	.016	.015	.014	
3.0	.133	.113	.097	.114	.098	.084	.078	.068	.059	.045	.040	.035	.015	.013	.011	
4.0	.120	.098	.080	.103	.084	.070	.071	.059	.049	.041	.034	.029	.013	.011	.010	
5.0	.109	.085	.067	.094	.074	.059	.065	.051	.041	.037	.030	.025	.012	.010	.008	
6.0	.100	.075	.057	.086	.065	.050	.059	.045	.035	.034	.027	.021	.011	.009	.007	
7.0	.092	.067	.049	.079	.058	.043	.055	.040	.030	.032	.024	.018	.010	.008	.006	
8.0	.085	.060	.042	.073	.052	.037	.051	.036	.026	.029	.021	.016	.010	.007	.005	
9.0	.079	.054	.037	.068	.047	.032	.047	.033	.023	.028	.019	.014	.009	.006	.005	
10.0	.074	.049	.032	.064	.043	.028	.044	.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:06 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:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:362.664x1 lm											
NAME: SLDL284F-2030P-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	9.3	9.9	9.5	10.0	10.2	9.0	9.6	9.2	9.7	9.9
	3H	9.6	10.2	9.8	10.3	10.5	9.3	9.8	9.5	10.0	10.2
	4H	9.7	10.2	10.0	10.4	10.6	9.4	9.9	9.6	10.1	10.3
	6H	9.7	10.2	10.0	10.4	10.7	9.4	9.9	9.6	10.1	10.3
	8H	9.7	10.2	10.0	10.4	10.7	9.3	9.8	9.6	10.1	10.3
	12H	9.7	10.2	10.0	10.4	10.7	9.3	9.8	9.6	10.0	10.3
4H	2H	9.4	9.9	9.6	10.1	10.3	9.1	9.6	9.3	9.8	10.0
	3H	9.8	10.2	10.1	10.5	10.7	9.5	9.9	9.8	10.2	10.4
	4H	9.9	10.3	10.2	10.6	10.9	9.6	10.0	9.9	10.3	10.6
	6H	9.9	10.3	10.3	10.6	11.0	9.6	10.0	10.0	10.3	10.6
	8H	9.9	10.3	10.3	10.6	11.0	9.6	9.9	10.0	10.3	10.6
	12H	9.9	10.2	10.3	10.6	11.0	9.6	9.9	10.0	10.2	10.6
8H	4H	9.8	10.2	10.2	10.5	10.9	9.5	9.9	9.9	10.2	10.6
	6H	9.9	10.2	10.3	10.6	11.0	9.6	9.9	10.0	10.3	10.7
	8H	9.9	10.2	10.3	10.6	11.0	9.6	9.9	10.0	10.3	10.7
	12H	9.9	10.1	10.3	10.6	11.0	9.6	9.8	10.0	10.2	10.7
12H	4H	9.8	10.1	10.2	10.5	10.9	9.5	9.8	9.9	10.2	10.6
	6H	9.9	10.1	10.3	10.5	11.0	9.6	9.8	10.0	10.2	10.7
	8H	9.9	10.1	10.3	10.5	11.0	9.6	9.8	10.0	10.2	10.7
Variations with the observer position at spacings:											
S = 1.0H		+ 1.2 / - 1.1					+ 1.1 / - 1.2				
1.5H		+ 2.1 / - 0.9					+ 1.8 / - 0.8				
2.0H		+ 1.3 / - 1.0					+ 1.2 / - 0.8				

CIE Pub.117, 362.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.5)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:06 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:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:362.664x1 lm		
NAME: SLDL284F-2030P-BGDD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

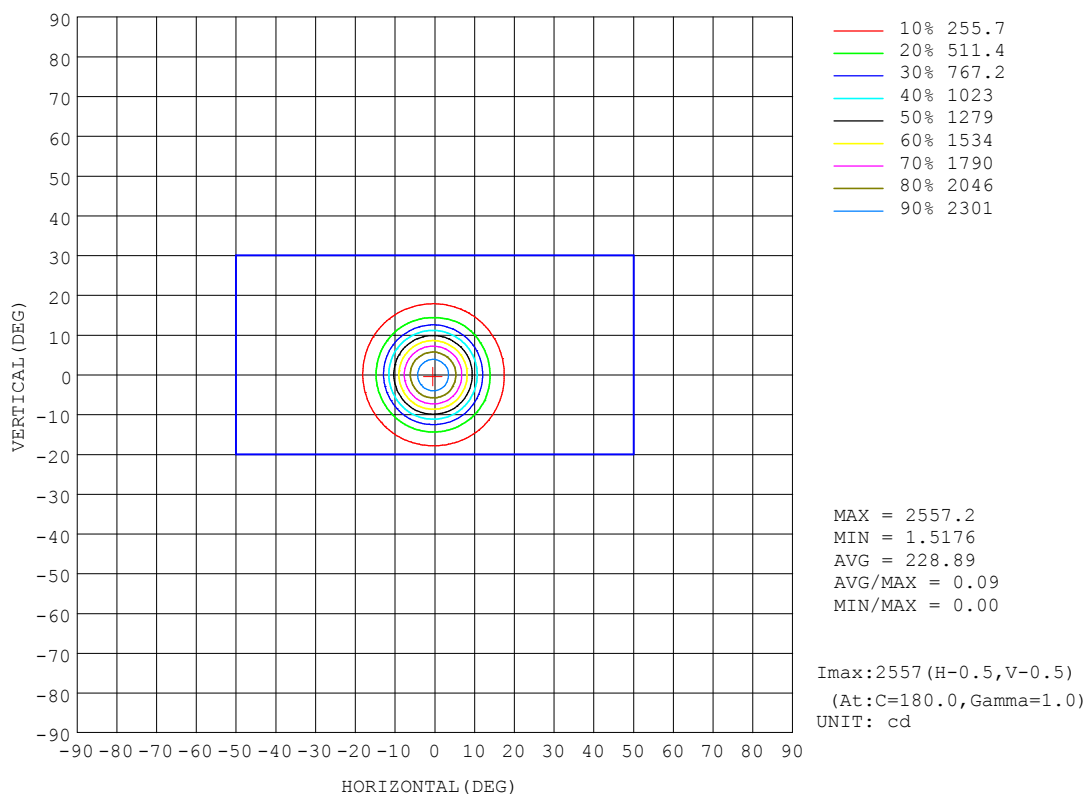
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	90	85	81	89	84	81	78
0.80	98	92	89	97	92	89	96	92	89	85
1.00	101	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	107	103	100	106	102	100	104	101	99	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	106	104	107	104	102	96
3.00	113	109	107	111	108	106	107	105	104	97
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	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:06 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:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:362.664x1 lm		
NAME: SLDL284F-2030P-BGDD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

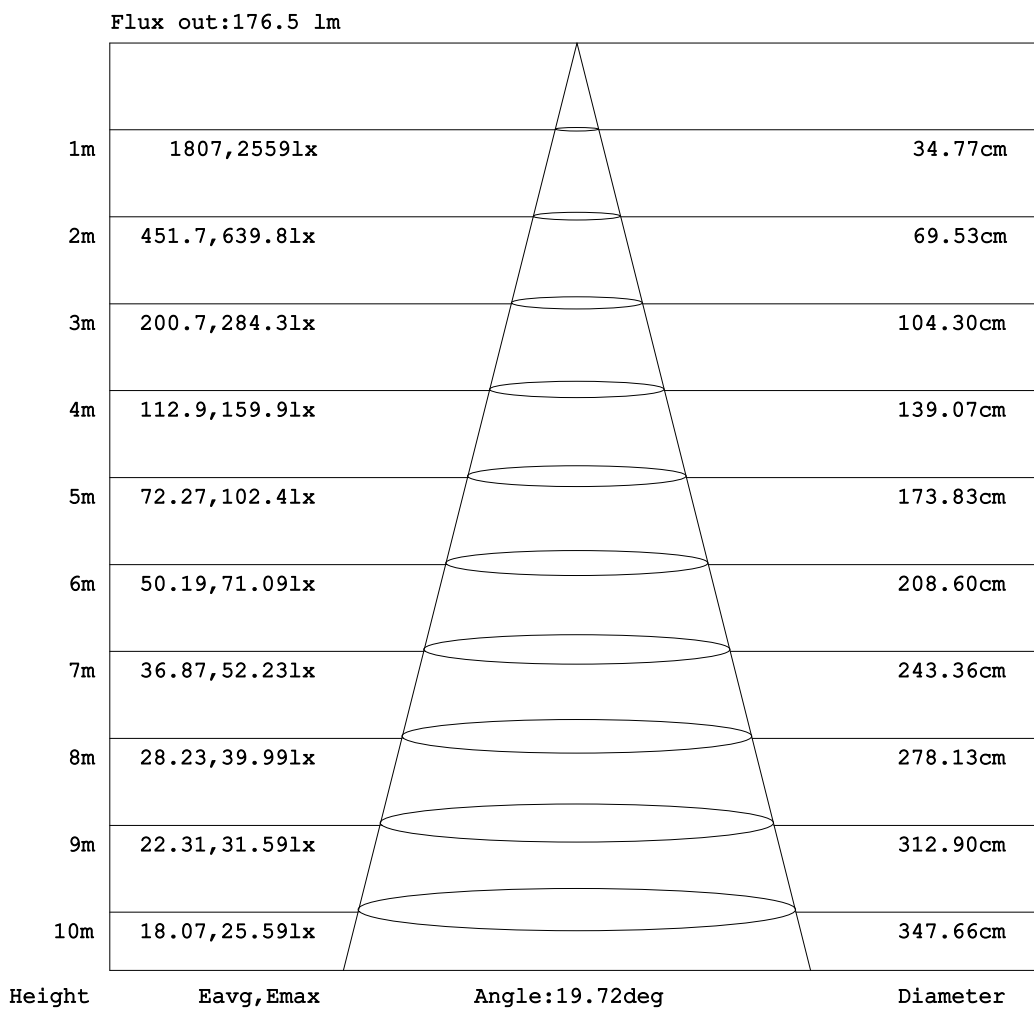


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:06 October 2020

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:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:362.664x1 lm		
NAME: SLDL284F-2030P-BGDD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



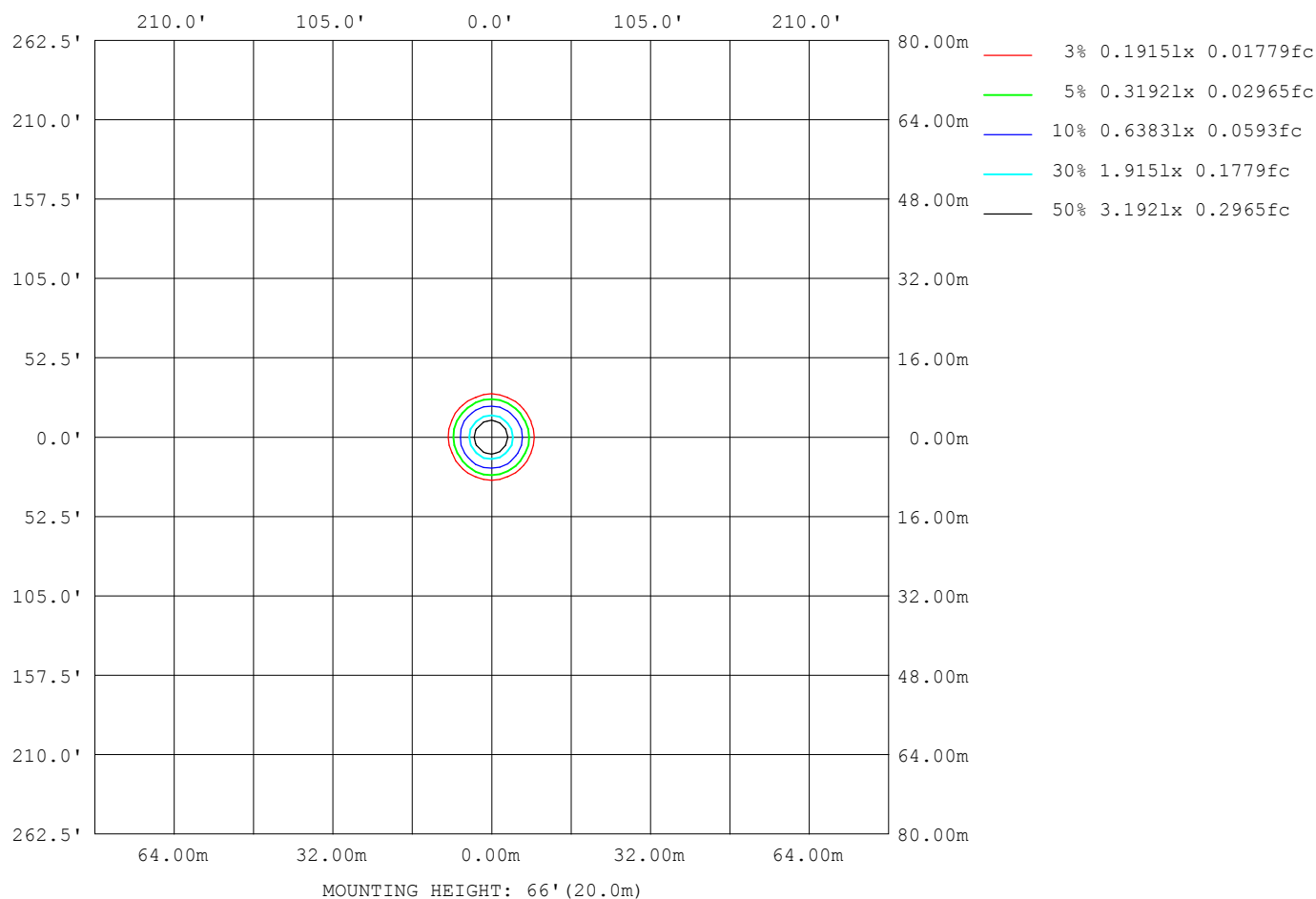
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:06 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:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:362.664x1 lm		
NAME: SLDL284F-2030P-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:06 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:0.0220A P:4.5000W PF:0.9190 Freq:50.00Hz Lamp Flux:362.664x1 lm		
NAME: SLDL284F-2030P-BGDD08	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

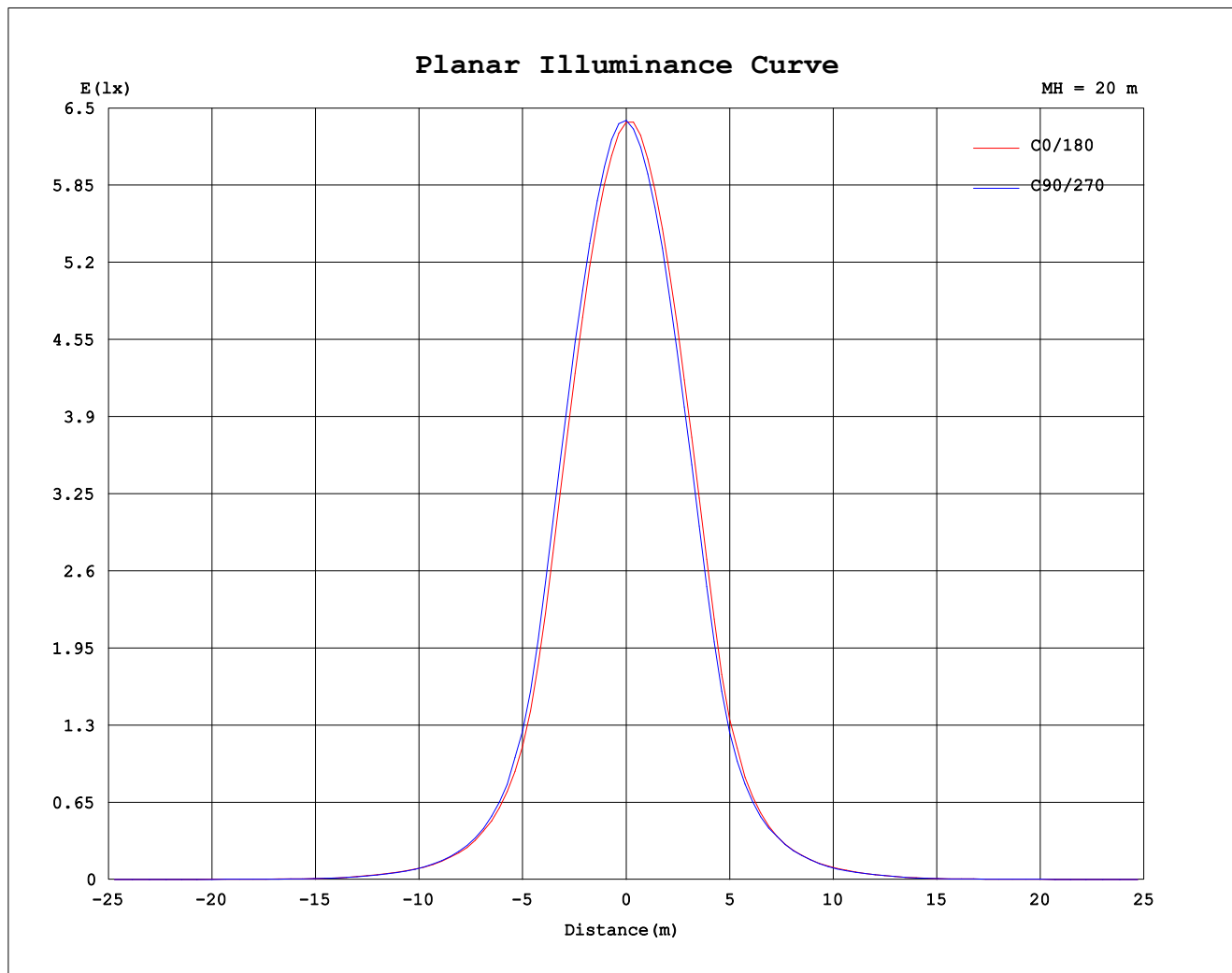
AvgL	cd/m2
L_0~180 (65) av	1664
L_0~180 (75) av	1036
L_0~180 (85) av	521
L_90~270 (65) av	1571
L_90~270 (75) av	973
L_90~270 (85) av	474
L_45 (65) av	1604
L_45 (75) av	982
L_45 (85) av	472

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:06 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: 06 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:

```