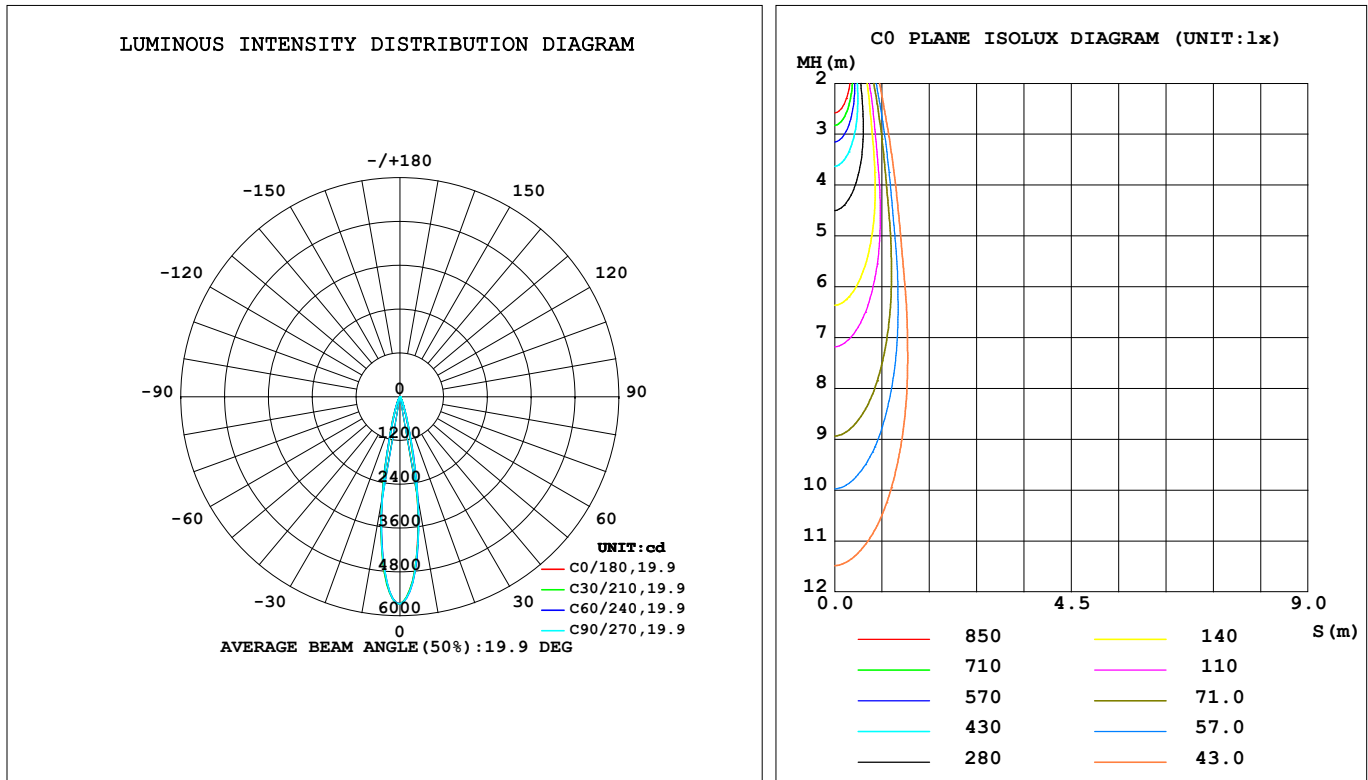


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.00V I:0.0510A P:11.400W PF:0.9800 Freq:50.00Hz Lamp Flux:816.66lx1 lm		
NAME: SLDL284F-2030P-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 71.64 lm/W
MODEL		I _{max} (cd)	5673	S/MH (C0/180)		0.33
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.33
RATED VOLTAGE (V)	230V	TOTAL FLUX (lm)	816.66	η UP,DN (C0-180)		0.0,50.2
NOMINAL FLUX (lm)	816.661	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,49.8
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: 02 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:

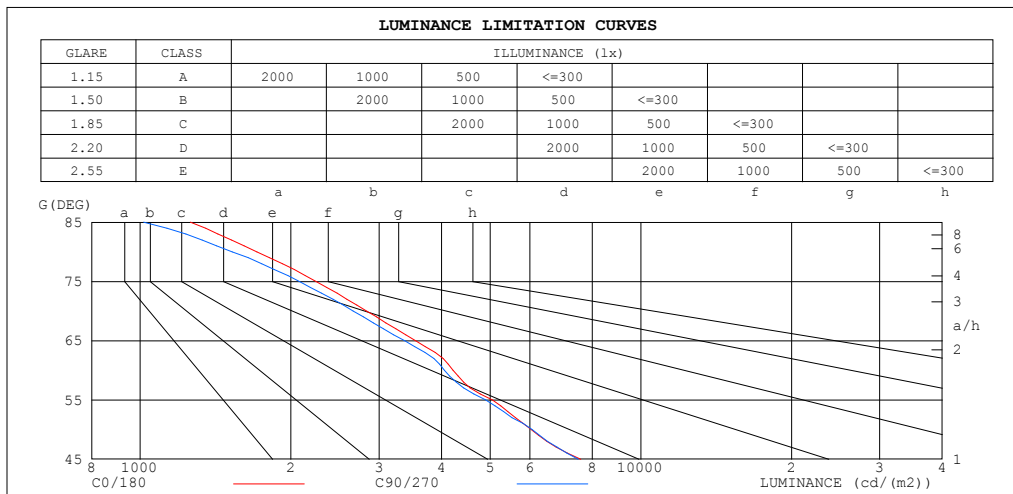
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2765	2805	2824	2831	2856	2835	2801	2765	0- 10	393.1	393.1	48.1,48.1
20	368.5	388.1	405.0	399.9	398.8	391.9	381.9	364.4	10- 20	311.0	704.1	86.2,86.2
30	70.36	72.23	74.72	77.31	79.24	73.39	69.39	68.18	20- 30	82.18	786.3	96.3,96.3
40	10.21	10.19	10.07	10.67	10.81	9.898	9.496	9.743	30- 40	19.14	805.4	98.6,98.6
50	4.873	5.000	4.901	4.989	5.011	4.718	4.646	4.617	40- 50	5.309	810.7	99.3,99.3
60	2.647	2.664	2.544	2.644	2.668	2.499	2.501	2.487	50- 60	3.200	813.9	99.7,99.7
70	1.218	1.222	1.145	1.209	1.239	1.165	1.175	1.141	60- 70	1.835	815.7	99.9,99.9
80	0.3730	0.3614	0.3332	0.3694	0.3754	0.3551	0.3638	0.3417	70- 80	0.7693	816.5	100,100
90	0	0	0	0	0.0029	0	0	0	80- 90	0.1525	816.7	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:02 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:0.0510A P:11.400W PF:0.9800 Freq:50.00Hz Lamp Flux:816.66lx1 lm		
NAME: SLDL284F-2030P-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1259	1016
80	1710	1528
75	2242	2077
70	2835	2666
65	3543	3371
60	4215	4051
55	5048	4891
50	6036	6070
45	7590	7503

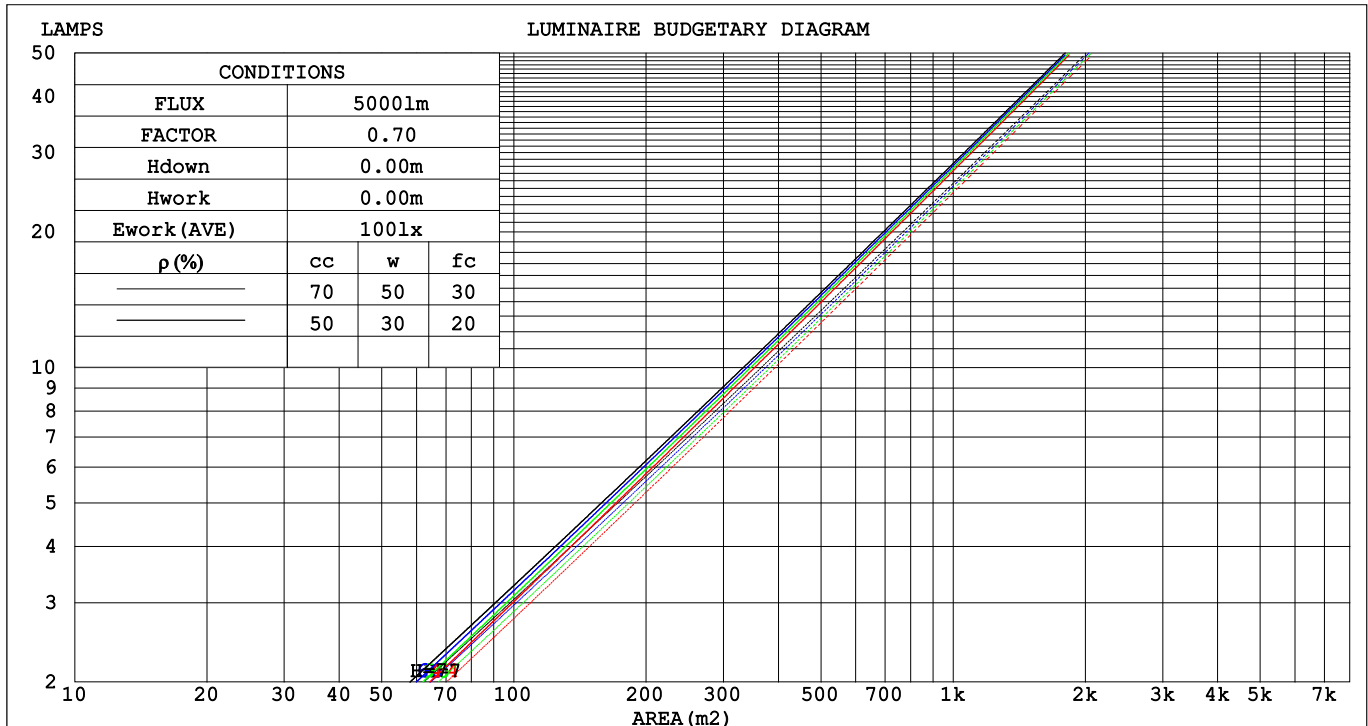
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 02 October 2020

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:0.0510A P:11.400W PF:0.9800 Freq:50.00Hz Lamp Flux:816.66lx1 lm		
NAME: SLDL284F-2030P-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			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	1.00
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	1.04	1.02	1.04	1.02	1.00	1.01	.99	.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	.97	.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	.90	.94	.92	.90	.93	.91	.89	.88
6.0	.95	.91	.89	.95	.91	.89	.93	.90	.88	.92	.89	.87	.91	.89	.87	.86
7.0	.93	.89	.86	.92	.89	.86	.91	.88	.86	.90	.87	.85	.89	.87	.85	.84
8.0	.90	.87	.84	.90	.87	.84	.89	.86	.84	.88	.86	.84	.88	.85	.83	.82
9.0	.88	.85	.82	.88	.85	.82	.87	.84	.82	.87	.84	.82	.86	.83	.82	.81
10.0	.86	.83	.81	.86	.83	.81	.86	.82	.80	.85	.82	.80	.84	.82	.80	.79



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:02 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:0.0510A P:11.400W PF:0.9800 Freq:50.00Hz Lamp Flux:816.66lx1 lm																	
NAME: SLDL284F-2030P-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	.128	.073	.023	.121	.069	.022	.109	.062	.020	.097	.056	.018	.087	.050	.016	
2.0	.117	.064	.020	.112	.062	.019	.102	.057	.018	.092	.052	.016	.084	.047	.015	
3.0	.108	.058	.017	.104	.056	.017	.096	.052	.016	.088	.048	.015	.081	.045	.014	
4.0	.101	.052	.015	.097	.051	.015	.090	.048	.014	.084	.045	.014	.078	.042	.013	
5.0	.094	.048	.014	.091	.047	.014	.085	.044	.013	.080	.042	.013	.075	.040	.012	
6.0	.089	.045	.013	.086	.044	.013	.081	.042	.012	.076	.040	.012	.072	.038	.011	
7.0	.084	.042	.012	.082	.041	.012	.077	.039	.011	.073	.037	.011	.069	.036	.011	
8.0	.080	.039	.011	.078	.038	.011	.074	.037	.011	.070	.036	.010	.067	.034	.010	
9.0	.076	.037	.010	.074	.036	.010	.071	.035	.010	.068	.034	.010	.065	.033	.009	
10.0	.072	.035	.010	.071	.034	.010	.068	.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	.051	.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	.041	.030	.032	.024	.018	.010	.008	.006		
8.0	.085	.060	.042	.073	.052	.037	.051	.036	.026	.030	.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:02 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:0.0510A P:11.400W PF:0.9800 Freq:50.00Hz Lamp Flux:816.66lx1 lm											
NAME: SLDL284F-2030P-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		9.6	10.2	9.8	10.3	10.4	9.8	10.4	10.0	10.5	10.7
3H		9.8	10.4	10.1	10.6	10.7	10.0	10.6	10.2	10.7	10.9
4H		9.9	10.4	10.2	10.6	10.8	10.1	10.6	10.3	10.8	11.0
6H		9.9	10.4	10.2	10.6	10.9	10.1	10.5	10.3	10.8	11.0
8H		9.9	10.4	10.2	10.6	10.9	10.0	10.5	10.3	10.8	11.0
12H		9.9	10.3	10.2	10.6	10.9	10.0	10.5	10.3	10.7	11.0
4H 2H		9.6	10.2	9.9	10.4	10.6	9.8	10.4	10.1	10.6	10.8
3H		10.0	10.4	10.3	10.7	11.0	10.1	10.6	10.4	10.9	11.1
4H		10.1	10.5	10.4	10.8	11.1	10.2	10.6	10.6	10.9	11.2
6H		10.1	10.5	10.5	10.8	11.2	10.2	10.6	10.6	10.9	11.3
8H		10.1	10.5	10.5	10.8	11.2	10.2	10.6	10.6	10.9	11.3
12H		10.1	10.4	10.5	10.8	11.2	10.2	10.5	10.6	10.9	11.3
8H 4H		10.0	10.4	10.4	10.7	11.1	10.2	10.5	10.6	10.9	11.2
6H		10.1	10.4	10.5	10.8	11.2	10.2	10.5	10.6	10.9	11.3
8H		10.1	10.4	10.5	10.8	11.2	10.2	10.5	10.7	10.9	11.3
12H		10.1	10.3	10.5	10.7	11.2	10.2	10.4	10.7	10.9	11.3
12H 4H		10.0	10.3	10.4	10.7	11.1	10.1	10.4	10.5	10.8	11.2
6H		10.1	10.3	10.5	10.7	11.2	10.2	10.4	10.6	10.9	11.3
8H		10.1	10.3	10.5	10.7	11.2	10.2	10.4	10.6	10.8	11.3
Variations with the observer position at spacings:											
S = 1.0H		+ 1.3 / - 1.3					+ 1.5 / - 1.4				
1.5H		+ 2.2 / - 0.8					+ 2.4 / - 0.9				
2.0H		+ 1.3 / - 0.9					+ 1.3 / - 1.0				

CIE Pub.117, 816.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.7)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:02 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:0.0510A P:11.400W PF:0.9800 Freq:50.00Hz Lamp Flux:816.66lx1 lm		
NAME: SLDL284F-2030P-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

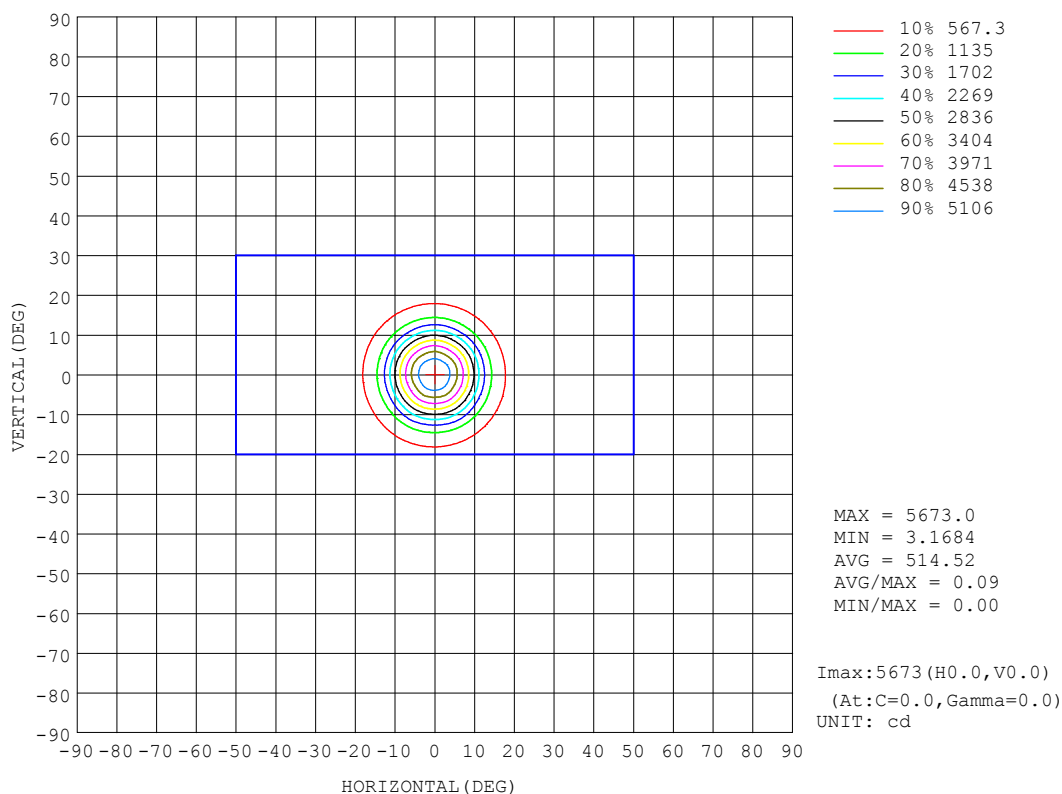
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	90	85	81	90	84	81	78
0.80	98	92	89	97	92	89	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	97
3.00	113	109	107	111	108	106	108	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:02 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:0.0510A P:11.400W PF:0.9800 Freq:50.00Hz Lamp Flux:816.66lx1 lm		
NAME: SLDL284F-2030P-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

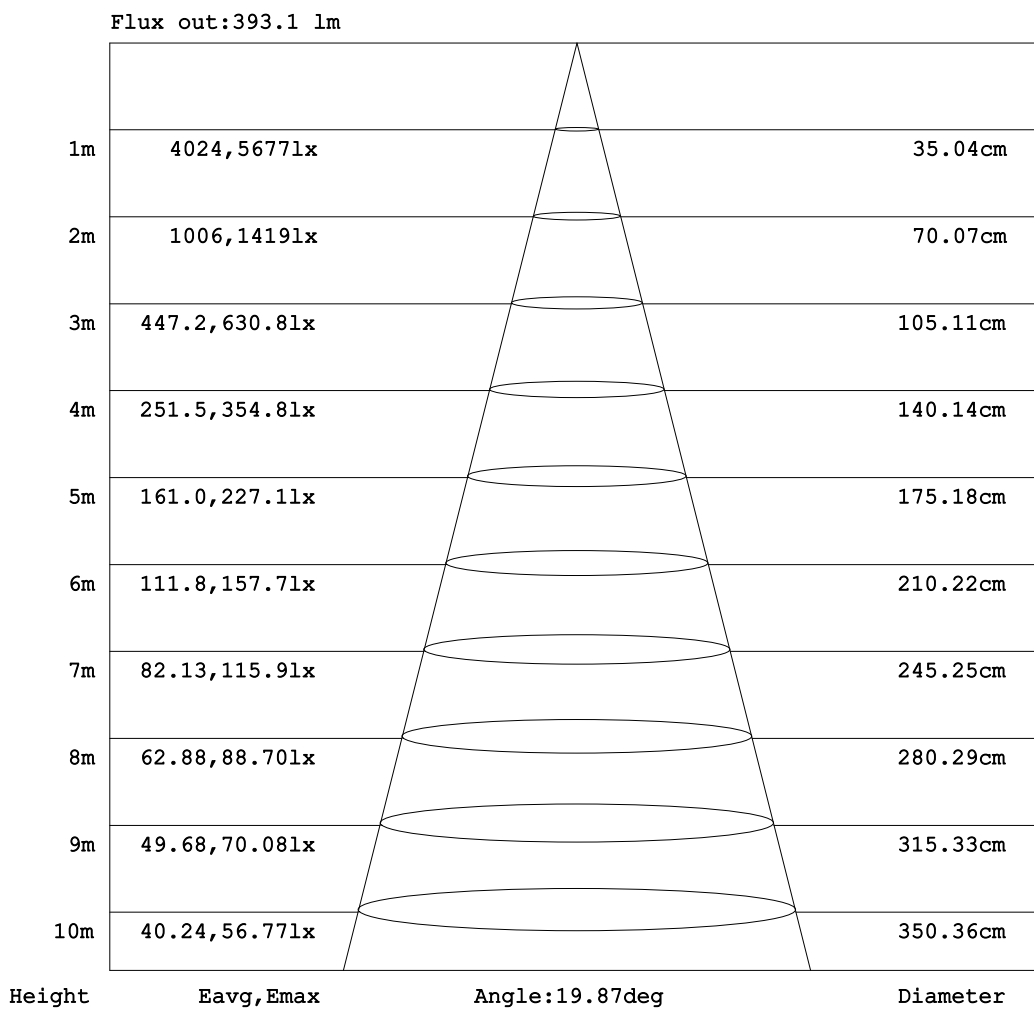


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:02 October 2020

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:0.0510A P:11.400W PF:0.9800 Freq:50.00Hz Lamp Flux:816.66lx1 lm		
NAME: SLDL284F-2030P-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



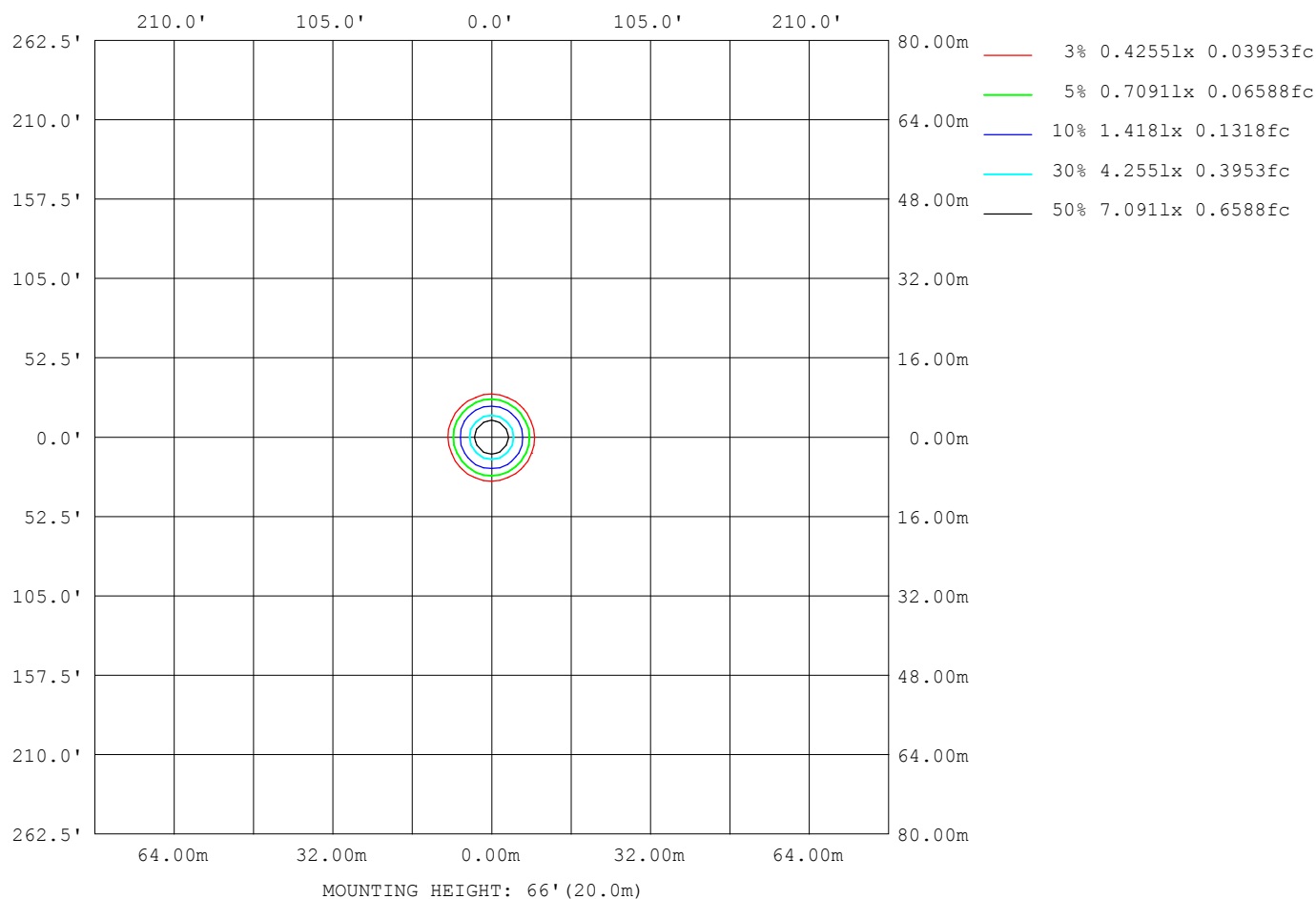
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:02 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:0.0510A P:11.400W PF:0.9800 Freq:50.00Hz Lamp Flux:816.66lx1 lm		
NAME: SLDL284F-2030P-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:02 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:0.0510A P:11.400W PF:0.9800 Freq:50.00Hz Lamp Flux:816.66lx1 lm		
NAME: SLDL284F-2030P-BGDD11	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

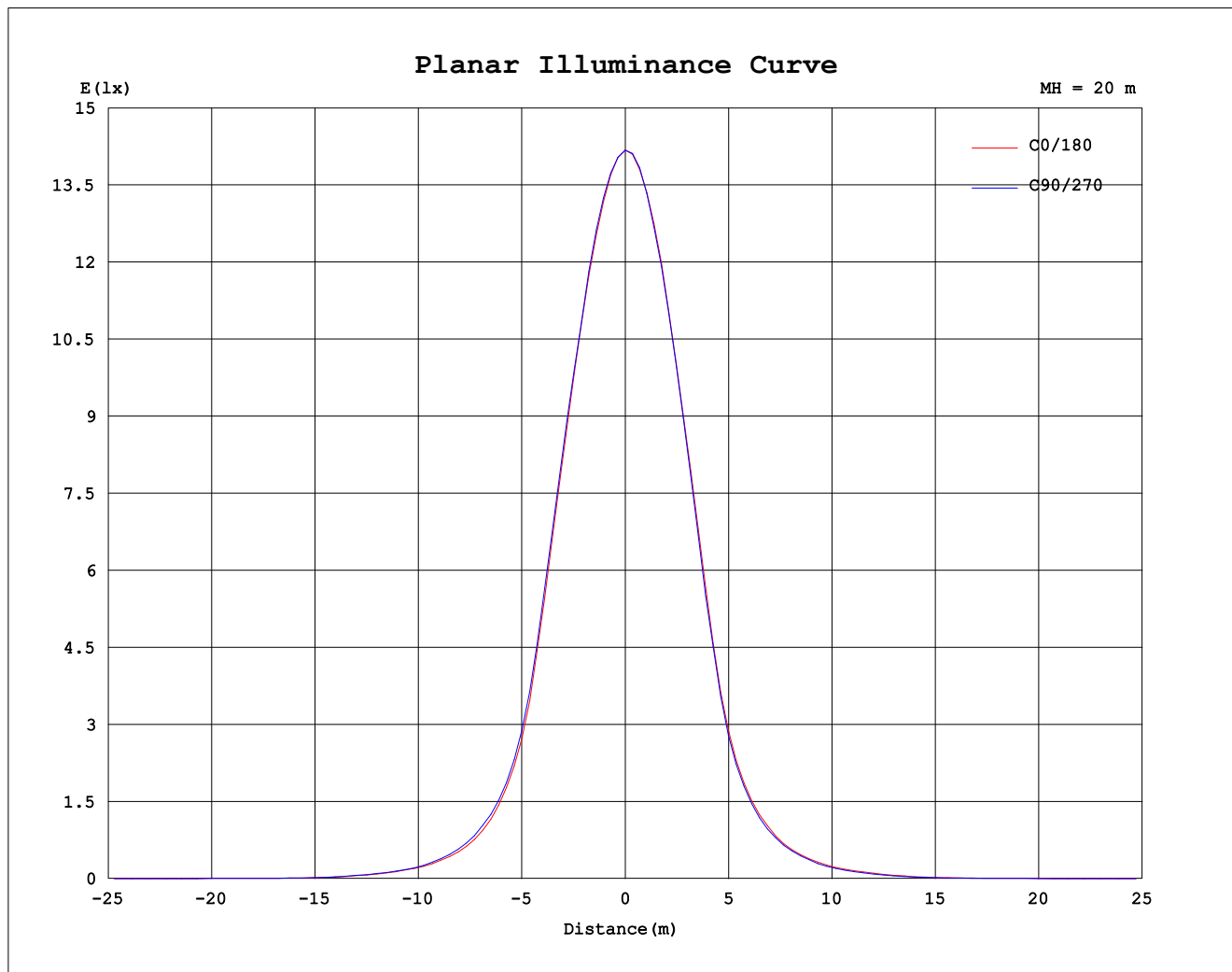
AvgL	cd/m2
L_0~180 (65) av	3567
L_0~180 (75) av	2261
L_0~180 (85) av	1223
L_90~270 (65) av	3375
L_90~270 (75) av	2126
L_90~270 (85) av	1118
L_45 (65) av	3442
L_45 (75) av	2170
L_45 (85) av	1123

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:02 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: 02 October 2020

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:

```

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:

```