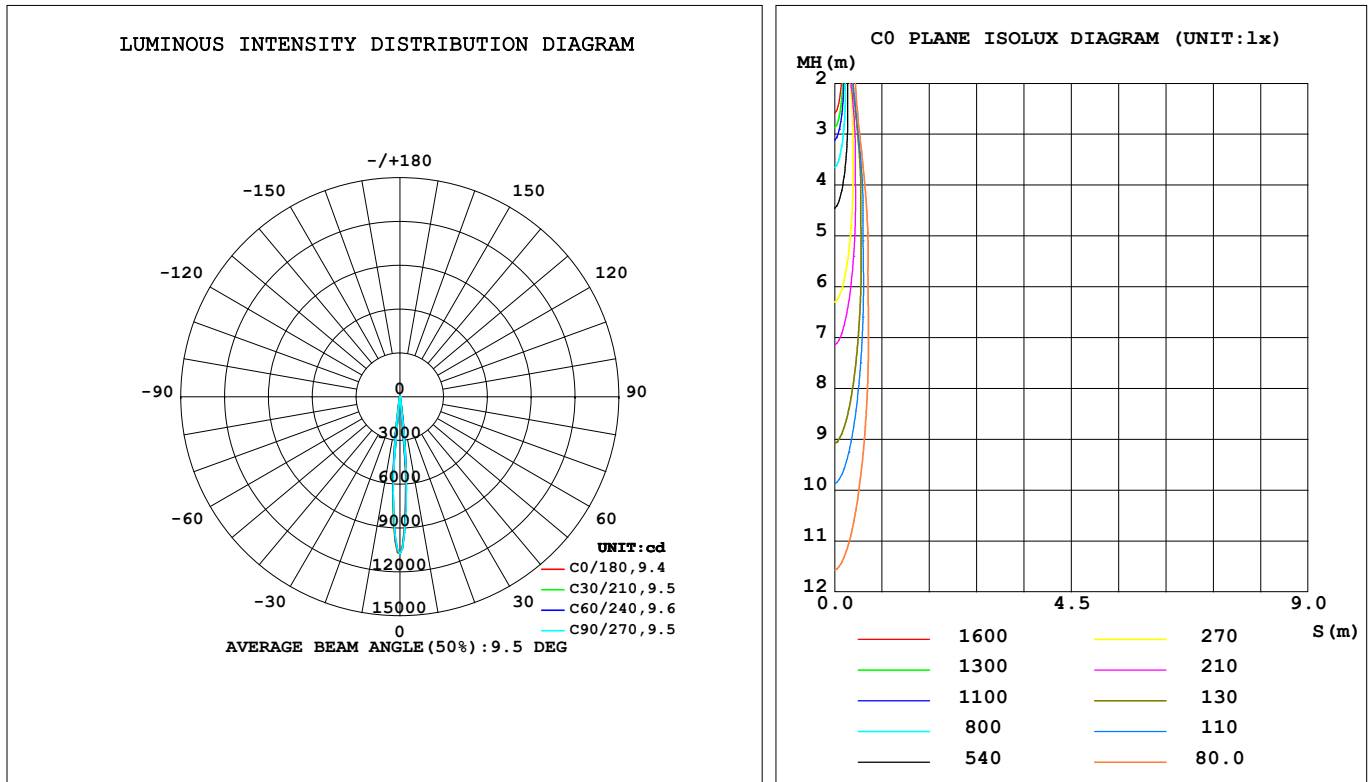


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.00V I:0.0320A P:6.9000W PF:0.9640 Freq:50.00Hz Lamp Flux:409.16x1 lm		
NAME: SLDL284F-0930A-BGDD09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 59.30 lm/W
MODEL		I _{max} (cd)	10754	S/MH (C0/180)		0.18
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.17
RATED VOLTAGE (V)	230V	TOTAL FLUX (lm)	409.16	η UP,DN (C0-180)		0.0,48.1
NOMINAL FLUX (lm)	409.16	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,51.9
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: 22 September 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:

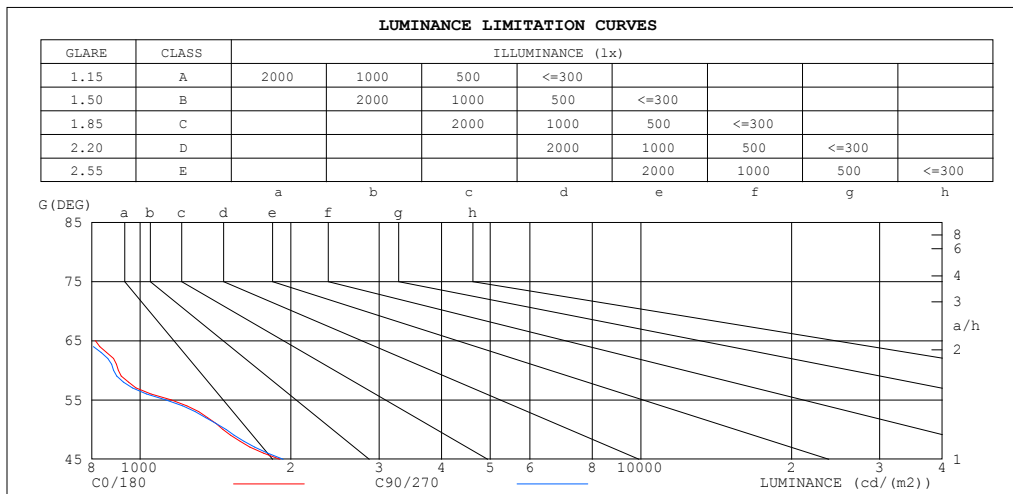
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	46.81	52.96	60.57	57.87	64.22	62.87	60.52	59.47	0- 10	319.5	319.5	78.1,78.1
20	8.731	8.751	8.859	8.964	9.549	9.659	9.805	9.361	10- 20	57.68	377.2	92.2,92.2
30	2.221	2.241	2.292	2.386	2.790	2.752	2.605	2.398	20- 30	23.12	400.4	97.8,97.8
40	0.2925	0.2846	0.2821	0.3030	0.3298	0.3105	0.3025	0.3054	30- 40	6.000	406.4	99.3,99.3
50	0.1186	0.1189	0.1199	0.1169	0.1167	0.1134	0.1157	0.1156	40- 50	1.403	407.8	99.7,99.7
60	0.0570	0.0575	0.0555	0.0536	0.0526	0.0523	0.0532	0.0551	50- 60	0.7324	408.5	99.8,99.8
70	0.0327	0.0322	0.0304	0.0297	0.0297	0.0293	0.0303	0.0309	60- 70	0.4158	408.9	99.9,99.9
80	0.0109	0.0098	0.0089	0.0094	0.0097	0.0092	0.0099	0.0093	70- 80	0.2189	409.1	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.0367	409.2	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: μ A10cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:22 September 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:0.0320A P:6.9000W PF:0.9640 Freq:50.00Hz Lamp Flux:409.16x1 lm		
NAME: SLDL284F-0930A-BGDD09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	360	205
80	500	407
75	714	644
70	760	707
65	813	779
60	905	885
55	1152	1123
50	1464	1486
45	1903	1929

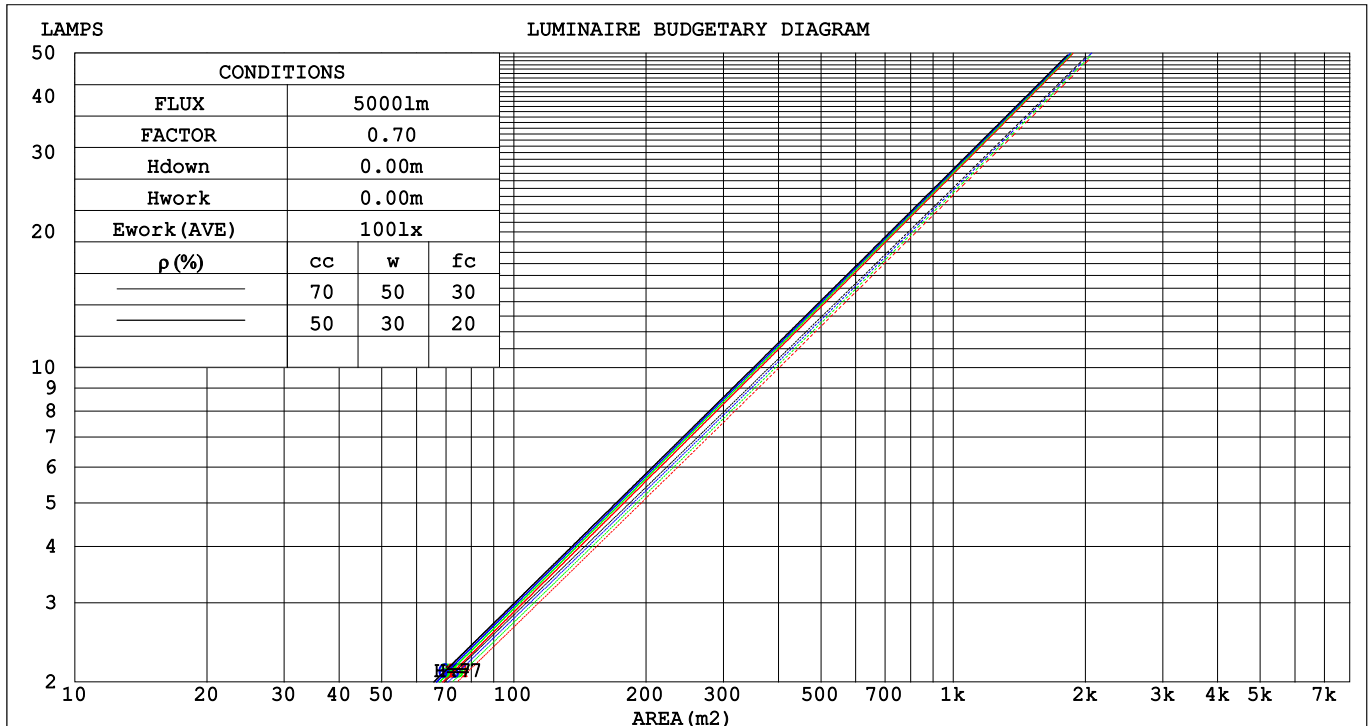
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 22 September 2020

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:0.0320A P:6.9000W PF:0.9640 Freq:50.00Hz Lamp Flux:409.16x1 lm		
NAME: SLDL284F-0930A-BGDD09	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:22 September 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:0.0320A P:6.9000W PF:0.9640 Freq:50.00Hz Lamp Flux:409.16x1 lm		
NAME: SLDL284F-0930A-BGDD09	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	.108	.061	.019	.101	.058	.018	.089	.051	.016	.078	.045	.014	.068	.039	.013	
2.0	.097	.053	.016	.092	.051	.016	.082	.046	.014	.073	.041	.013	.064	.036	.011	
3.0	.088	.047	.014	.084	.045	.014	.076	.041	.012	.068	.037	.011	.061	.034	.011	
4.0	.081	.042	.012	.077	.040	.012	.070	.037	.011	.064	.034	.010	.058	.032	.010	
5.0	.074	.038	.011	.071	.037	.011	.066	.034	.010	.061	.032	.010	.056	.030	.009	
6.0	.069	.035	.010	.066	.034	.010	.062	.032	.009	.057	.030	.009	.053	.028	.008	
7.0	.064	.032	.009	.062	.031	.009	.058	.029	.008	.054	.028	.008	.051	.026	.008	
8.0	.060	.029	.008	.058	.029	.008	.055	.027	.008	.052	.026	.008	.049	.025	.007	
9.0	.057	.027	.008	.055	.027	.008	.052	.026	.007	.049	.025	.007	.047	.024	.007	
10.0	.053	.026	.007	.052	.025	.007	.049	.024	.007	.047	.023	.007	.045	.022	.006	

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	.166	.158	.150	.142	.136	.129	.097	.093	.089	.056	.054	.052	.018	.017	.017	
2.0	.146	.133	.122	.125	.114	.105	.086	.079	.073	.050	.046	.043	.016	.015	.014	
3.0	.129	.113	.100	.111	.098	.087	.076	.068	.061	.044	.040	.036	.014	.013	.012	
4.0	.115	.097	.083	.099	.084	.072	.068	.059	.051	.039	.034	.030	.013	.011	.010	
5.0	.103	.084	.070	.089	.073	.061	.061	.051	.043	.035	.030	.026	.011	.010	.008	
6.0	.093	.074	.060	.080	.064	.052	.055	.045	.037	.032	.026	.022	.010	.009	.007	
7.0	.085	.065	.052	.073	.056	.045	.050	.040	.032	.029	.023	.019	.009	.008	.006	
8.0	.077	.058	.045	.066	.050	.039	.046	.035	.028	.027	.021	.016	.009	.007	.005	
9.0	.071	.052	.039	.061	.045	.034	.042	.032	.024	.025	.019	.014	.008	.006	.005	
10.0	.065	.047	.034	.056	.041	.030	.039	.029	.021	.023	.017	.013	.007	.006	.004	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:22 September 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:0.0320A P:6.9000W PF:0.9640 Freq:50.00Hz Lamp Flux:409.16x1 lm											
NAME: SLDL284F-0930A-BGDD09					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		5.4	5.9	5.6	6.0	6.1	5.5	5.9	5.6	6.0	6.2
3H		5.6	6.0	5.8	6.2	6.4	5.6	6.1	5.9	6.2	6.4
4H		5.7	6.1	6.0	6.3	6.5	5.7	6.1	6.0	6.3	6.5
6H		5.8	6.2	6.0	6.4	6.6	5.7	6.1	6.0	6.4	6.6
8H		5.8	6.1	6.0	6.4	6.6	5.7	6.1	6.0	6.3	6.6
12H		5.7	6.1	6.0	6.3	6.6	5.7	6.1	6.0	6.3	6.6
4H	2H	5.4	5.8	5.6	6.0	6.2	5.4	5.9	5.7	6.0	6.2
	3H	5.7	6.1	6.0	6.3	6.6	5.7	6.1	6.0	6.3	6.6
	4H	5.9	6.2	6.2	6.5	6.8	5.9	6.2	6.2	6.5	6.8
	6H	5.9	6.2	6.3	6.6	6.9	5.9	6.2	6.3	6.5	6.9
	8H	5.9	6.2	6.3	6.5	6.9	5.9	6.2	6.3	6.5	6.9
	12H	5.9	6.2	6.3	6.5	6.9	5.8	6.1	6.2	6.5	6.8
8H	4H	5.8	6.1	6.2	6.5	6.8	5.8	6.1	6.2	6.5	6.8
	6H	5.9	6.2	6.3	6.5	7.0	5.9	6.1	6.3	6.5	6.9
	8H	5.9	6.1	6.3	6.5	7.0	5.9	6.1	6.3	6.5	6.9
	12H	5.9	6.1	6.3	6.5	7.0	5.8	6.0	6.3	6.5	6.9
12H	4H	5.8	6.0	6.2	6.4	6.8	5.8	6.1	6.2	6.4	6.8
	6H	5.9	6.1	6.3	6.5	6.9	5.9	6.1	6.3	6.5	6.9
	8H	5.9	6.0	6.3	6.5	7.0	5.8	6.0	6.3	6.5	6.9
Variations with the observer position at spacings:											
S = 1.0H		+ 1.7 / - 1.6					+ 1.6 / - 1.6				
1.5H		+ 2.9 / - 1.3					+ 2.8 / - 1.3				
2.0H		+ 1.5 / - 1.0					+ 1.6 / - 1.1				

CIE Pub.117, 409.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.1)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:22 September 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:0.0320A P:6.9000W PF:0.9640 Freq:50.00Hz Lamp Flux:409.16x1 lm		
NAME: SLDL284F-0930A-BGDD09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

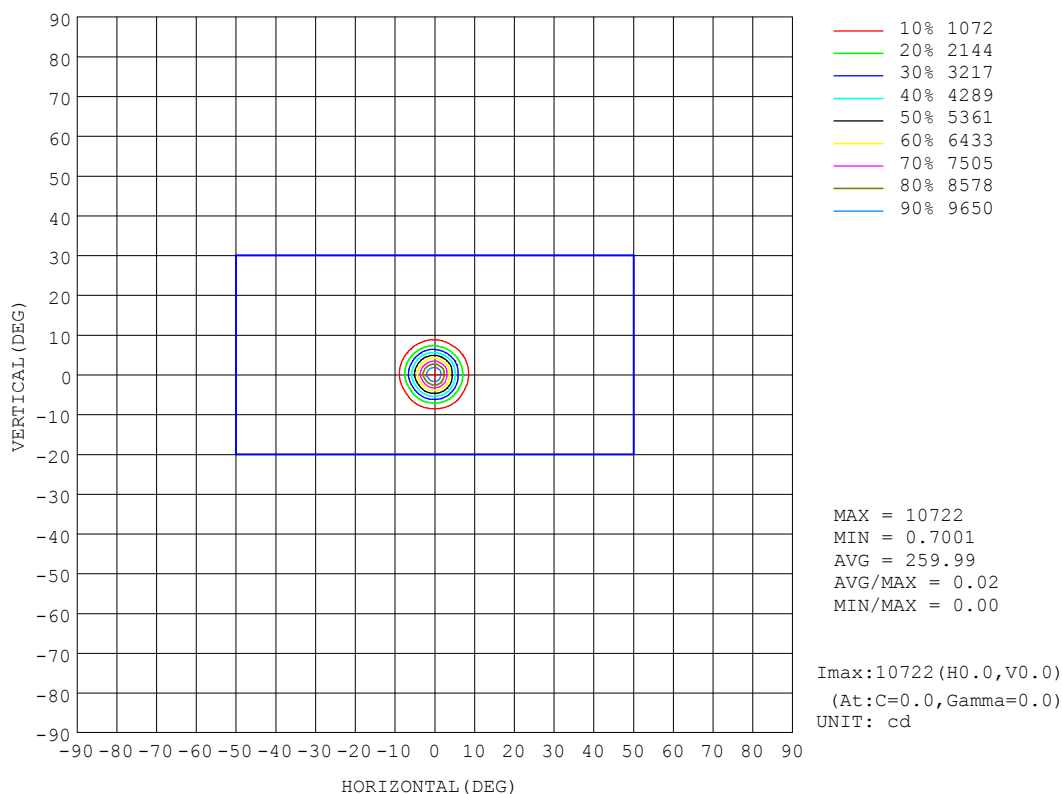
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	91	85	82	90	85	82	79
0.80	98	93	90	97	93	90	96	92	89	86
1.00	102	97	94	101	96	93	99	96	93	89
1.25	105	101	98	104	100	97	102	99	96	93
1.50	108	104	101	107	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	110	107	111	108	106	108	106	104	98
4.00	115	112	110	113	110	109	109	107	106	99
5.00	116	114	112	114	112	111	110	109	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:22 September 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:0.0320A P:6.9000W PF:0.9640 Freq:50.00Hz Lamp Flux:409.16x1 lm		
NAME: SLDL284F-0930A-BGDD09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

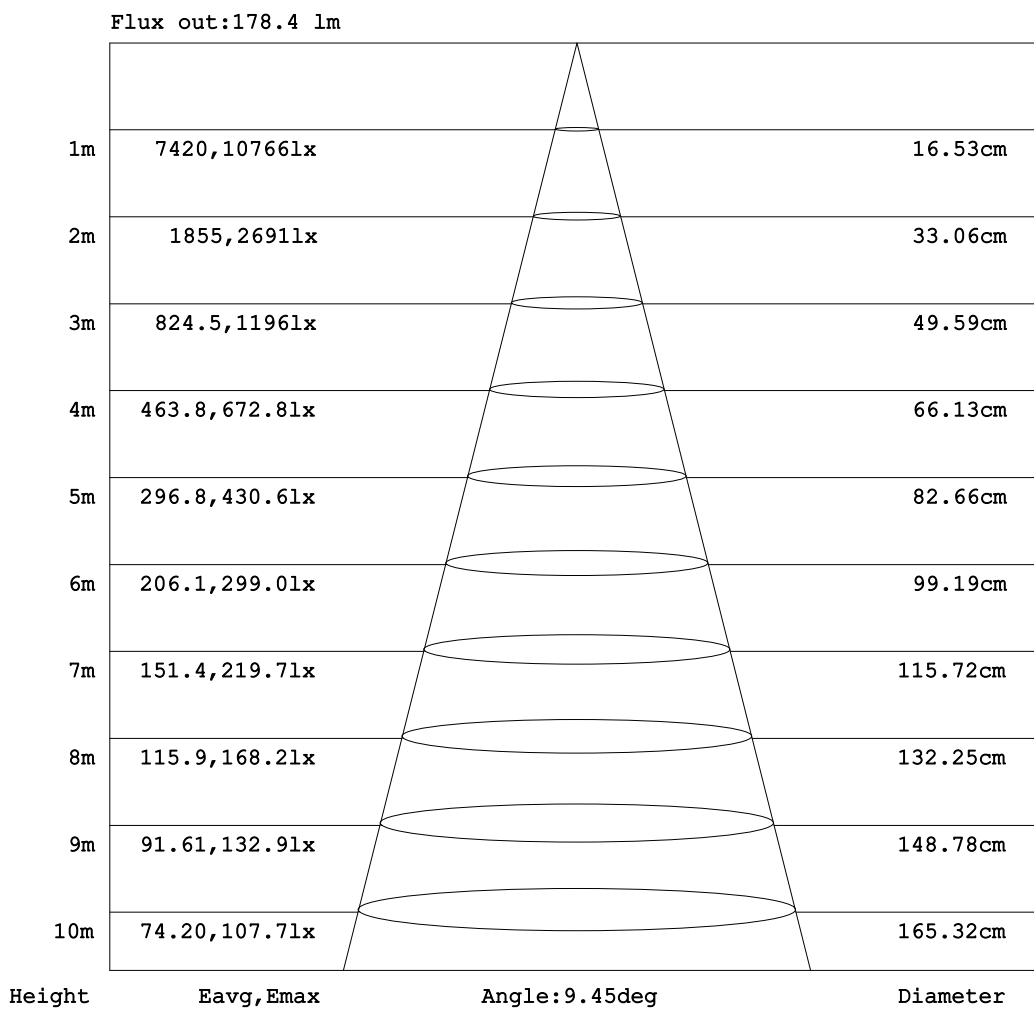


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:22 September 2020

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:0.0320A P:6.9000W PF:0.9640 Freq:50.00Hz Lamp Flux:409.16x1 lm		
NAME: SLDL284F-0930A-BGDD09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



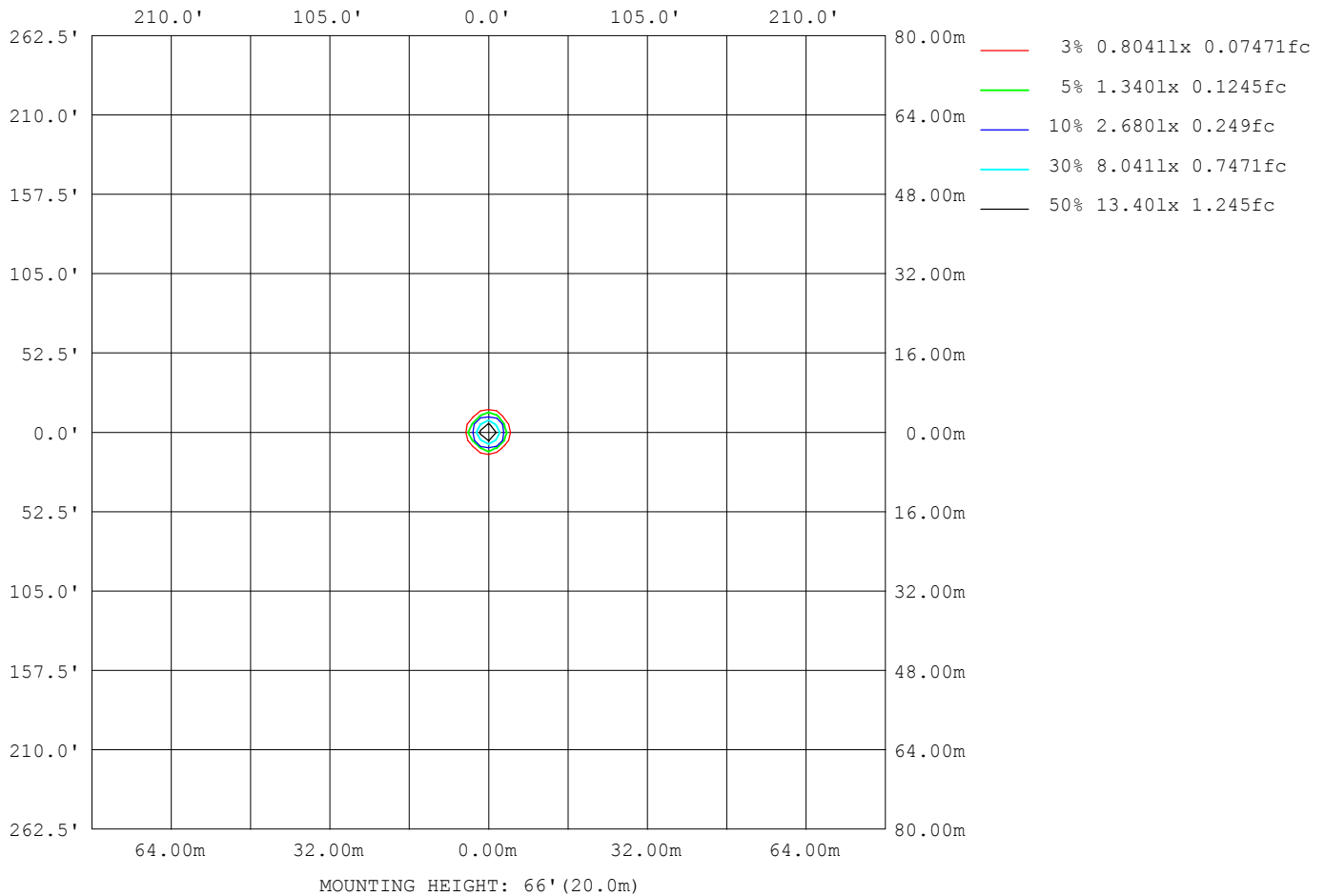
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:22 September 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:0.0320A P:6.9000W PF:0.9640 Freq:50.00Hz Lamp Flux:409.16x1 lm		
NAME: SLDL284F-0930A-BGDD09	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:22 September 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:0.0320A P:6.9000W PF:0.9640 Freq:50.00Hz Lamp Flux:409.16x1 lm		
NAME: SLDL284F-0930A-BGDD09	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

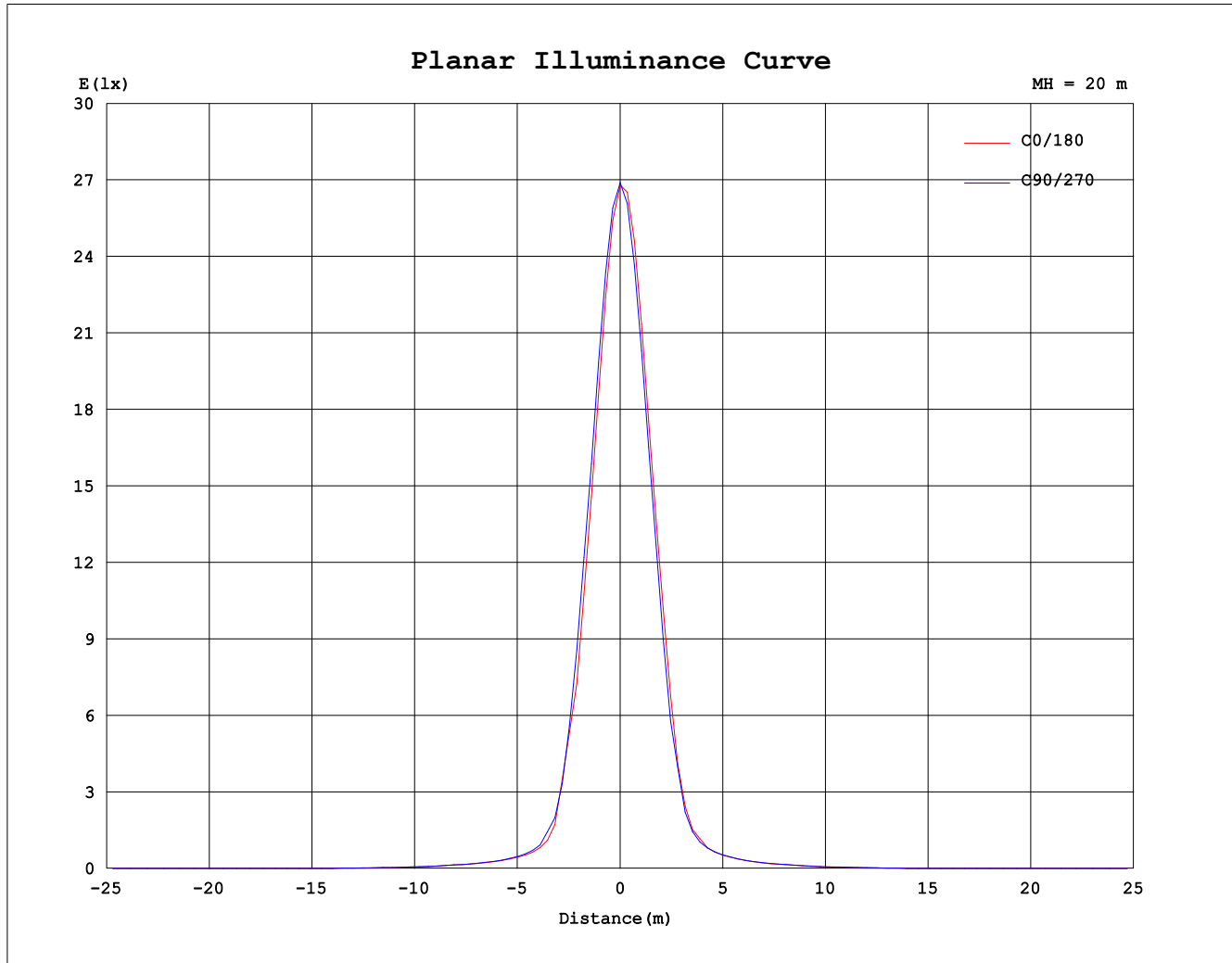
AvgL	cd/m2
L_0~180 (65) av	789
L_0~180 (75) av	682
L_0~180 (85) av	302
L_90~270 (65) av	777
L_90~270 (75) av	651
L_90~270 (85) av	246
L_45 (65) av	780
L_45 (75) av	650
L_45 (85) av	244

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:22 September 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: 22 September 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:

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