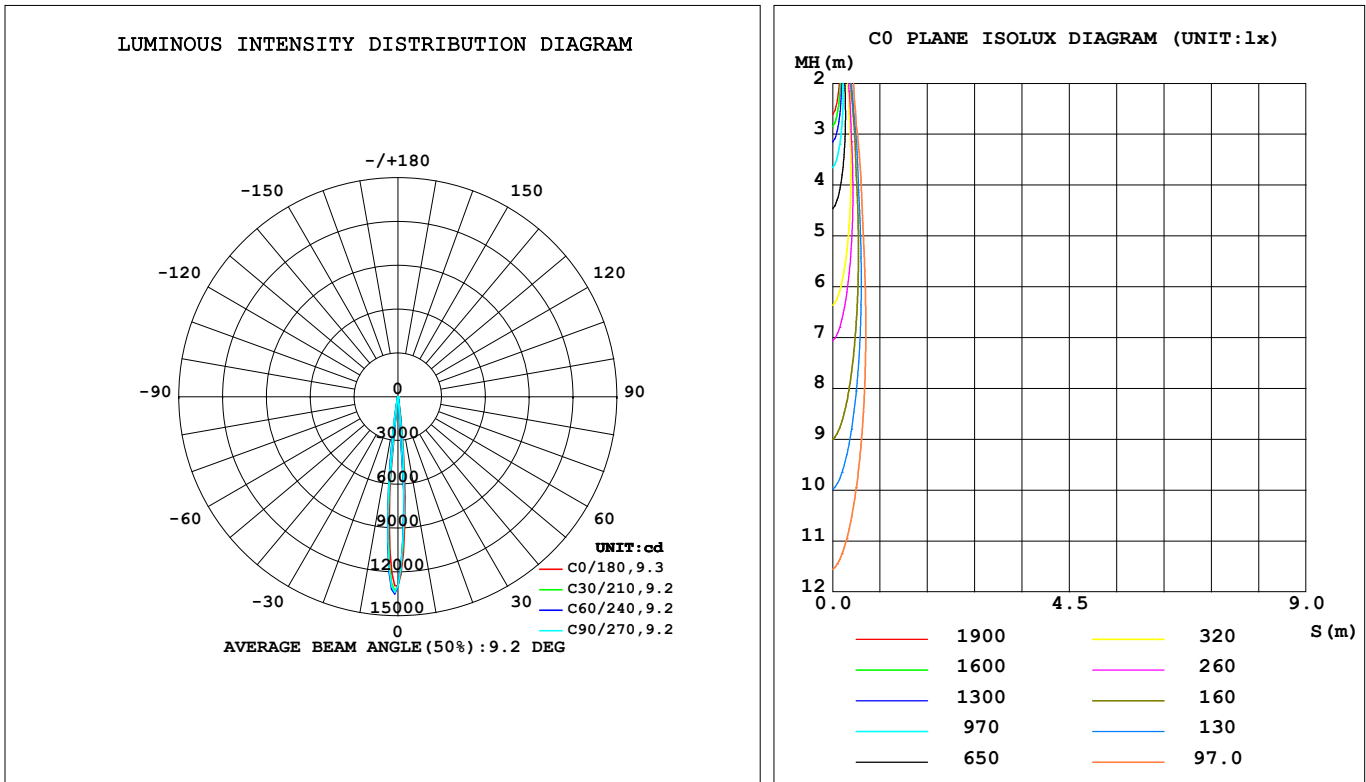


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.00V I:0.0380A P:8.4000W PF:0.9730 Freq:50.00Hz Lamp Flux:491.392x1 lm		
NAME: SLDL234T-0930A-TWD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 58.50 lm/W
MODEL		I _{max} (cd)	13497	S/MH (C0/180)		0.17
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.19
RATED VOLTAGE (V)	230V	TOTAL FLUX (lm)	491.39	η UP,DN (C0-180)		0.0,40.8
NOMINAL FLUX (lm)	491.392	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,59.2
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:09 July 2021

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:

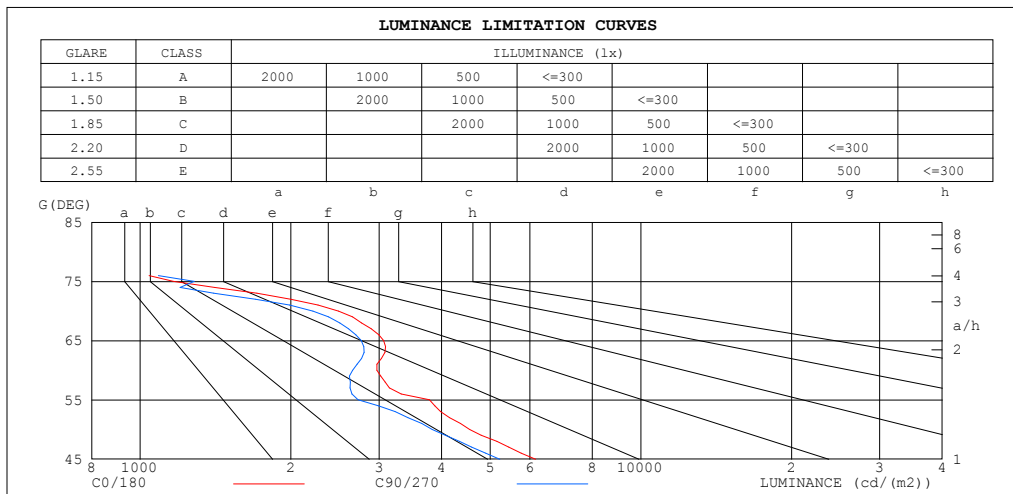
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	56.34	48.41	46.05	52.68	64.75	83.58	89.58	76.21	0- 10	382.6	382.6	77.9,77.9
20	10.34	9.598	9.042	9.432	10.28	11.08	11.25	10.95	10- 20	63.71	446.3	90.8,90.8
30	2.797	2.654	2.638	2.685	2.855	3.057	3.078	3.036	20- 30	26.16	472.4	96.1,96.1
40	0.9949	0.8837	0.8388	0.9181	1.009	1.005	1.008	1.054	30- 40	10.28	482.7	98.2,98.2
50	0.3675	0.3257	0.3087	0.3563	0.3750	0.3959	0.3846	0.3976	40- 50	4.510	487.2	99.2,99.2
60	0.1864	0.1709	0.1666	0.1658	0.1715	0.1758	0.1816	0.1880	50- 60	2.181	489.4	99.6,99.6
70	0.1069	0.0972	0.0949	0.0986	0.1028	0.1070	0.1098	0.1086	60- 70	1.485	490.9	99.9,99.9
80	0.0089	0.0075	0.0068	0.0070	0.0059	0.0061	0.0072	0.0071	70- 80	0.4610	491.4	100,100
90	0.0001	0	0	0	0	0	0	0	80- 90	0.0322	491.4	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:09 July 2021

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:0.0380A P:8.4000W PF:0.9730 Freq:50.00Hz Lamp Flux:491.392x1 lm		
NAME: SLDL234T-0930A-TWD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	399	297
80	410	311
75	1166	1282
70	2488	2212
65	3063	2764
60	2969	2657
55	3782	2724
50	4553	3831
45	6165	5229

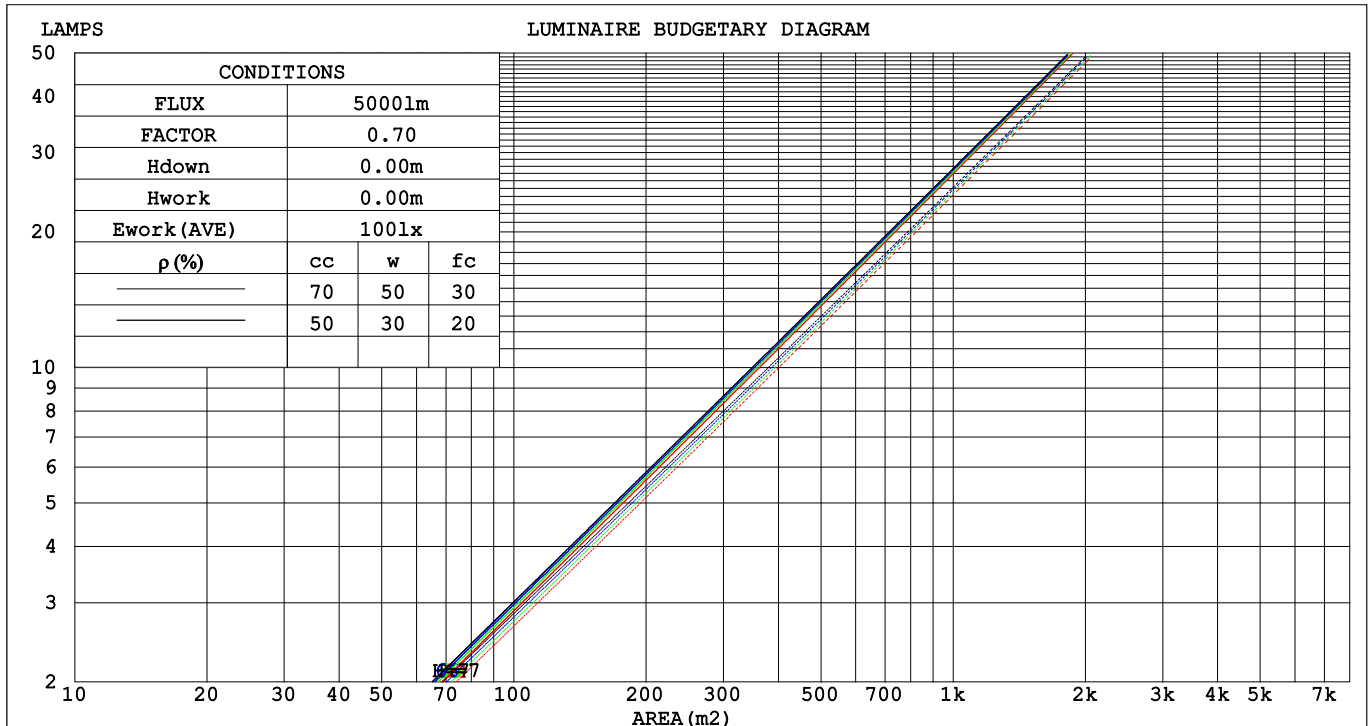
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:09 July 2021

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:0.0380A P:8.4000W PF:0.9730 Freq:50.00Hz Lamp Flux:491.392x1 lm		
NAME: SLDL234T-0930A-TWD15	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:09 July 2021

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:0.0380A P:8.4000W PF:0.9730 Freq:50.00Hz Lamp Flux:491.392x1 lm																	
NAME: SLDL234T-0930A-TWD15									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	.110	.063	.020	.104	.059	.019	.092	.053	.017	.080	.046	.015	.070	.041	.013	
2.0	.100	.055	.017	.095	.052	.016	.085	.047	.015	.075	.042	.013	.067	.038	.012	
3.0	.091	.048	.014	.086	.046	.014	.078	.042	.013	.071	.039	.012	.064	.035	.011	
4.0	.083	.043	.013	.080	.042	.012	.073	.039	.012	.066	.036	.011	.061	.033	.010	
5.0	.077	.039	.011	.074	.038	.011	.068	.035	.010	.063	.033	.010	.058	.031	.009	
6.0	.071	.036	.010	.068	.035	.010	.064	.033	.009	.059	.031	.009	.055	.029	.009	
7.0	.066	.033	.009	.064	.032	.009	.060	.030	.009	.056	.029	.008	.053	.027	.008	
8.0	.062	.030	.009	.060	.030	.008	.057	.028	.008	.053	.027	.008	.050	.026	.008	
9.0	.058	.028	.008	.057	.028	.008	.054	.027	.008	.051	.025	.007	.048	.024	.007	
10.0	.055	.026	.007	.054	.026	.007	.051	.025	.007	.048	.024	.007	.046	.023	.007	

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	.167	.158	.150	.142	.136	.129	.097	.093	.089	.056	.054	.052	.018	.017	.017	
2.0	.147	.133	.121	.126	.114	.105	.086	.079	.073	.050	.046	.043	.016	.015	.014	
3.0	.130	.113	.100	.111	.098	.086	.076	.068	.061	.044	.040	.036	.014	.013	.012	
4.0	.116	.097	.083	.099	.084	.072	.068	.059	.051	.040	.034	.030	.013	.011	.010	
5.0	.104	.084	.070	.089	.073	.061	.062	.051	.043	.036	.030	.026	.011	.010	.008	
6.0	.094	.074	.060	.081	.064	.052	.056	.045	.037	.032	.026	.022	.010	.009	.007	
7.0	.085	.065	.051	.073	.057	.045	.051	.040	.032	.029	.023	.019	.010	.008	.006	
8.0	.078	.058	.044	.067	.050	.039	.046	.035	.028	.027	.021	.016	.009	.007	.005	
9.0	.072	.052	.039	.062	.045	.034	.043	.032	.024	.025	.019	.014	.008	.006	.005	
10.0	.066	.047	.034	.057	.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:09 July 2021

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:0.0380A P:8.4000W PF:0.9730 Freq:50.00Hz Lamp Flux:491.392x1 lm											
NAME: SLDL234T-0930A-TWD15					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		9.8	10.2	9.9	10.4	10.5	9.2	9.6	9.3	9.7	9.9
3H		10.4	10.8	10.6	11.0	11.2	9.8	10.2	10.0	10.4	10.6
4H		10.4	10.8	10.7	11.0	11.2	9.8	10.3	10.1	10.5	10.7
6H		10.4	10.8	10.6	11.0	11.2	9.8	10.2	10.0	10.4	10.6
8H		10.3	10.7	10.6	10.9	11.2	9.7	10.1	10.0	10.4	10.6
12H		10.3	10.7	10.6	10.9	11.2	9.7	10.1	10.0	10.3	10.6
4H 2H		9.9	10.4	10.2	10.6	10.8	9.4	9.8	9.6	10.0	10.2
3H		10.6	11.0	10.9	11.3	11.5	10.1	10.5	10.4	10.8	11.0
4H		10.7	11.0	11.0	11.3	11.6	10.2	10.5	10.5	10.8	11.1
6H		10.6	10.9	11.0	11.2	11.6	10.1	10.4	10.5	10.7	11.1
8H		10.5	10.8	10.9	11.2	11.5	10.0	10.3	10.4	10.7	11.0
12H		10.5	10.8	10.9	11.1	11.5	10.0	10.3	10.4	10.6	11.0
8H 4H		10.6	10.9	11.0	11.2	11.6	10.1	10.4	10.5	10.7	11.1
6H		10.5	10.7	10.9	11.1	11.5	10.0	10.3	10.4	10.7	11.1
8H		10.4	10.7	10.9	11.1	11.5	10.0	10.2	10.4	10.6	11.0
12H		10.4	10.6	10.8	11.0	11.5	9.9	10.1	10.4	10.5	11.0
12H 4H		10.5	10.8	10.9	11.2	11.5	10.0	10.3	10.4	10.7	11.1
6H		10.4	10.7	10.9	11.1	11.5	10.0	10.2	10.4	10.6	11.0
8H		10.4	10.6	10.8	11.0	11.5	9.9	10.1	10.4	10.5	11.0
Variations with the observer position at spacings:											
S = 1.0H		+ 1.6 / - 2.0					+ 1.3 / - 1.9				
1.5H		+ 2.7 / - 2.3					+ 2.4 / - 2.0				
2.0H		+ 2.4 / - 1.6					+ 1.9 / - 1.3				

CIE Pub.117, 491.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.5)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:09 July 2021

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:0.0380A P:8.4000W PF:0.9730 Freq:50.00Hz Lamp Flux:491.392x1 lm		
NAME: SLDL234T-0930A-TWD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

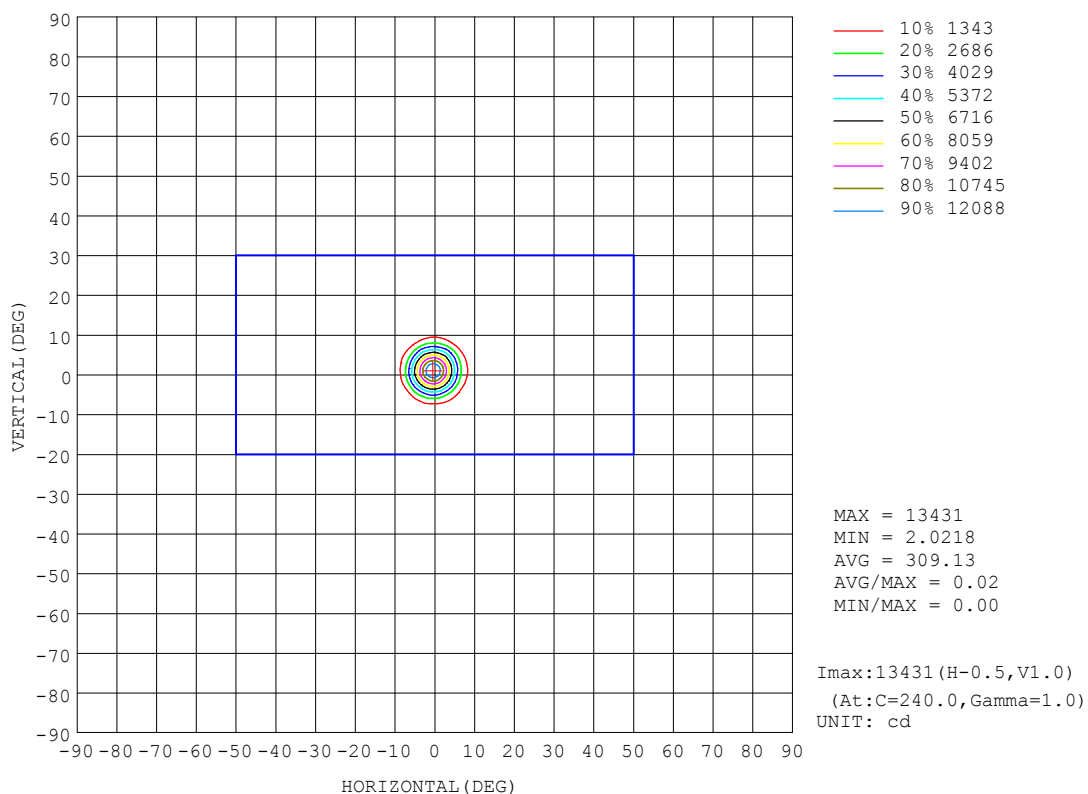
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	81	90	85	81	89	84	81	78
0.80	97	92	89	97	92	89	96	91	88	85
1.00	101	96	93	101	96	93	99	95	92	89
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	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:09 July 2021

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:0.0380A P:8.4000W PF:0.9730 Freq:50.00Hz Lamp Flux:491.392x1 lm		
NAME: SLDL234T-0930A-TWD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

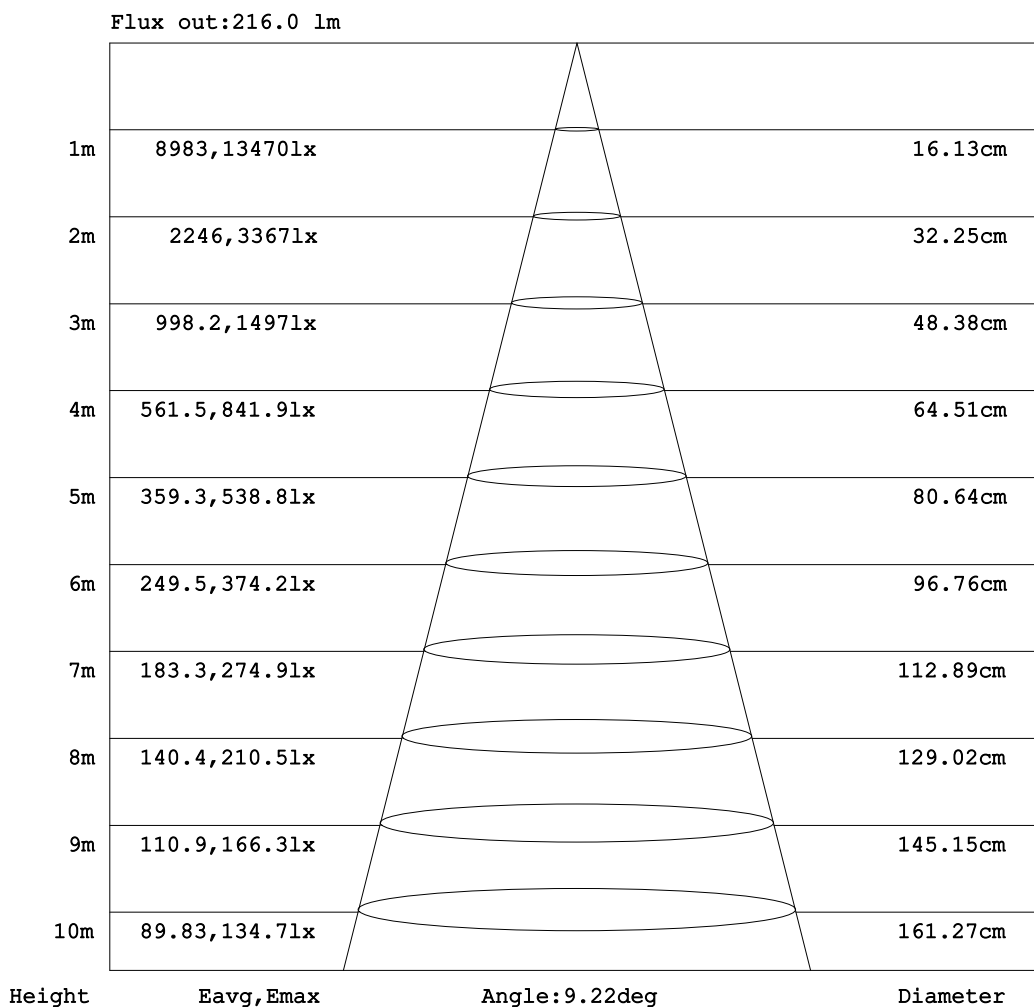


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:09 July 2021

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:0.0380A P:8.4000W PF:0.9730 Freq:50.00Hz Lamp Flux:491.392x1 lm		
NAME: SLDL234T-0930A-TWD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



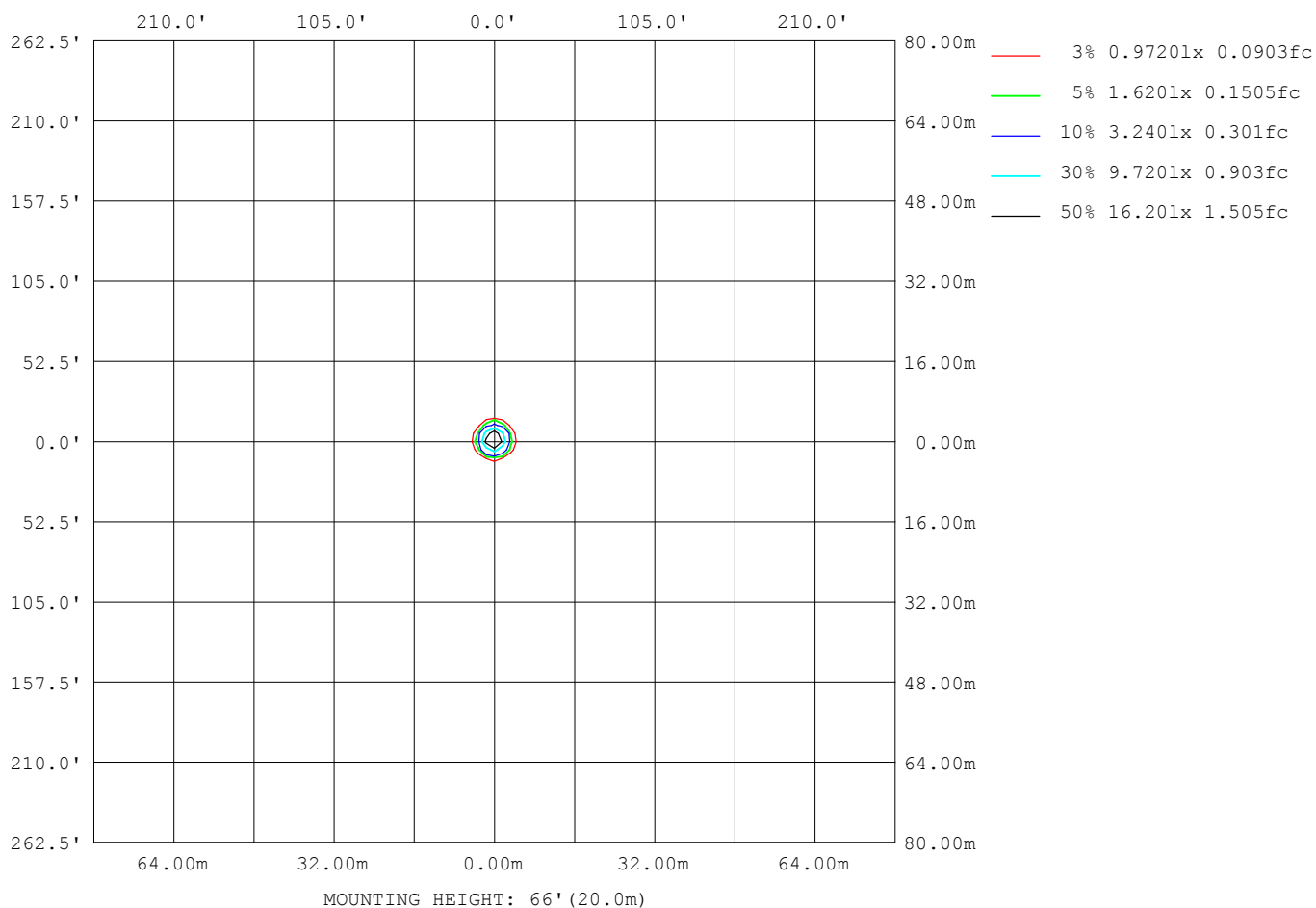
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:09 July 2021

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:0.0380A P:8.4000W PF:0.9730 Freq:50.00Hz Lamp Flux:491.392x1 lm		
NAME: SLDL234T-0930A-TWD15	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:09 July 2021

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:0.0380A P:8.4000W PF:0.9730 Freq:50.00Hz Lamp Flux:491.392x1 lm		
NAME: SLDL234T-0930A-TWD15	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

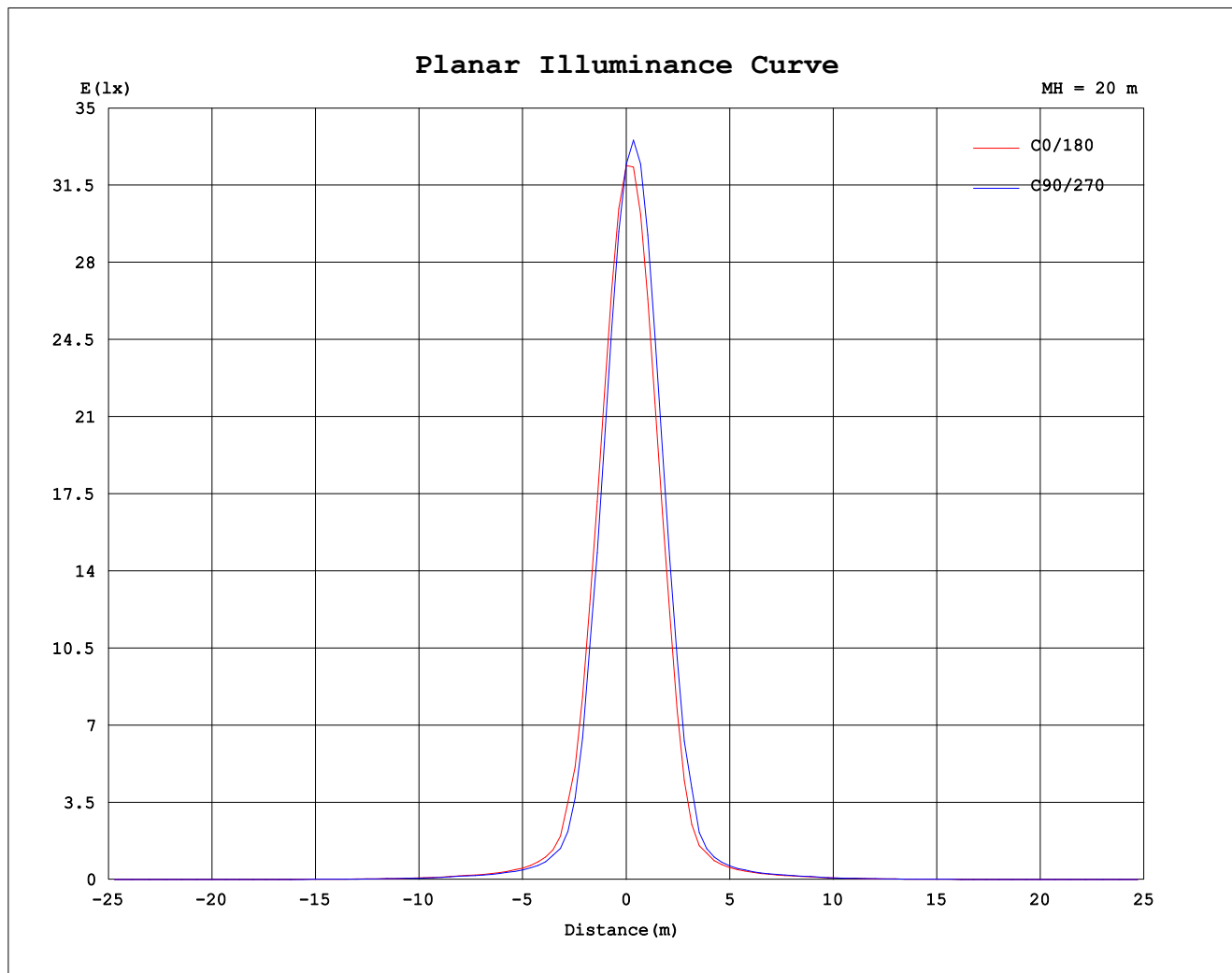
AvgL	cd/m2
L_0~180 (65) av	3030
L_0~180 (75) av	1146
L_0~180 (85) av	318
L_90~270 (65) av	2928
L_90~270 (75) av	1202
L_90~270 (85) av	278
L_45 (65) av	2968
L_45 (75) av	1129
L_45 (85) av	268

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:09 July 2021

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: 09 July 2021

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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