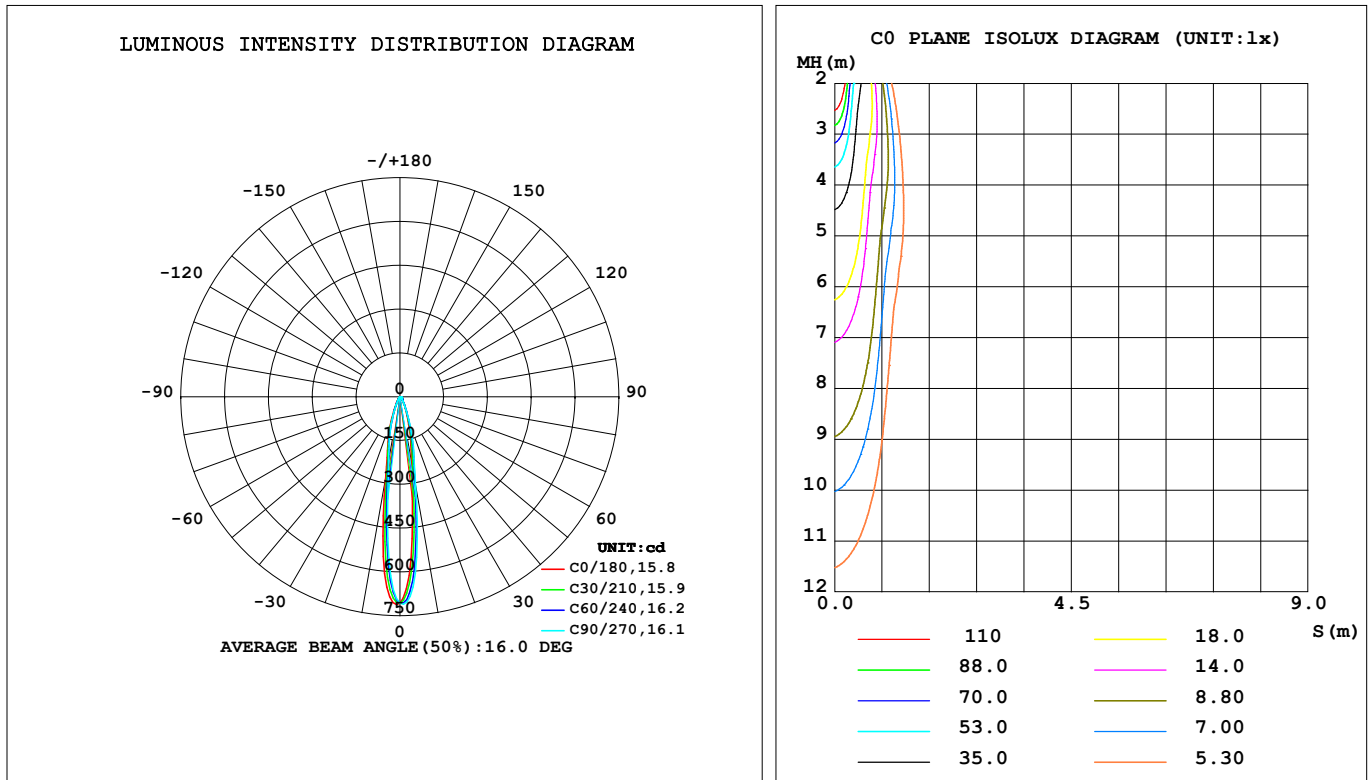


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.00V I:0.0410A P:6.3000W PF:0.6720 Freq:50.00Hz Lamp Flux:125.92lx1 lm		
NAME: SL224-15-B-N-Q4	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 19.99 lm/W
MODEL		I _{max} (cd)	714.4	S/MH (C0/180)		0.31
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)		0.24
RATED VOLTAGE (V)		TOTAL FLUX (lm)	125.92	η UP,DN (C0-180)		0.0,56.5
NOMINAL FLUX (lm)	125.921	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,43.5
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: 26 May 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:

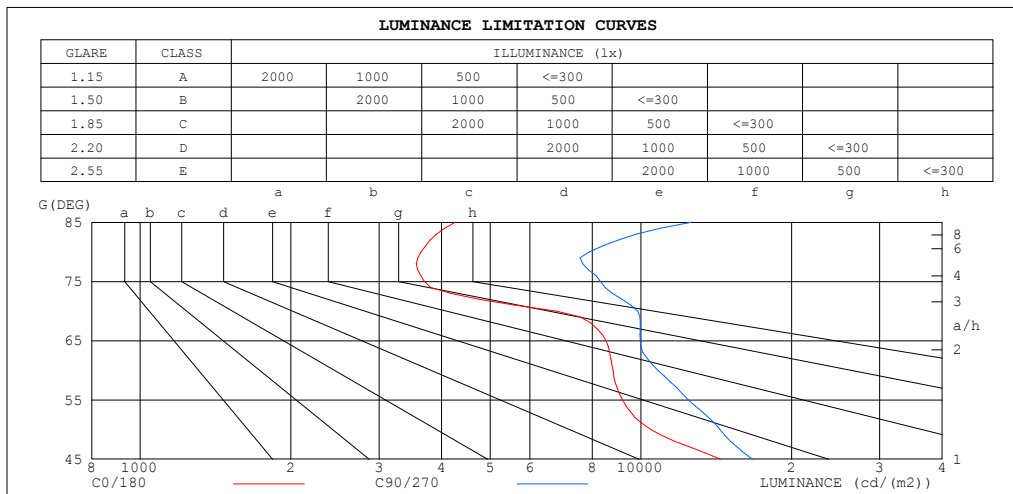
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	228.3	279.3	313.4	306.2	287.3	243.7	221.4	209.7	0- 10	41.94	41.94	33.3,33.3
20	78.44	90.72	97.81	98.73	89.94	75.61	71.89	70.64	10- 20	42.23	84.16	66.8,66.8
30	26.91	30.50	29.14	26.82	22.17	19.07	17.49	20.01	20- 30	20.97	105.1	83.5,83.5
40	10.79	12.77	11.70	11.57	8.589	5.578	4.573	6.501	30- 40	9.242	114.4	90.8,90.8
50	4.773	7.007	6.525	7.621	4.937	2.531	1.937	2.968	40- 50	5.054	119.4	94.8,94.8
60	3.119	4.230	3.818	4.545	2.903	1.145	0.5002	1.122	50- 60	3.385	122.8	97.5,97.5
70	1.645	2.357	2.379	2.255	0.8302	0.1788	0.1494	0.2819	60- 70	1.887	124.7	99,99
80	0.4484	0.9900	0.9674	0.9903	0.2273	0.0269	0	0.0641	70- 80	0.8655	125.6	99.7,99.7
90	0.0517	0.3237	0.4823	0.3768	0	0.0004	0	0.0004	80- 90	0.3511	125.9	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:26 May 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:0.0410A P:6.3000W PF:0.6720 Freq:50.00Hz Lamp Flux:125.92lx1 lm		
NAME: SL224-15-B-N-Q4	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4262	12648
80	3642	7895
75	3692	8301
70	6783	9857
65	8518	9981
60	8798	10821
55	9201	12434
50	10472	14387
45	14444	16716

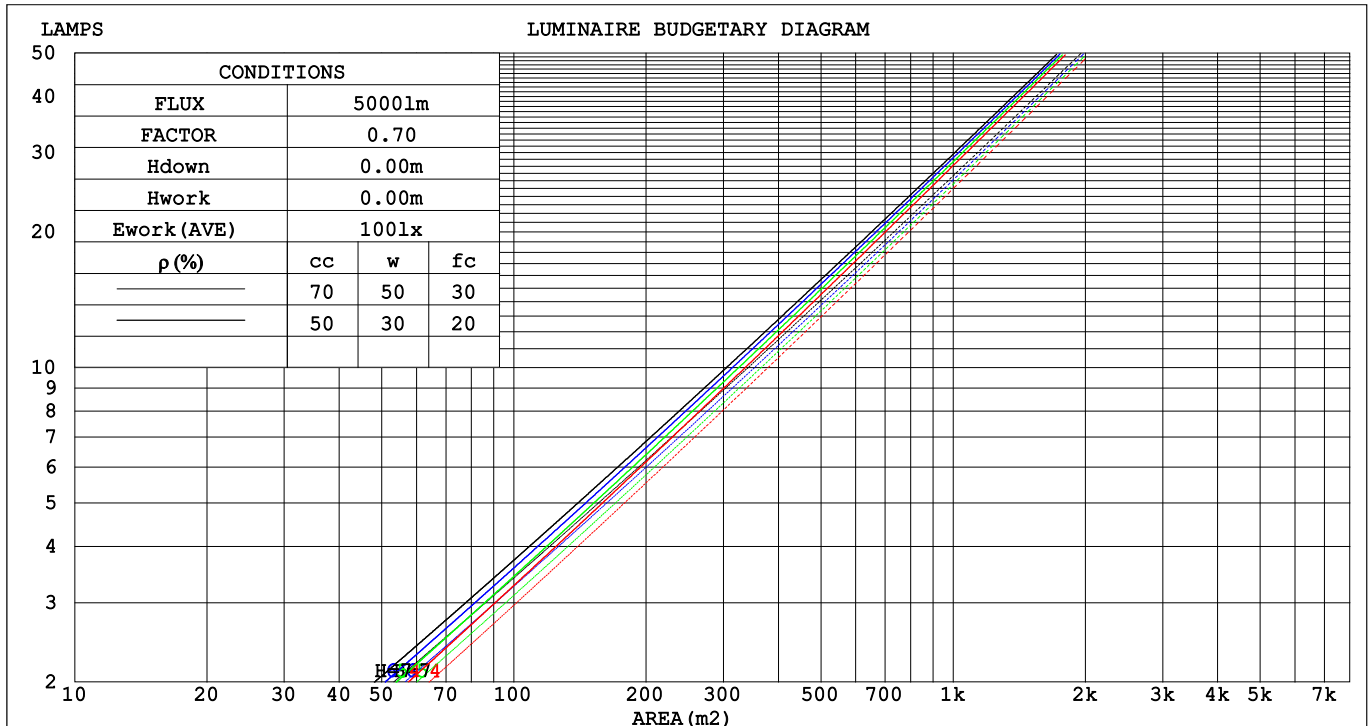
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 26 May 2020

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:0.0410A P:6.3000W PF:0.6720 Freq:50.00Hz Lamp Flux:125.92lx1 lm		
NAME: SL224-15-B-N-Q4	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:26 May 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:0.0410A P:6.3000W PF:0.6720 Freq:50.00Hz Lamp Flux:125.92lx1 lm																	
NAME: SL224-15-B-N-Q4									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	.160	.091	.029	.153	.087	.028	.141	.081	.026	.129	.074	.024	.119	.069	.022	
2.0	.149	.082	.025	.144	.079	.024	.133	.074	.023	.124	.069	.022	.115	.065	.020	
3.0	.139	.074	.022	.135	.072	.022	.126	.068	.021	.118	.065	.020	.110	.061	.019	
4.0	.130	.068	.020	.126	.066	.020	.119	.063	.019	.112	.060	.018	.106	.057	.017	
5.0	.122	.062	.018	.119	.061	.018	.113	.059	.017	.107	.056	.017	.101	.054	.016	
6.0	.115	.058	.017	.113	.057	.016	.107	.055	.016	.102	.053	.016	.097	.051	.015	
7.0	.109	.054	.015	.107	.053	.015	.102	.051	.015	.097	.050	.015	.093	.048	.014	
8.0	.104	.051	.014	.101	.050	.014	.097	.048	.014	.093	.047	.014	.089	.046	.013	
9.0	.099	.048	.013	.097	.047	.013	.093	.046	.013	.089	.045	.013	.086	.044	.013	
10.0	.094	.045	.013	.092	.045	.012	.089	.044	.012	.086	.043	.012	.083	.042	.012	

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	.170	.157	.146	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016		
2.0	.153	.133	.115	.131	.114	.100	.090	.079	.069	.052	.046	.041	.017	.015	.013		
3.0	.139	.113	.093	.119	.098	.080	.082	.068	.056	.047	.040	.033	.015	.013	.011		
4.0	.128	.098	.076	.109	.085	.066	.075	.059	.046	.044	.035	.028	.014	.011	.009		
5.0	.118	.086	.063	.101	.075	.055	.070	.052	.039	.040	.031	.023	.013	.010	.008		
6.0	.109	.077	.053	.094	.066	.046	.065	.046	.033	.037	.027	.020	.012	.009	.006		
7.0	.102	.069	.045	.087	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006		
8.0	.095	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005		
9.0	.089	.056	.034	.077	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004		
10.0	.084	.052	.030	.073	.045	.026	.050	.032	.019	.029	.019	.011	.010	.006	.004		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:26 May 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:0.0410A P:6.3000W PF:0.6720 Freq:50.00Hz Lamp Flux:125.92lx1 lm											
NAME: SL224-15-B-N-Q4					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		24.5	25.2	24.7	25.4	25.6	24.8	25.5	25.0	25.7	25.9
3H		25.2	25.9	25.4	26.1	26.3	25.8	26.5	26.0	26.7	26.9
4H		25.3	26.0	25.6	26.2	26.4	26.2	26.8	26.4	27.1	27.3
6H		25.4	26.0	25.7	26.3	26.5	26.4	27.1	26.7	27.3	27.5
8H		25.4	26.0	25.7	26.3	26.5	26.6	27.2	26.9	27.4	27.7
12H		25.4	26.0	25.7	26.3	26.6	26.8	27.4	27.1	27.6	27.9
4H	2H	24.9	25.6	25.2	25.8	26.0	25.2	25.9	25.5	26.1	26.3
	3H	25.9	26.5	26.2	26.7	27.0	26.4	27.0	26.7	27.3	27.5
	4H	26.1	26.7	26.5	27.0	27.3	26.9	27.5	27.3	27.8	28.1
	6H	26.3	26.8	26.7	27.2	27.5	27.3	27.7	27.6	28.1	28.4
	8H	26.4	26.8	26.8	27.2	27.6	27.5	27.9	27.8	28.3	28.6
	12H	26.4	26.9	26.8	27.2	27.6	27.7	28.2	28.1	28.5	28.9
8H	4H	26.4	26.9	26.8	27.2	27.6	27.1	27.5	27.5	27.9	28.3
	6H	26.8	27.2	27.2	27.6	28.0	27.5	27.9	28.0	28.3	28.7
	8H	26.9	27.3	27.4	27.7	28.1	27.8	28.2	28.3	28.6	29.0
	12H	27.0	27.3	27.5	27.8	28.2	28.2	28.5	28.7	29.0	29.4
12H	4H	26.4	26.8	26.8	27.2	27.6	27.1	27.5	27.5	27.9	28.3
	6H	26.8	27.2	27.3	27.6	28.0	27.6	27.9	28.0	28.3	28.8
	8H	27.0	27.3	27.5	27.8	28.2	27.9	28.2	28.4	28.6	29.1
Variations with the observer position at spacings:											
S = 1.0H		+ 0.5 / - 0.7					+ 0.4 / - 0.5				
1.5H		+ 0.5 / - 1.1					+ 0.5 / - 0.3				
2.0H		+ 0.5 / - 1.0					+ 0.5 / - 0.6				

CIE Pub.117, 125.9 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -7.2)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:26 May 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:0.0410A P:6.3000W PF:0.6720 Freq:50.00Hz Lamp Flux:125.921x1 lm		
NAME: SL224-15-B-N-Q4	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

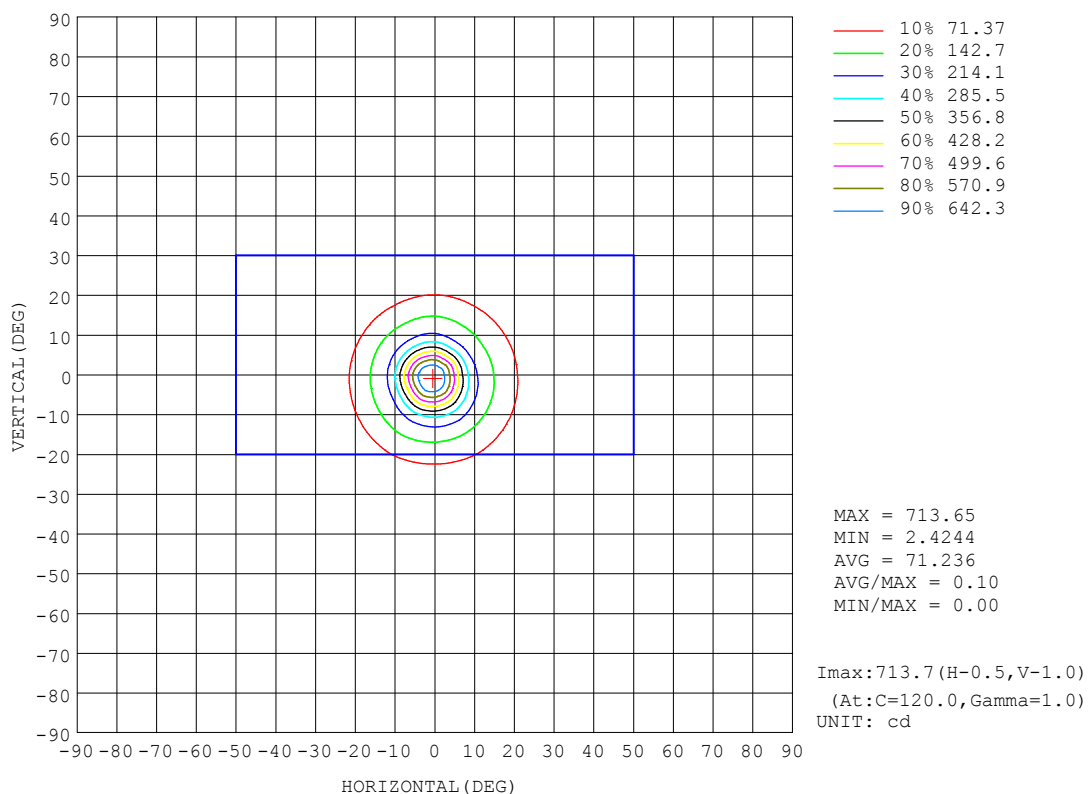
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	86	79	75	85	79	75	85	79	75	71
0.80	93	87	83	93	87	83	91	86	83	79
1.00	98	92	88	97	92	88	95	92	87	83
1.25	102	97	93	101	96	93	99	95	92	87
1.50	105	100	96	104	99	96	101	98	95	90
2.00	108	103	100	106	102	99	104	100	98	92
2.50	110	106	102	108	104	101	105	102	100	94
3.00	111	108	105	109	106	104	106	104	101	95
4.00	113	110	108	111	109	107	108	106	104	97
5.00	115	112	110	113	110	109	109	107	106	98
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:26 May 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:0.0410A P:6.3000W PF:0.6720 Freq:50.00Hz Lamp Flux:125.92lx1 lm		
NAME: SL224-15-B-N-Q4	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

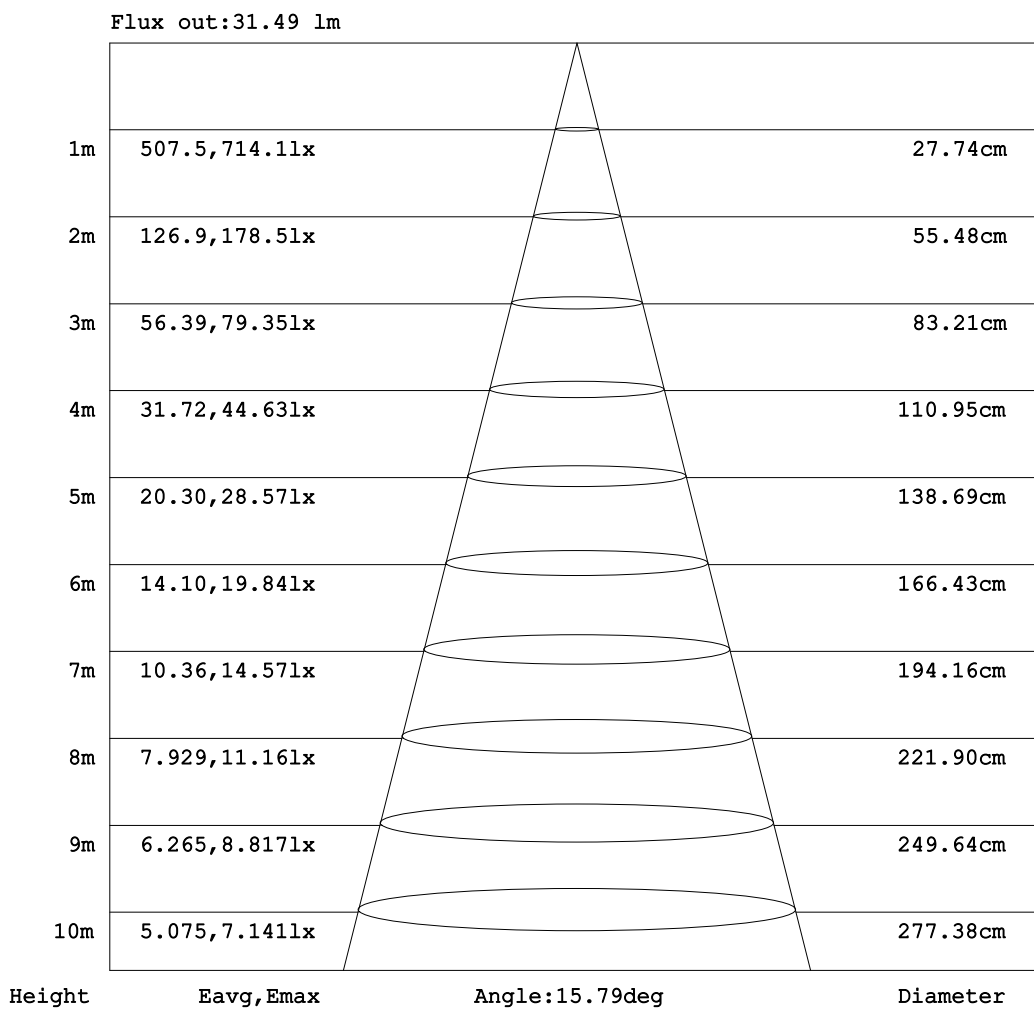


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 26 May 2020

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:0.0410A P:6.3000W PF:0.6720 Freq:50.00Hz Lamp Flux:125.92lx1 lm		
NAME: SL224-15-B-N-Q4	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:



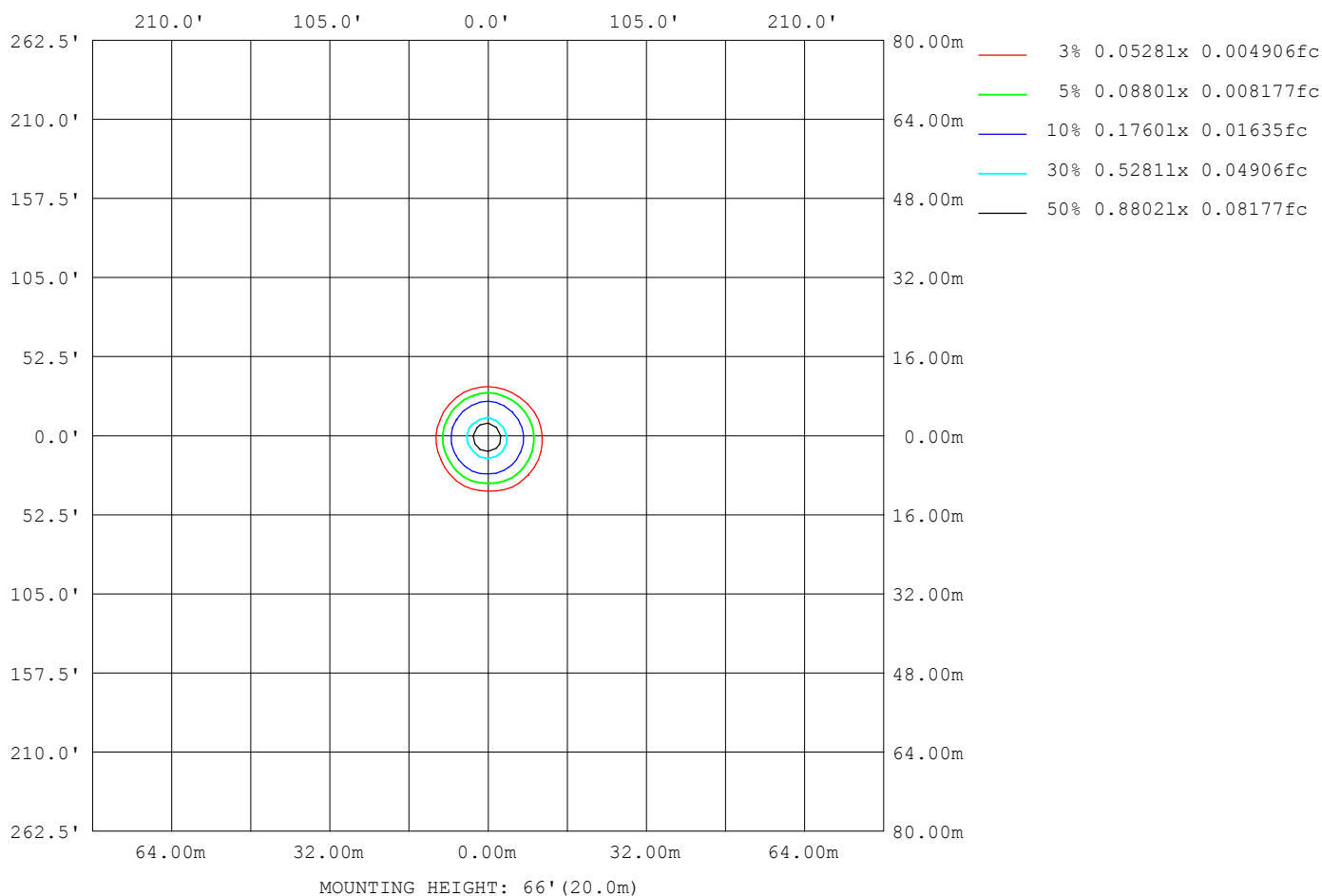
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:26 May 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:0.0410A P:6.3000W PF:0.6720 Freq:50.00Hz Lamp Flux:125.92lx1 lm		
NAME: SL224-15-B-N-Q4	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:26 May 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:0.0410A P:6.3000W PF:0.6720 Freq:50.00Hz Lamp Flux:125.92lx1 lm		
NAME: SL224-15-B-N-Q4	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Switch Lighting	SUR.:	Shielding Angle:

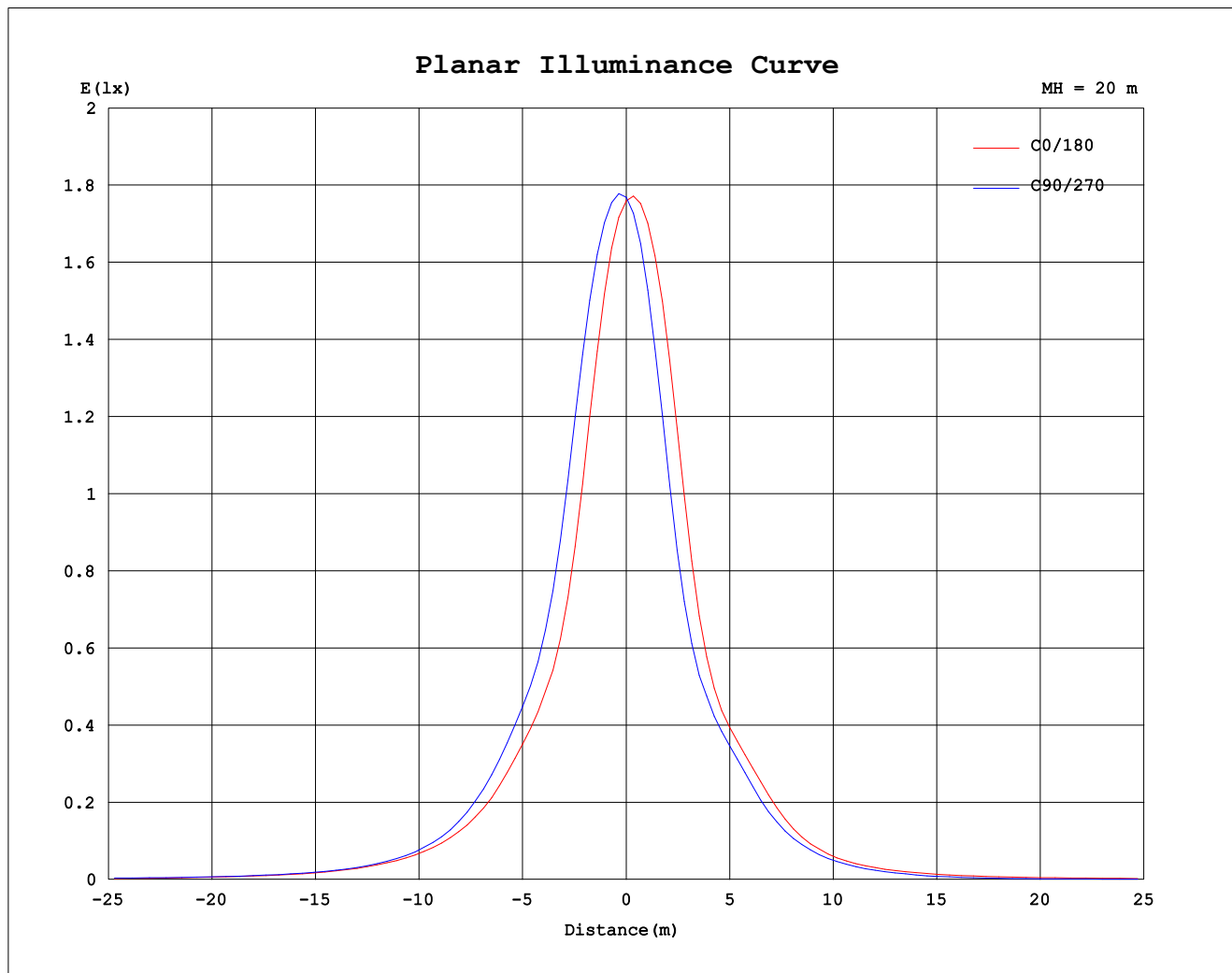
AvgL	cd/m2
L_0~180 (65) av	7157
L_0~180 (75) av	2881
L_0~180 (85) av	2813
L_90~270 (65) av	5457
L_90~270 (75) av	4177
L_90~270 (85) av	6313
L_45 (65) av	6281
L_45 (75) av	5031
L_45 (85) av	5810

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:26 May 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: 26 May 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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