

Luminaire Photograph



Light Output Ratio:	72.5%	
Luminaire Power:	19.33 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.30	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-7-14

Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: BXRE-30G1000-A-83 Ra:90
LENS: PM-1083-007 15R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

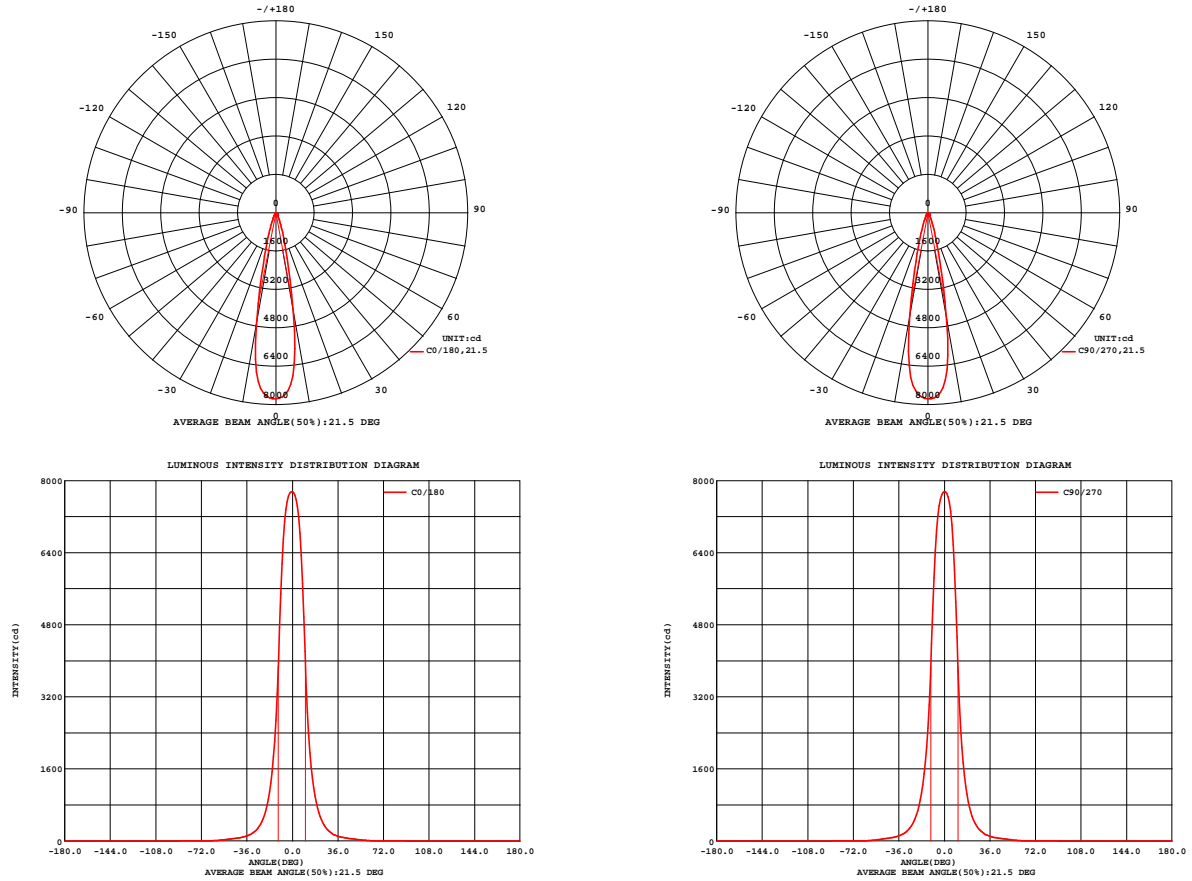


Fig. C0/C180

Fig. C90/C270

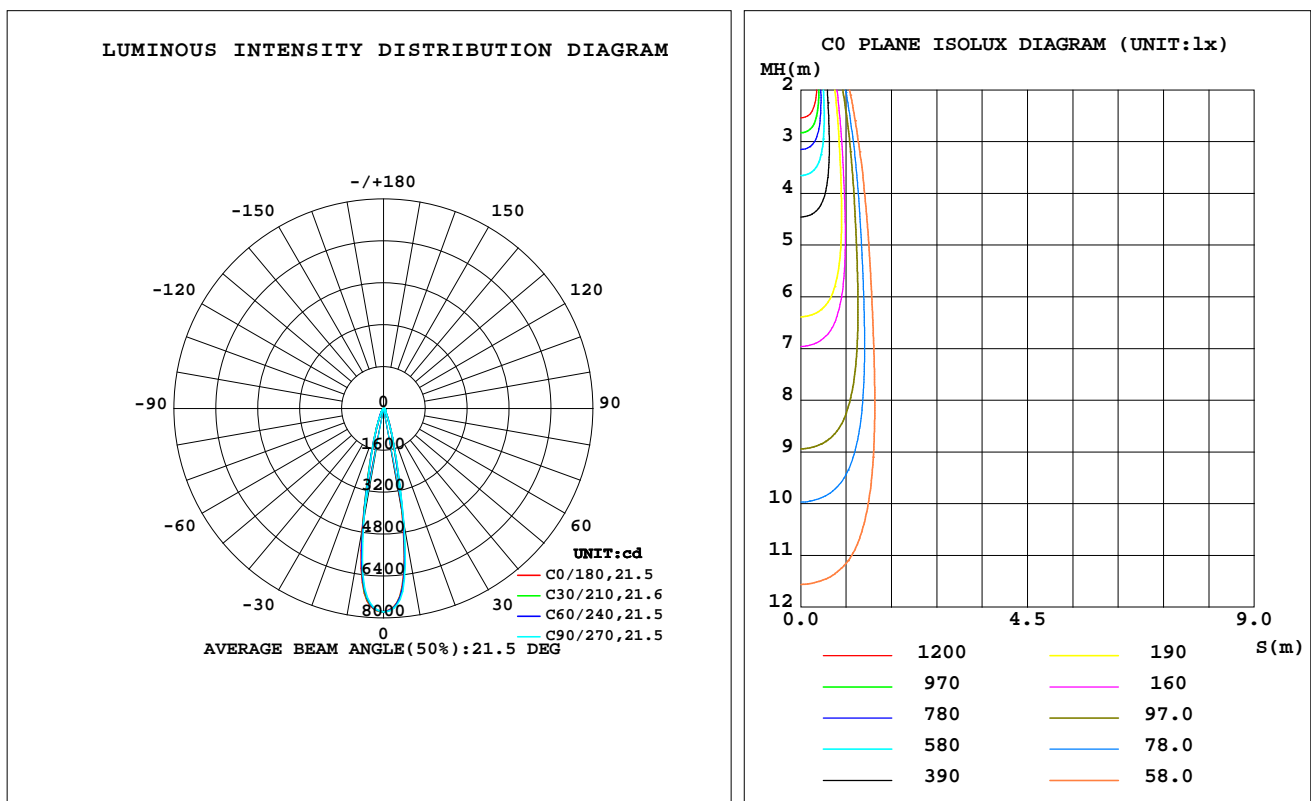
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.07V I:0.1618A P:19.330W PF:0.9937 Freq:59.98Hz Lamp Flux:2011.9x1 lm		
NAME: 2118.192-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307140899
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 75.47 lm/W
MODEL	Bridgelux	Imax(cd)	7757	S/MH(C0/180)	0.36	
NOMINAL POWER(W)	20	LOR(%)	72.5	S/MH(C90/270)	0.35	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1458.9	UP,DN(C0-180)	0.0,36.0	
NOMINAL FLUX(lm)	2011.9	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,36.5	
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	120	down(%)	72.5	CIBSE SHR MAX	0.30	



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ZONAL FLUX DIAGRAM

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	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	4208	4342	4521	4711	4736	4586	4378	4199	0- 10	605.8	605.8	41.5,30.1
20	728.6	722.9	743.0	766.9	783.0	791.0	776.4	741.9	10- 20	524.2	1130	77.5,56.2
30	192.6	188.2	192.4	198.3	204.7	205.7	205.7	199.4	20- 30	178.8	1309	89.7,65.1
40	78.70	77.45	78.03	79.98	81.85	83.22	83.64	81.23	30- 40	78.21	1387	95.1,68.9
50	39.20	38.48	37.66	40.30	41.74	40.89	39.47	39.84	40- 50	44.80	1432	98.1,71.2
60	9.686	8.987	7.295	10.19	11.53	9.311	7.295	9.097	50- 60	20.25	1452	99.5,72.2
70	2.436	2.350	2.133	2.493	2.864	2.316	1.958	2.139	60- 70	4.904	1457	99.9,72.4
80	0.9397	0.8655	0.7630	0.9075	1.068	0.8095	0.6904	0.7812	70- 80	1.615	1459	100,72.5
90	0	0	0	0	0	0	0	0	80- 90	0.3471	1459	100,72.5
100	0	0	0	0	0	0	0	0	90-100	0	1459	100,72.5
110	0	0	0	0	0	0	0	0	100-110	0	1459	100,72.5
120	0	0	0	0	0	0	0	0	110-120	0	1459	100,72.5
130	0	0	0	0	0	0	0	0	120-130	0	1459	100,72.5
140	0	0	0	0	0	0	0	0	130-140	0	1459	100,72.5
150	0	0	0	0	0	0	0	0	140-150	0	1459	100,72.5
160	0	0	0	0	0	0	0	0	150-160	0	1459	100,72.5
170	0	0	0	0	0	0	0	0	160-170	0	1459	100,72.5
180	0	0	0	0	0	0	0	0	170-180	0	1459	100,72.5
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

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Lamp Flux:2011.9x1 lm

NAME: 2118.192-LEA-15

TYPE:

WEIGHT:

SPEC.: 3000K

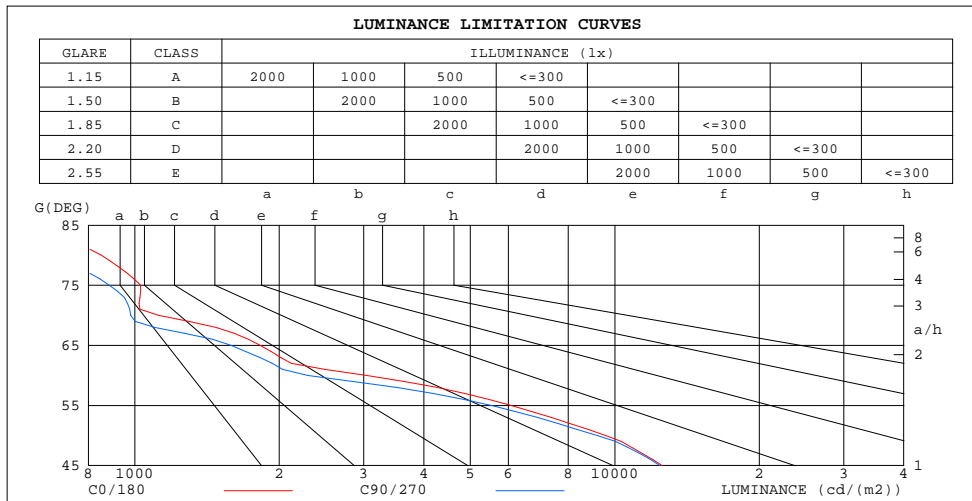
DIM.:

SERIAL No.: 2307140899

MFR.: RISE

SUR.: 0.0063585m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	597	394
80	851	691
75	1028	884
70	1120	981
65	1826	1588
60	3046	2294
55	6097	5552
50	9587	9213
45	12566	12428

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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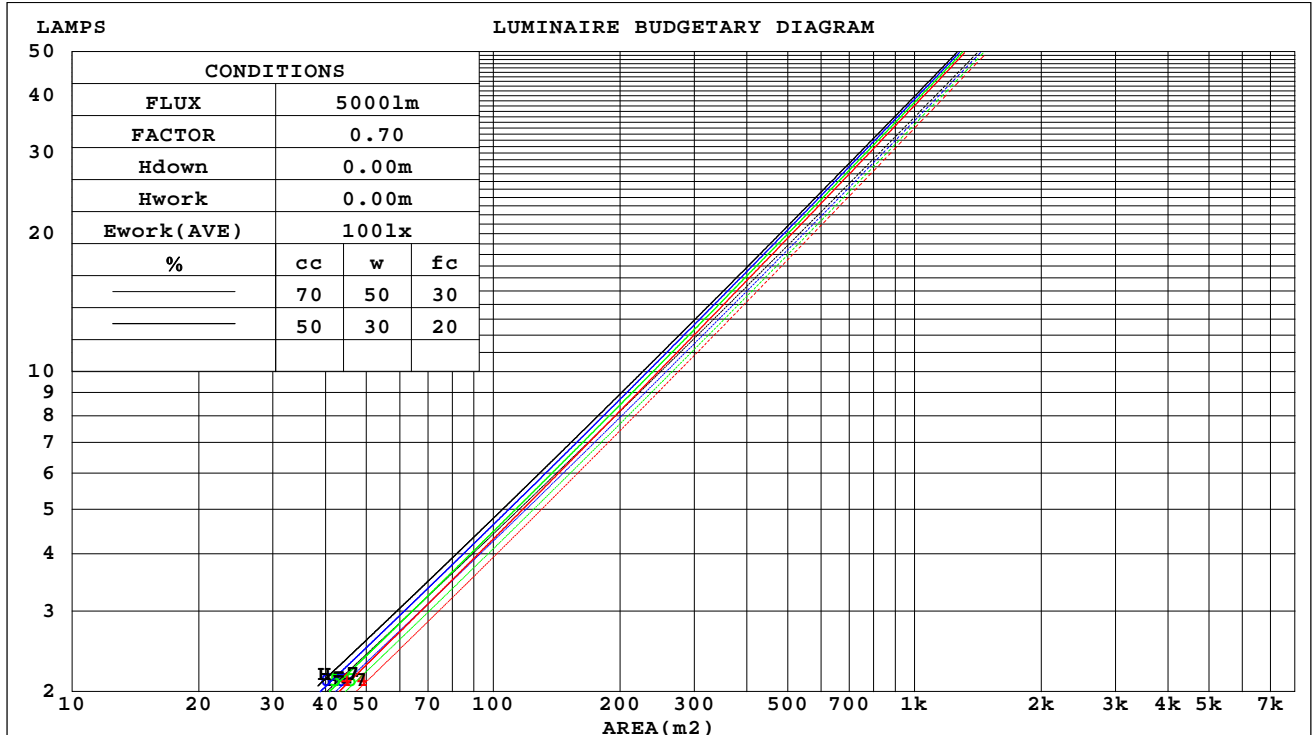
SERIAL No.: 2307140899

MFR.: RISE

SUR.: 0.0063585m2

Shielding Angle:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



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WEC AND CCEC

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SPEC.: 3000K	DIM.:	SERIAL No.: 2307140899
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

cc	80%			70%			50%			30%			10%			0	
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
fc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.101	.057	.018	.096	.055	.017	.087	.050	.016	.079	.046	.015	.071	.041	.013		
2.0	.094	.052	.016	.090	.050	.015	.083	.046	.014	.076	.043	.013	.070	.039	.012		
3.0	.088	.047	.014	.084	.045	.014	.078	.042	.013	.073	.040	.012	.067	.037	.012		
4.0	.082	.043	.013	.079	.042	.012	.074	.039	.012	.069	.037	.011	.065	.035	.011		
5.0	.077	.039	.011	.075	.038	.011	.070	.037	.011	.066	.035	.010	.062	.033	.010		
6.0	.073	.037	.010	.071	.036	.010	.067	.034	.010	.063	.033	.010	.060	.032	.009		
7.0	.069	.034	.010	.067	.033	.010	.064	.032	.009	.061	.031	.009	.058	.030	.009		
8.0	.066	.032	.009	.064	.032	.009	.061	.031	.009	.058	.030	.009	.056	.029	.008		
9.0	.062	.030	.008	.061	.030	.008	.058	.029	.008	.056	.028	.008	.054	.027	.008		
10.0	.060	.029	.008	.058	.028	.008	.056	.027	.008	.054	.027	.008	.052	.026	.007		

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.138	.138	.138	.118	.118	.118	.081	.081	.081	.046	.046	.046	.015	.015	.015	
1.0	.122	.114	.107	.105	.098	.092	.072	.067	.064	.041	.039	.037	.013	.013	.012	
2.0	.109	.096	.085	.094	.083	.074	.064	.057	.051	.037	.033	.030	.012	.011	.010	
3.0	.098	.082	.069	.084	.071	.060	.058	.049	.042	.033	.029	.025	.011	.009	.008	
4.0	.089	.071	.057	.077	.061	.049	.053	.043	.035	.031	.025	.021	.010	.008	.007	
5.0	.082	.062	.048	.070	.054	.041	.048	.038	.029	.028	.022	.017	.009	.007	.006	
6.0	.075	.055	.040	.065	.048	.035	.045	.033	.025	.026	.020	.015	.008	.006	.005	
7.0	.070	.049	.034	.060	.042	.030	.041	.030	.021	.024	.018	.013	.008	.006	.004	
8.0	.065	.044	.030	.056	.038	.026	.039	.027	.018	.023	.016	.011	.007	.005	.004	
9.0	.061	.040	.026	.052	.035	.023	.036	.024	.016	.021	.014	.010	.007	.005	.003	
10.0	.057	.036	.023	.049	.032	.020	.034	.022	.014	.020	.013	.008	.006	.004	.003	

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2307140899		
MFR.: RISE					SUR.: 0.0063585m2			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	10.3	10.9	10.5	11.1	11.2	10.0	10.7	10.2	10.8	11.0
3H	10.2	10.8	10.4	11.0	11.2	9.9	10.5	10.2	10.7	10.9
4H	10.1	10.7	10.4	10.9	11.2	9.9	10.5	10.1	10.7	10.9
6H	10.1	10.6	10.4	10.9	11.1	9.8	10.4	10.1	10.6	10.8
8H	10.0	10.6	10.3	10.8	11.1	9.8	10.3	10.1	10.6	10.8
12H	10.0	10.5	10.3	10.8	11.1	9.7	10.2	10.0	10.5	10.8
4H 2H	10.2	10.7	10.4	11.0	11.2	9.9	10.5	10.2	10.7	10.9
3H	10.1	10.6	10.4	10.9	11.1	9.8	10.4	10.1	10.6	10.9
4H	10.0	10.5	10.4	10.8	11.1	9.8	10.3	10.1	10.5	10.8
6H	10.0	10.4	10.3	10.7	11.1	9.7	10.1	10.1	10.5	10.8
8H	9.9	10.3	10.3	10.7	11.0	9.7	10.1	10.1	10.4	10.8
12H	9.9	10.3	10.3	10.6	11.0	9.6	10.0	10.0	10.3	10.7
8H 4H	9.9	10.3	10.3	10.6	11.0	9.7	10.0	10.0	10.4	10.8
6H	9.8	10.2	10.3	10.6	11.0	9.6	9.9	10.0	10.3	10.7
8H	9.8	10.1	10.3	10.5	11.0	9.5	9.8	10.0	10.2	10.7
12H	9.8	10.0	10.2	10.4	10.9	9.5	9.7	9.9	10.2	10.6
12H 4H	9.9	10.2	10.3	10.6	11.0	9.6	10.0	10.0	10.3	10.7
6H	9.8	10.1	10.2	10.5	10.9	9.5	9.8	10.0	10.2	10.7
8H	9.8	10.0	10.2	10.4	10.9	9.5	9.7	9.9	10.2	10.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.7 / - 3.4					+ 1.9 / - 4.1				
1.5H	+ 1.8 / - 2.0					+ 1.9 / - 2.5				
2.0H	+ 3.6 / - 5.5					+ 3.9 / - 6.0				

CIE Pub.117, 2012 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.4)
Area: 0.0063585 m2

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UTILIZATION FACTORS TABLE

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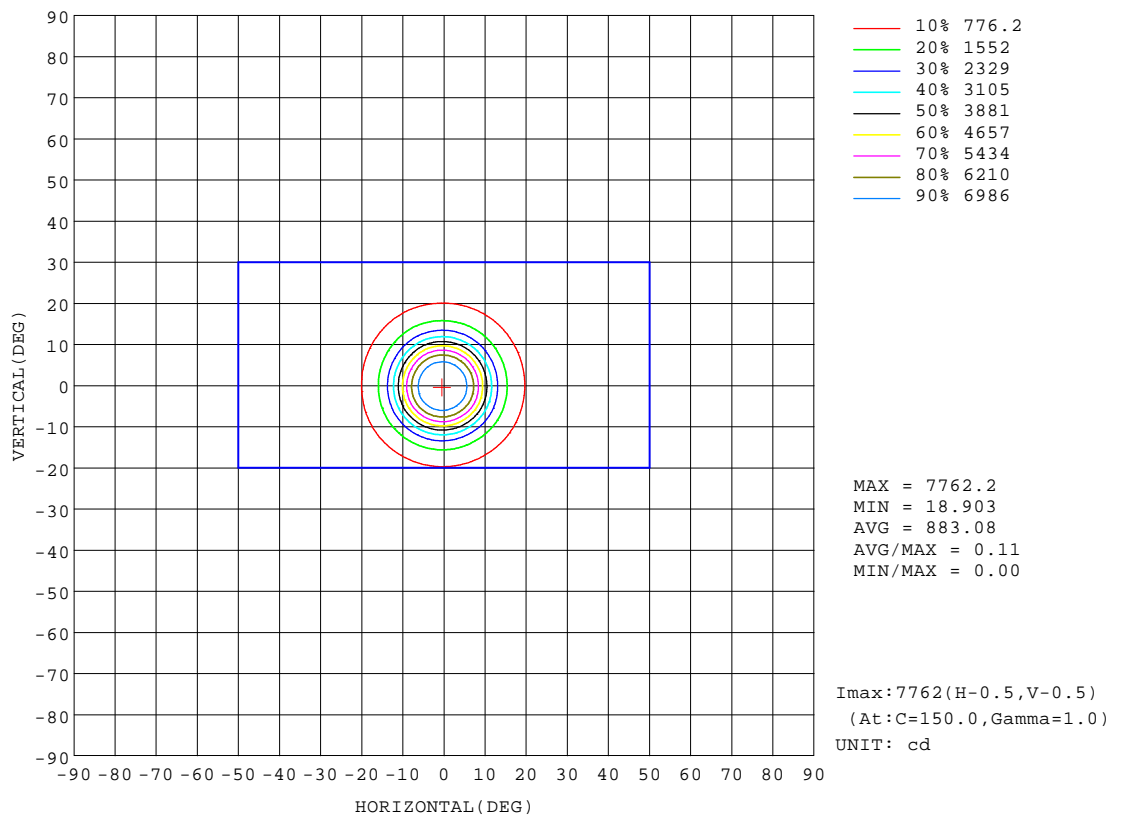
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	64	60	57	64	60	57	63	59	57	54
0.80	69	65	63	69	65	63	68	65	62	60
1.00	73	69	66	72	68	66	71	68	65	63
1.25	75	72	69	75	71	69	73	70	68	65
1.50	77	74	72	76	73	71	75	72	70	67
2.00	79	76	74	78	75	73	76	74	72	69
2.50	80	78	75	79	77	75	77	75	73	69
3.00	81	79	77	80	78	76	78	76	75	70
4.00	83	81	79	81	80	78	79	77	76	71
5.00	84	82	81	82	81	80	79	78	77	72
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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ISOCANDELA DIAGRAM

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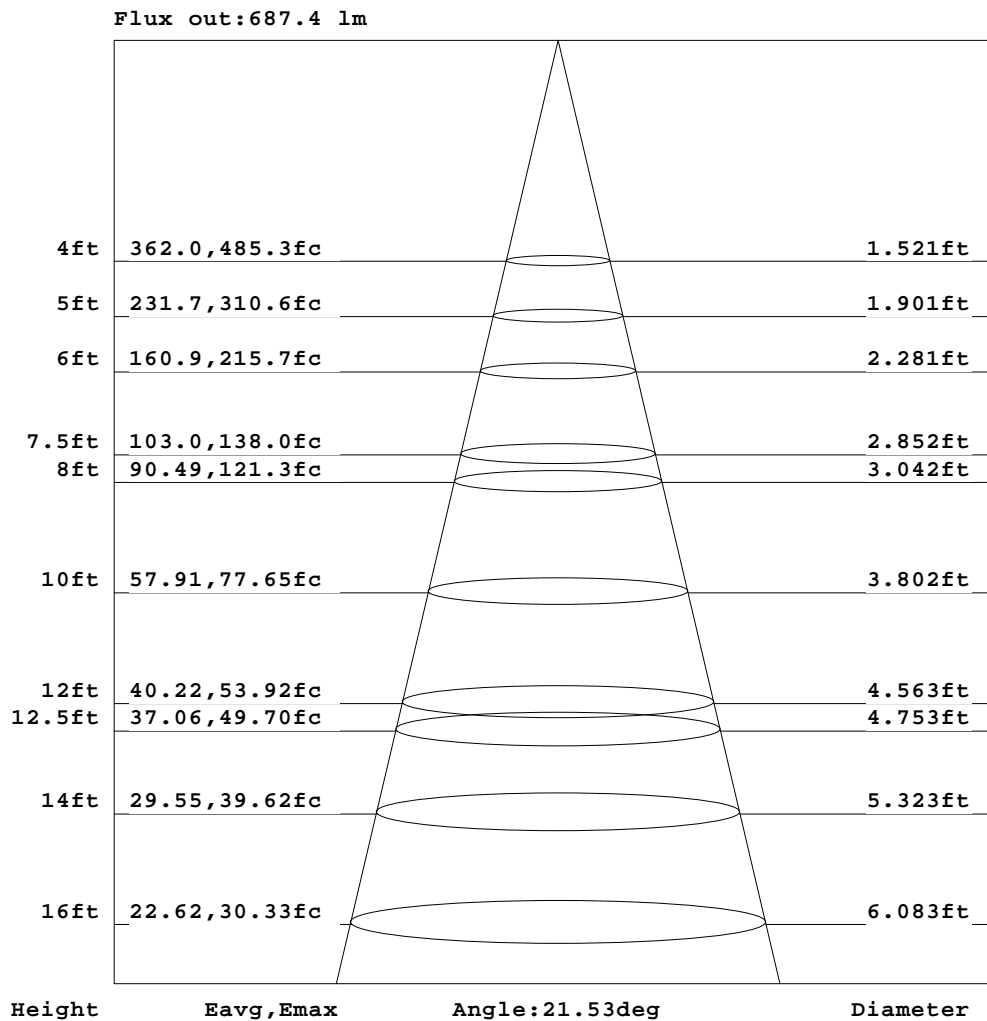


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AAI Figure

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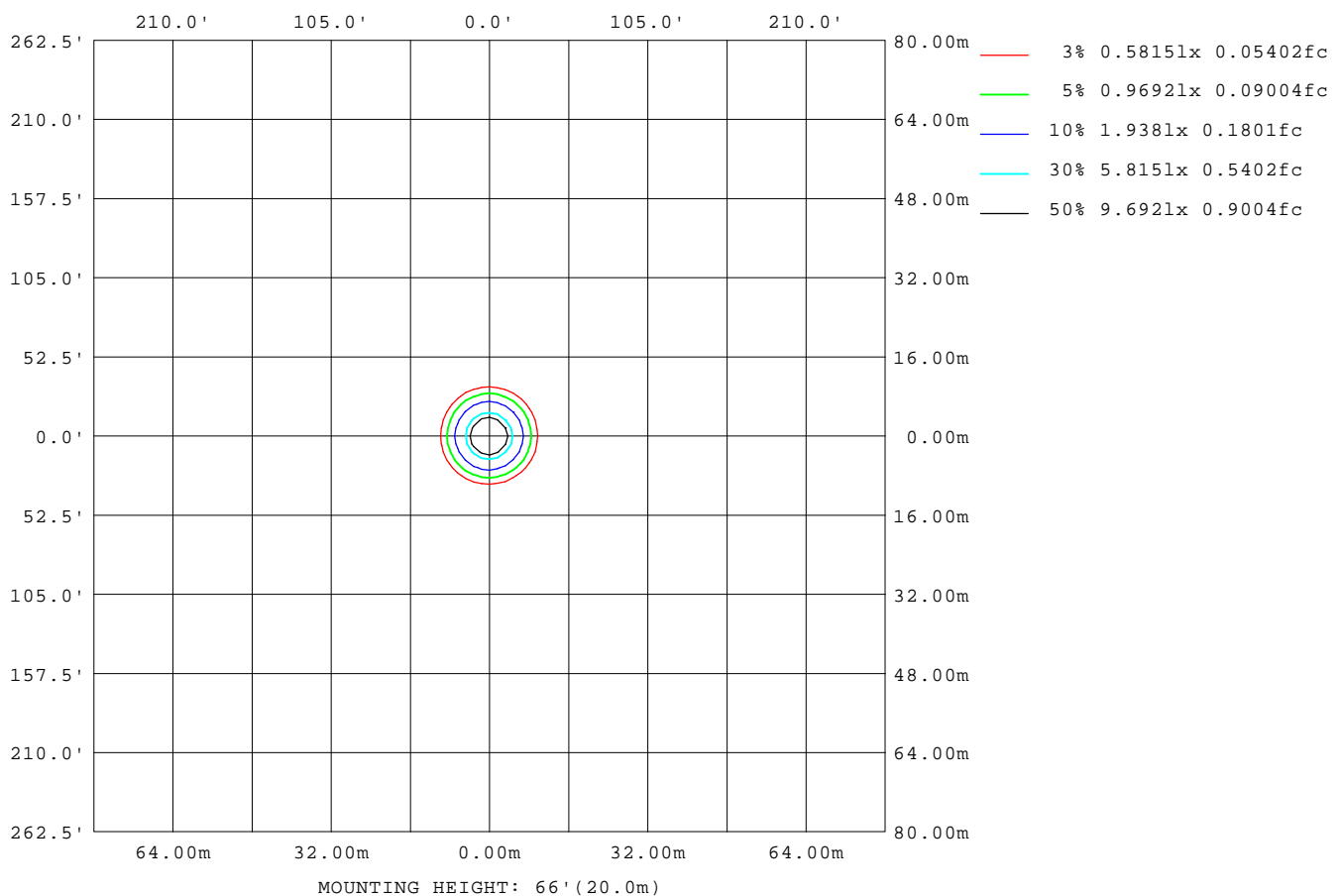
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS:PM-1083-007 15R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

LED Avg.L Report

Test:U:120.07V I:0.1618A P:19.330W PF:0.9937 Freq:59.98Hz Lamp Flux:2011.9x1 lm		
NAME: 2118.192-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307140899
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

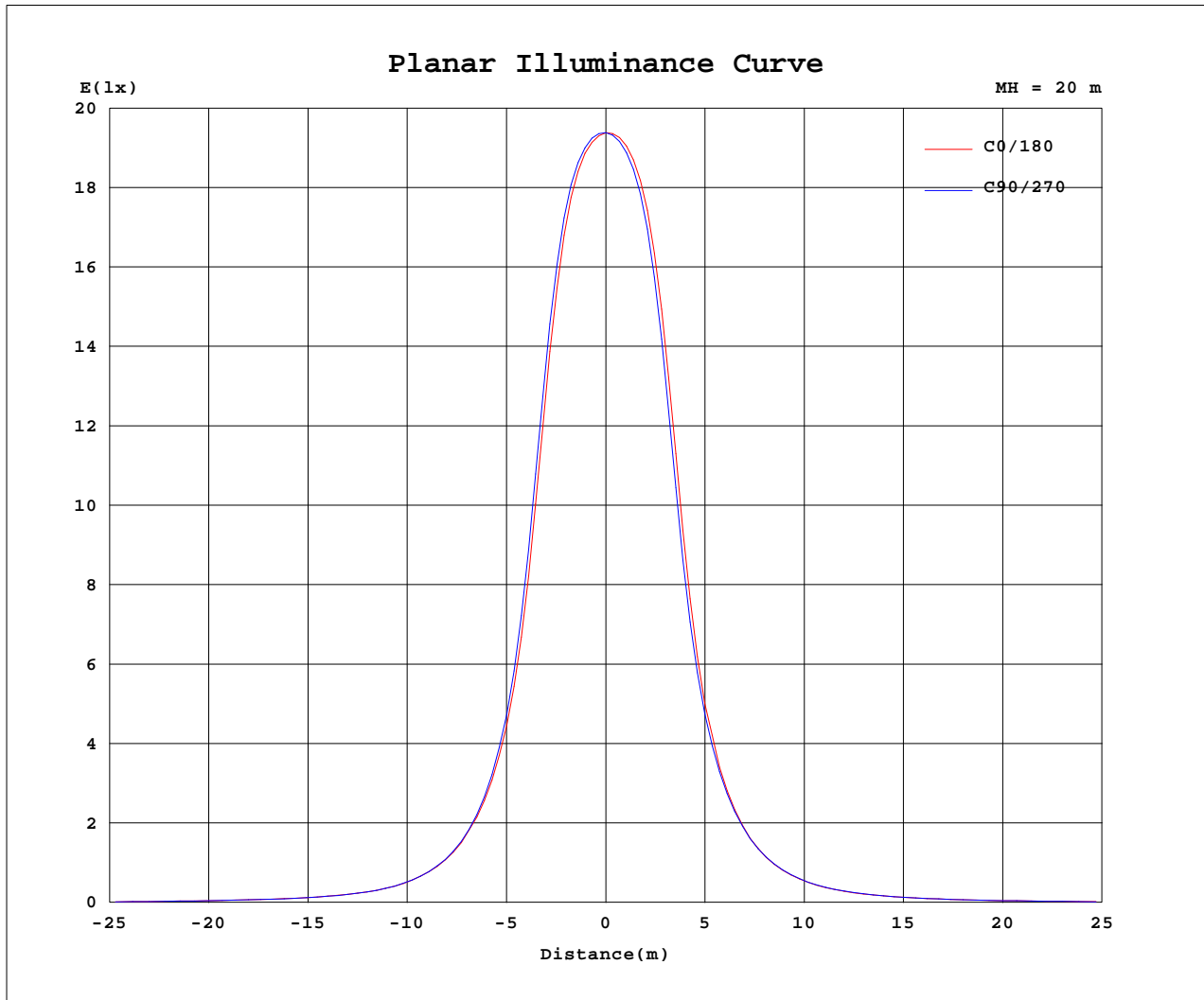
AvgL	cd/m2
L_0~180(65)av	1933
L_0~180(75)av	1035
L_0~180(85)av	710
L_90~270(65)av	1609
L_90~270(75)av	850
L_90~270(85)av	344
L_45(65)av	1813
L_45(75)av	932
L_45(85)av	437

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-7-14

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS:PM-1083-007 15R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: zoe
 Test Date: 2023-7-14

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: BXRE-30G1000-A-83 Ra:90
 LENS: PM-1083-007 15R
 DRIVER: PUP20A-1WMC 500mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.07V I:0.1618A P:19.330W PF:0.9937 Freq:59.98Hz Lamp Flux:2011.9x1 lm		
NAME: 2118.192-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307140899
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

Table--1

UNIT: cd

C(DEC) (DEC)	0	30	60	90	120	150	180	210	240	270	300	330						
0	7756	7756	7756	7756	7756	7756	7756	7756	7756	7756	7756	7756						
5	7186	7231	7252	7312	7362	7391	7360	7309	7280	7222	7179	7157						
10	4208	4318	4366	4521	4661	4761	4736	4622	4550	4378	4245	4153						
15	1648	1680	1668	1735	1787	1875	1870	1812	1854	1756	1704	1640						
20	729	730	716	743	755	779	783	787	795	776	756	728						
25	357	355	348	359	364	374	375	374	383	380	373	359						
30	193	190	186	192	194	202	205	202	209	206	204	195						
35	117	116	115	117	118	122	124	123	127	126	124	120						
40	78.7	77.8	77.1	78.0	79.2	80.8	81.9	82.3	84.1	83.6	82.5	80.0						
45	56.5	55.9	55.1	55.9	56.6	57.7	58.6	58.9	59.8	59.6	58.7	57.2						
50	39.2	39.4	37.6	37.7	39.2	41.4	41.7	41.6	40.2	39.5	40.2	39.4						
55	22.2	22.9	20.7	20.2	21.8	24.3	24.2	23.6	21.3	20.4	21.9	22.1						
60	9.69	10.4	7.62	7.30	8.77	11.6	11.5	10.9	7.70	7.29	8.57	9.62						
65	4.91	5.23	4.46	4.27	4.56	5.51	5.48	5.31	4.50	4.38	4.49	4.80						
70	2.44	2.56	2.14	2.13	2.16	2.83	2.86	2.65	1.98	1.96	1.98	2.30						
75	1.69	1.63	1.52	1.46	1.56	1.67	1.71	1.55	1.40	1.34	1.40	1.55						
80	0.94	0.92	0.81	0.76	0.84	0.98	1.07	0.88	0.74	0.69	0.73	0.83						
85	0.33	0.29	0.23	0.22	0.23	0.35	0.46	0.30	0.18	0.16	0.17	0.22						
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
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