

Luminaire Photograph



Light Output Ratio:	68.8%	
Luminaire Power:	17.3 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-7-13

γ Range: 0 - 180DEG
γ 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: BXRV-DR-1830G-1000-K-23 Ra: 90
LENS: PM-1096B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

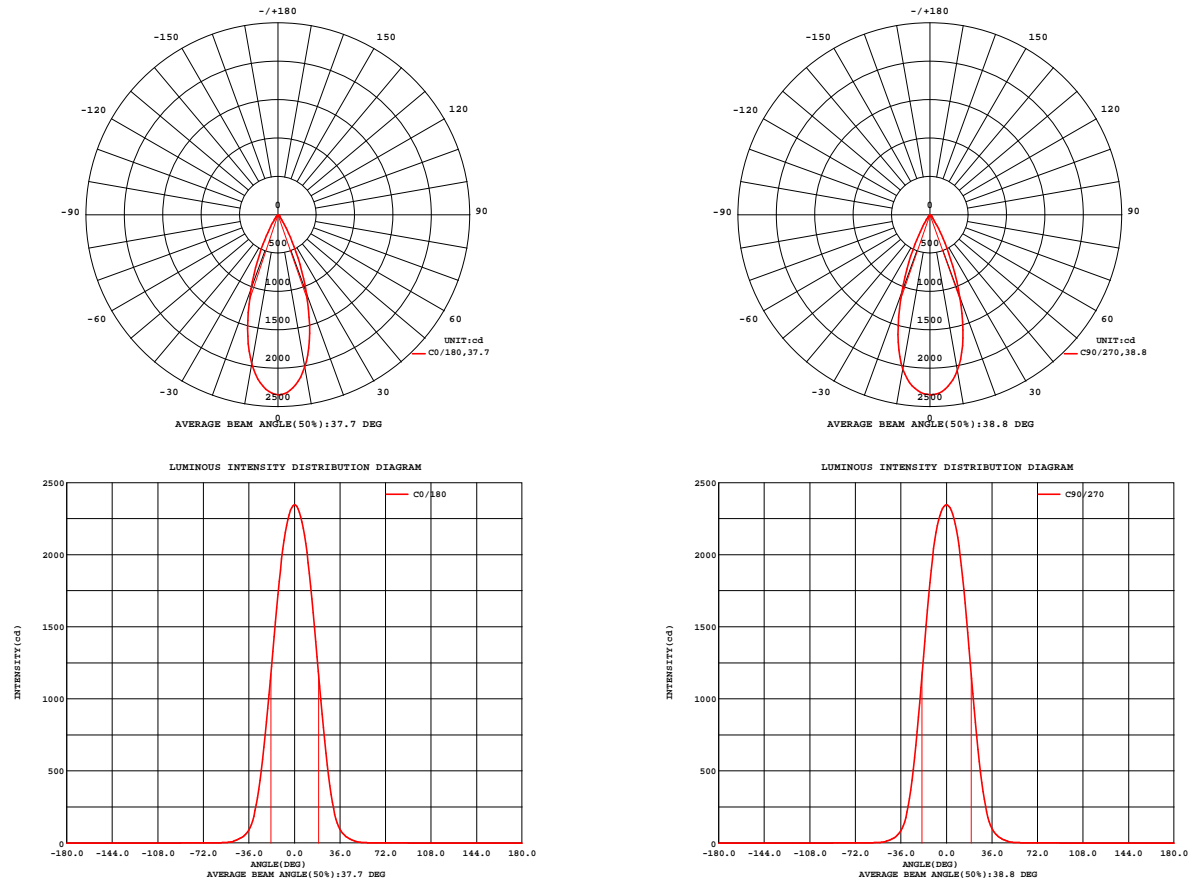


Fig. C0/C180

Fig. C90/C270

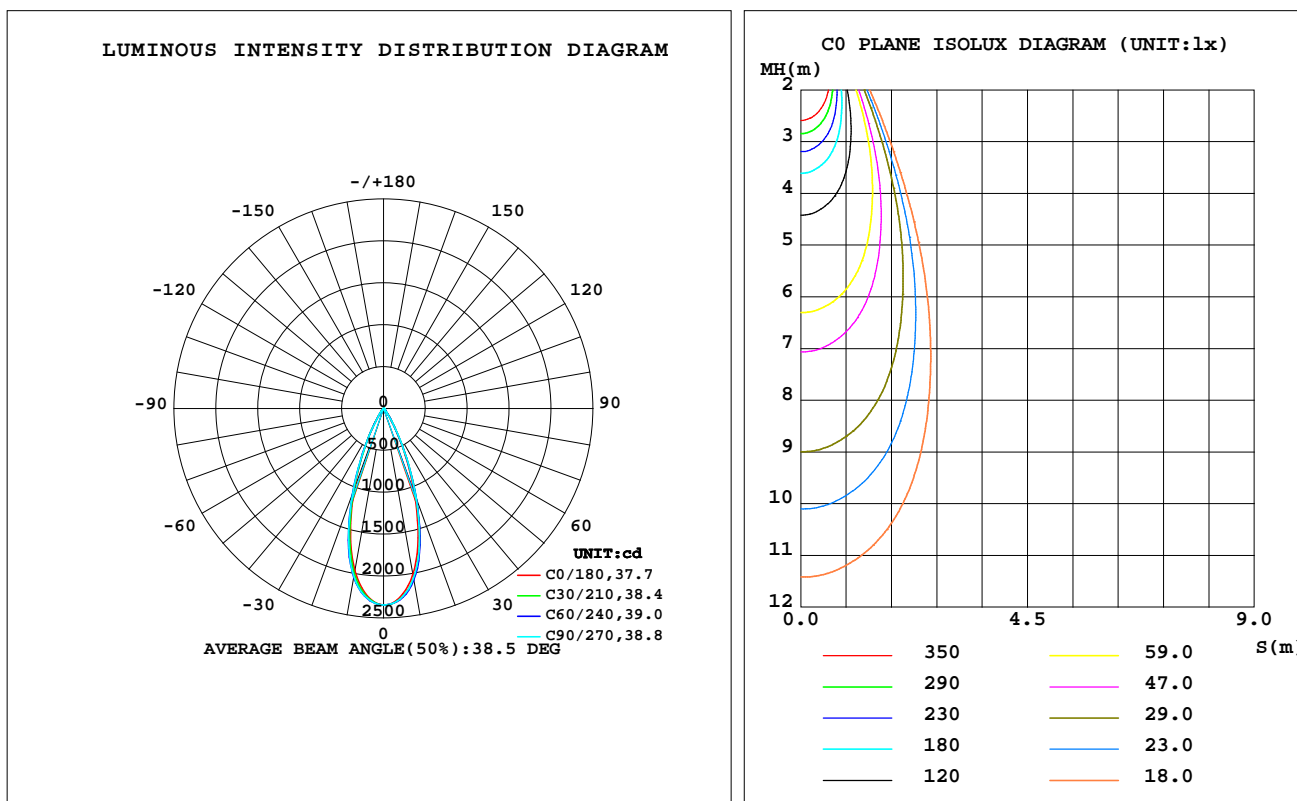
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.08V I:0.1449A P:17.296W PF:0.9932 Freq:59.98Hz Lamp Flux:1493.63x1 lm		
NAME: 2118.193-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307130897
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 59.43 lm/W			
MODEL	Bridgelux	I _{max} (cd)	2345	S/MH(C0/180)	0.60
NOMINAL POWER(W)	17	LOR(%)	68.8	S/MH(C90/270)	0.61
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1027.9	η UP,DN(C0-180)	0.0,35.2
NOMINAL FLUX(lm)	1493.63	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,33.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	η down(%)	68.8	CIBSE SHR MAX	0.65



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2014	2073	2061	1989	1971	2027	2042	2002	0- 10	208.5	208.5	20.3,14
20	1089	1149	1140	1062	1028	1063	1078	1064	10- 20	434.7	643.2	62.6,43.1
30	282.9	304.4	302.1	280.8	265.4	263.5	257.4	264.6	20- 30	282.8	926.0	90.1,62
40	51.70	55.95	53.44	50.54	48.65	46.83	43.83	46.35	30- 40	78.97	1005	97.8,67.3
50	6.818	7.703	7.360	7.137	6.972	6.397	5.733	5.993	40- 50	18.60	1024	99.6,68.5
60	1.704	1.793	1.753	1.743	1.709	1.640	1.581	1.576	50- 60	3.082	1027	99.9,68.7
70	0.4708	0.5153	0.5629	0.5813	0.5907	0.5678	0.5308	0.4710	60- 70	0.9679	1028	100,68.8
80	0.0777	0.0648	0.0418	0.0879	0.1544	0.0834	0.0404	0.0608	70- 80	0.2879	1028	100,68.8
90	0	0	0	0	0	0	0	0	80- 90	0.0254	1028	100,68.8
100	0	0	0	0	0	0	0	0	90-100	0	1028	100,68.8
110	0	0	0	0	0	0	0	0	100-110	0	1028	100,68.8
120	0	0	0	0	0	0	0	0	110-120	0	1028	100,68.8
130	0	0	0	0	0	0	0	0	120-130	0	1028	100,68.8
140	0	0	0	0	0	0	0	0	130-140	0	1028	100,68.8
150	0	0	0	0	0	0	0	0	140-150	0	1028	100,68.8
160	0	0	0	0	0	0	0	0	150-160	0	1028	100,68.8
170	0	0	0	0	0	0	0	0	160-170	0	1028	100,68.8
180	0	0	0	0	0	0	0	0	170-180	0	1028	100,68.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

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Lamp Flux:1493.63x1 lm

NAME: 2118.193-LEA-15-DW

TYPE:

WEIGHT:

SPEC.: 3000K

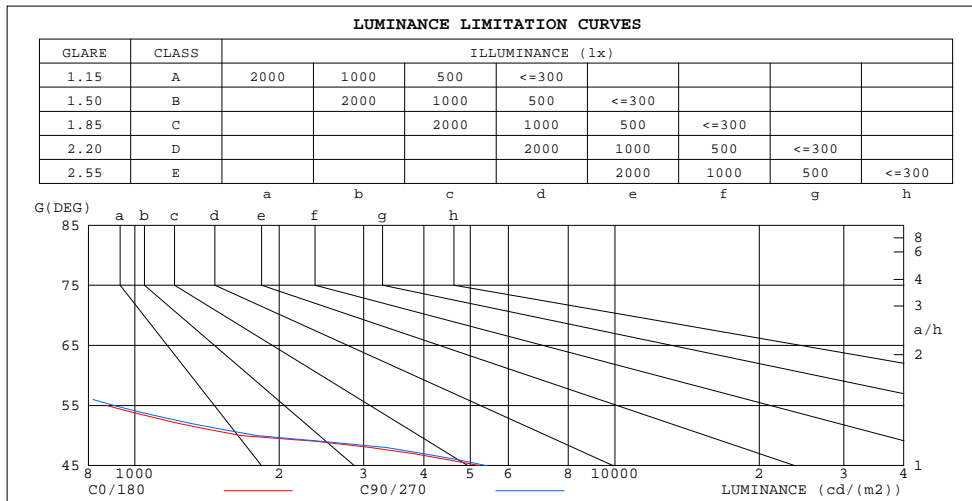
DIM.:

SERIAL No.: 2307130897

MFR.: RISE

SUR.: 0.0063585m2

Shielding Angle:



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K

DIM.:

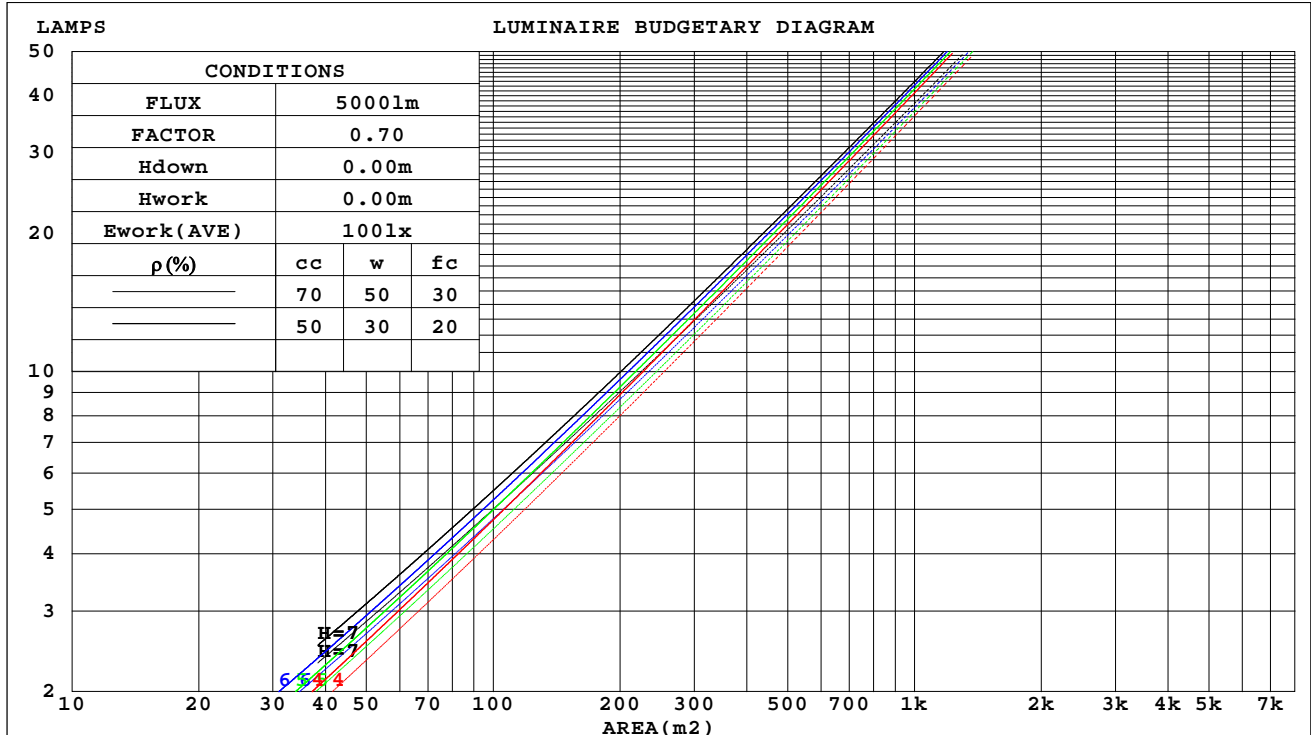
SERIAL No.: 2307130897

MFR.: RISE

SUR.: 0.0063585m2

Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{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.: 2307130897
MFR.: RISE	SUR.: 0.0063585m2	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	.105	.060	.019	.101	.057	.018	.092	.053	.017	.084	.049	.016	.077	.045	.014	
2.0	.099	.054	.017	.095	.052	.016	.088	.049	.015	.082	.046	.014	.076	.043	.013	
3.0	.093	.050	.015	.090	.048	.015	.084	.046	.014	.079	.043	.013	.074	.041	.013	
4.0	.088	.046	.014	.086	.045	.013	.081	.043	.013	.076	.041	.012	.071	.039	.012	
5.0	.084	.043	.012	.082	.042	.012	.077	.040	.012	.073	.039	.011	.069	.037	.011	
6.0	.080	.040	.011	.078	.039	.011	.074	.038	.011	.071	.037	.011	.067	.035	.011	
7.0	.076	.038	.011	.075	.037	.011	.071	.036	.010	.068	.035	.010	.065	.034	.010	
8.0	.073	.036	.010	.072	.035	.010	.069	.034	.010	.066	.033	.010	.063	.032	.009	
9.0	.070	.034	.009	.069	.034	.009	.066	.033	.009	.064	.032	.009	.061	.031	.009	
10.0	.067	.032	.009	.066	.032	.009	.064	.031	.009	.062	.031	.009	.059	.030	.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	.131	.131	.131	.112	.112	.112	.076	.076	.076	.044	.044	.044	.014	.014	.014		
1.0	.117	.108	.101	.100	.093	.087	.068	.064	.060	.039	.037	.035	.013	.012	.011		
2.0	.105	.091	.080	.090	.079	.069	.062	.054	.048	.036	.032	.028	.011	.010	.009		
3.0	.095	.078	.064	.082	.067	.056	.056	.047	.039	.032	.027	.023	.010	.009	.008		
4.0	.087	.068	.053	.075	.058	.046	.052	.041	.032	.030	.024	.019	.010	.008	.006		
5.0	.081	.059	.044	.069	.051	.038	.048	.036	.027	.028	.021	.016	.009	.007	.005		
6.0	.075	.053	.037	.065	.046	.032	.045	.032	.023	.026	.019	.013	.008	.006	.004		
7.0	.070	.047	.031	.061	.041	.027	.042	.029	.019	.024	.017	.011	.008	.006	.004		
8.0	.066	.043	.027	.057	.037	.023	.039	.026	.017	.023	.015	.010	.007	.005	.003		
9.0	.063	.039	.023	.054	.034	.020	.037	.024	.014	.022	.014	.009	.007	.005	.003		
10.0	.059	.036	.020	.051	.031	.018	.036	.022	.013	.021	.013	.008	.007	.004	.002		

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2307130897		
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	10.1	10.8	10.3	11.0	11.2	10.3	11.1	10.5	11.2	11.4
3H	9.9	10.6	10.2	10.8	11.0	10.1	10.8	10.4	11.0	11.2
4H	9.8	10.5	10.1	10.7	10.9	10.0	10.7	10.3	10.9	11.1
6H	9.8	10.4	10.0	10.6	10.9	10.0	10.6	10.2	10.8	11.1
8H	9.7	10.3	10.0	10.6	10.8	9.9	10.5	10.2	10.8	11.0
12H	9.7	10.3	10.0	10.5	10.8	9.9	10.5	10.2	10.7	11.0
4H 2H	9.8	10.5	10.1	10.7	10.9	10.0	10.7	10.3	10.9	11.2
3H	9.7	10.3	10.0	10.5	10.8	9.9	10.5	10.2	10.7	11.0
4H	9.6	10.1	9.9	10.4	10.7	9.8	10.3	10.1	10.6	10.9
6H	9.5	10.0	9.9	10.3	10.6	9.7	10.2	10.1	10.5	10.8
8H	9.4	9.9	9.8	10.2	10.6	9.6	10.1	10.0	10.4	10.8
12H	9.4	9.8	9.8	10.1	10.5	9.6	10.0	10.0	10.4	10.7
8H 4H	9.4	9.9	9.8	10.2	10.6	9.6	10.1	10.0	10.4	10.8
6H	9.3	9.7	9.7	10.1	10.5	9.5	9.9	9.9	10.3	10.7
8H	9.3	9.6	9.7	10.0	10.4	9.5	9.8	9.9	10.2	10.6
12H	9.2	9.5	9.7	9.9	10.4	9.4	9.7	9.9	10.1	10.6
12H 4H	9.4	9.8	9.8	10.1	10.5	9.6	10.0	10.0	10.4	10.7
6H	9.3	9.6	9.7	10.0	10.4	9.5	9.8	9.9	10.2	10.6
8H	9.2	9.5	9.7	9.9	10.4	9.4	9.7	9.9	10.1	10.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.2 / -12.8					+ 3.4 / -12.7				
1.5H	+ 5.4 / -10.5					+ 5.5 / -10.6				
2.0H	+ 6.8 / - 8.3					+ 6.9 / - 8.3				

CIE Pub.117, 1494 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.4)
Area: 0.0063585 m2

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UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

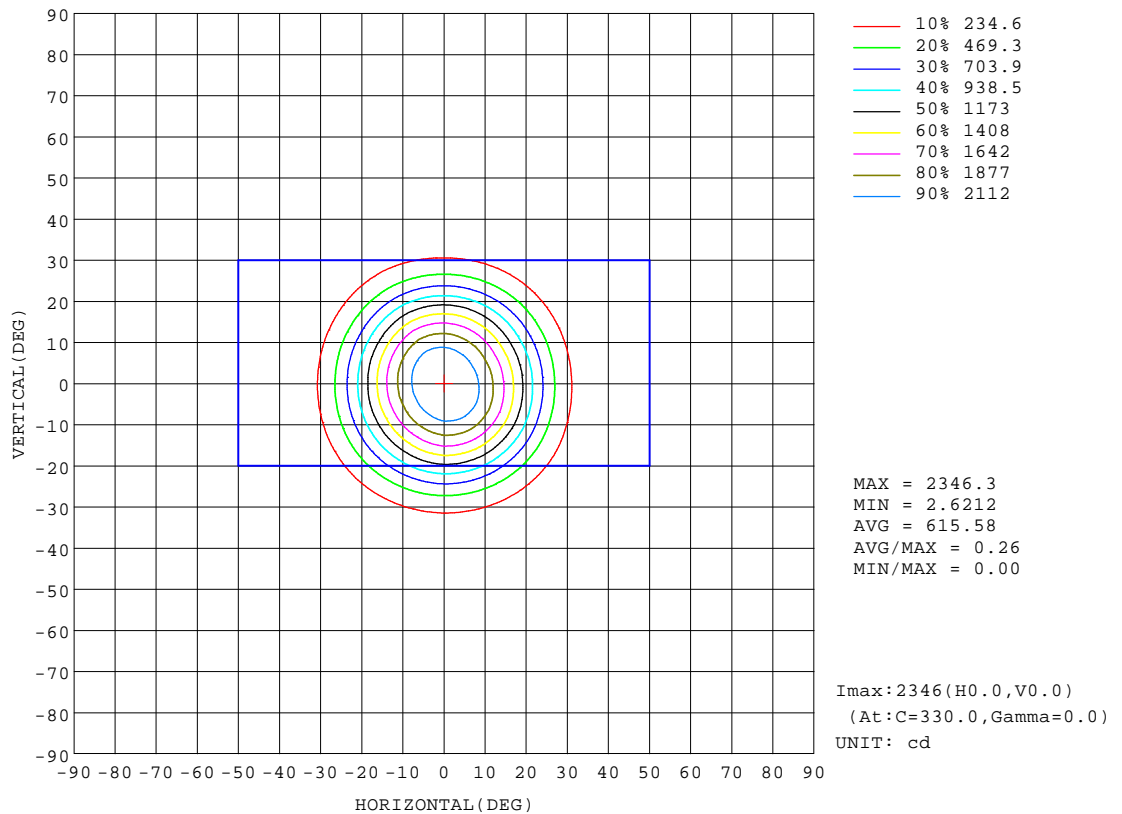
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	62	58	56	62	58	56	61	58	55	53
0.80	67	63	61	66	63	61	66	63	61	58
1.00	70	66	64	69	66	64	68	66	63	61
1.25	72	69	67	71	69	66	70	68	66	63
1.50	74	71	69	73	70	68	72	69	68	65
2.00	75	73	71	74	72	70	73	71	69	66
2.50	76	74	72	75	73	72	73	72	70	66
3.00	77	75	74	76	74	73	74	72	71	67
4.00	79	77	76	77	76	75	75	74	73	68
5.00	80	78	77	78	77	76	75	75	74	69
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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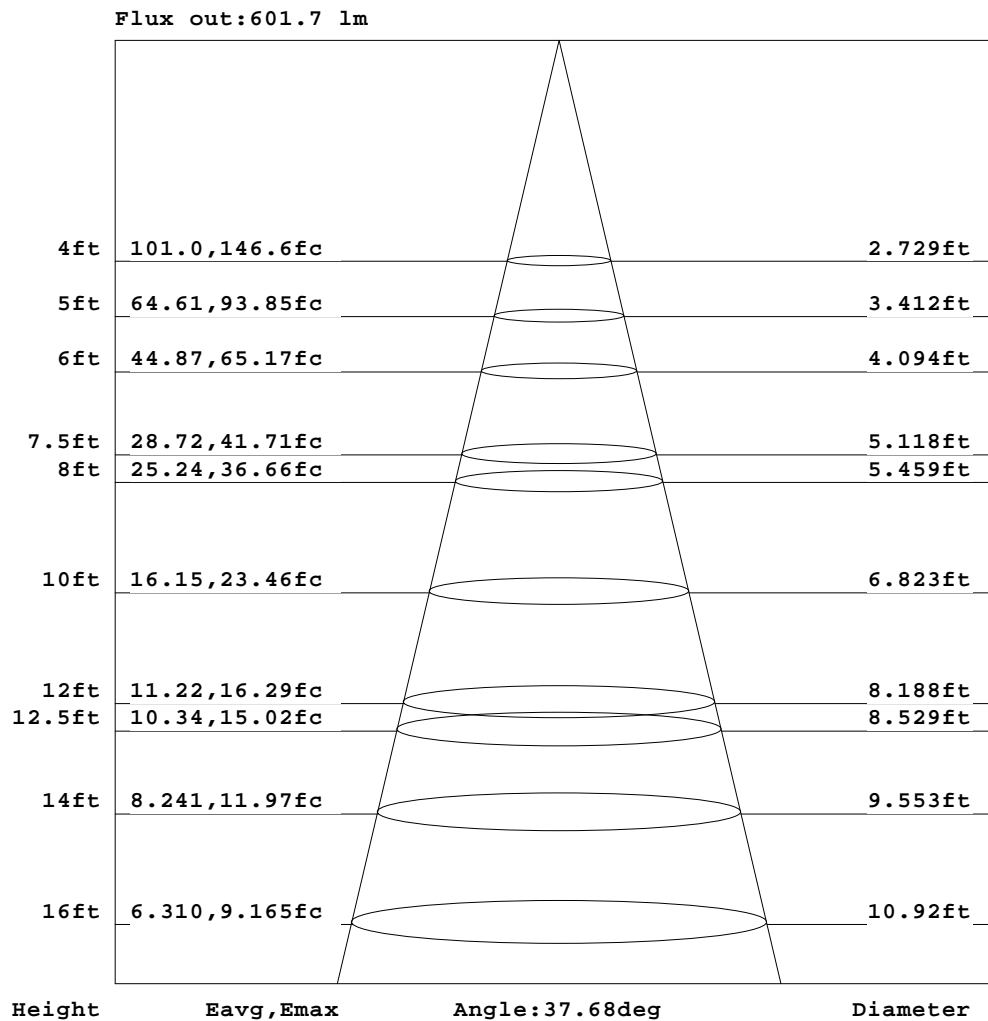


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AAI Figure

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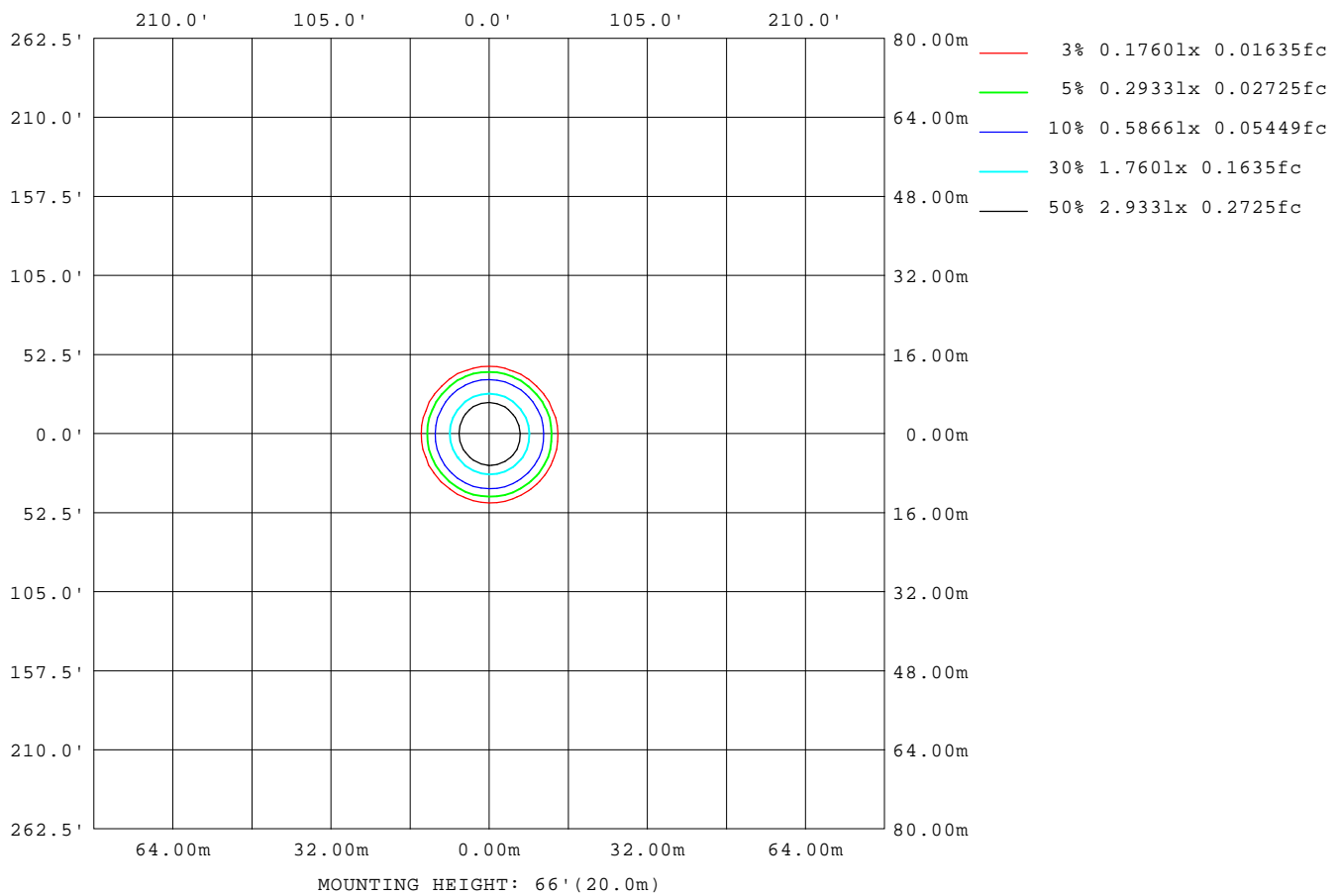
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRV-DR-1830G-1000-K-23 Ra:90
LENS: PM-1096B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

LED Avg.L Report

Test:U:120.08V I:0.1449A P:17.296W PF:0.9932 Freq:59.98Hz Lamp Flux:1493.63x1 lm		
NAME: 2118.193-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307130897
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

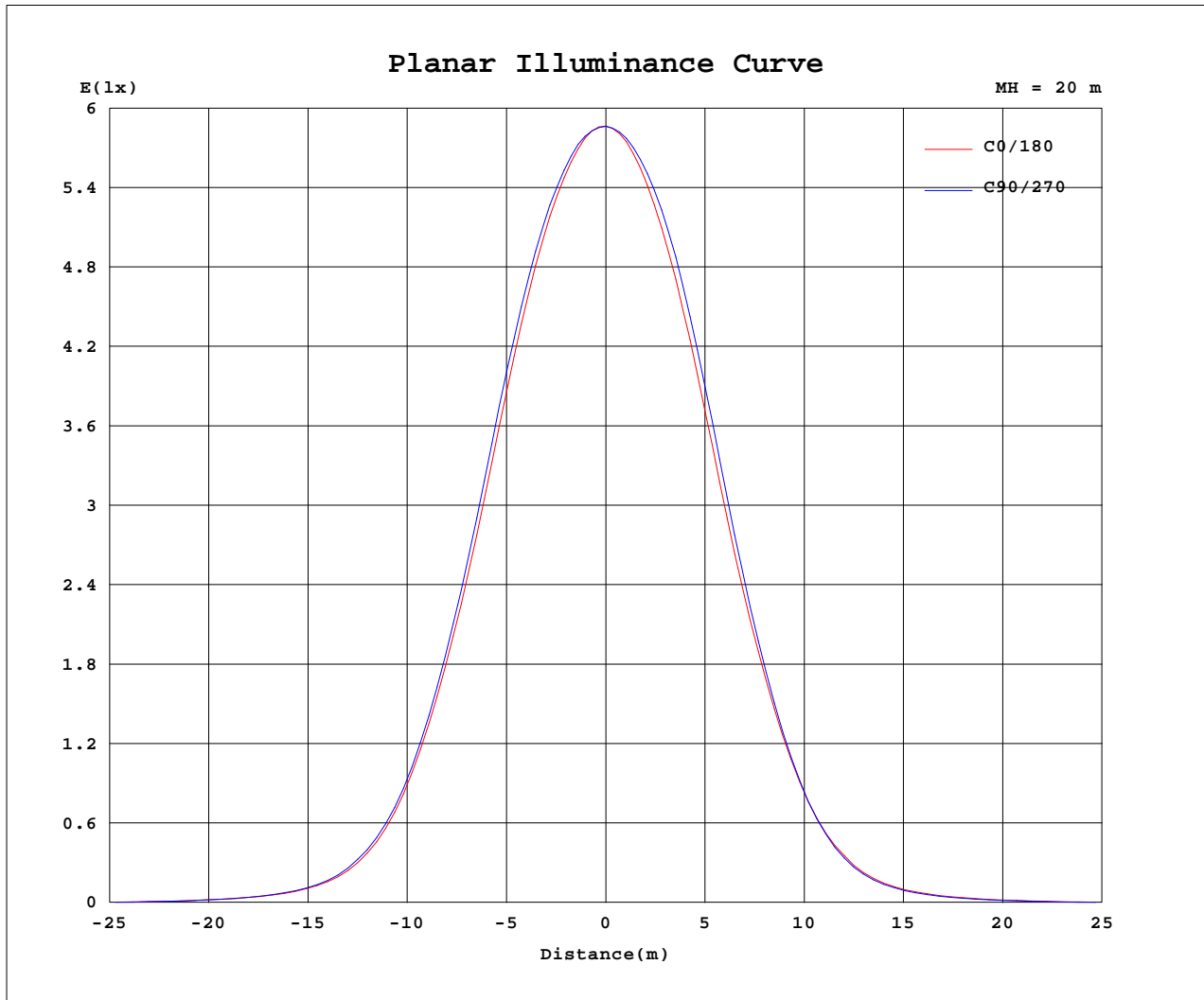
AvgL	cd/m2
L_0~180(65)av	338
L_0~180(75)av	175
L_0~180(85)av	42
L_90~270(65)av	337
L_90~270(75)av	129
L_90~270(85)av	35
L_45(65)av	336
L_45(75)av	158
L_45(85)av	20

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-7-13

γ Range: 0 - 180DEG
γ 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:BXRV-DR-1830G-1000-K-23 Ra:90
LENS: PM-1096B 36R
DRIVER: PUP20A-1WMC 450mA
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: 2023-7-13

γ Range: 0 - 180DEG
 γ 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: BXRV-DR-1830G-1000-K-23 Ra: 90
 LENS: PM-1096B 36R
 DRIVER: PUP20A-1WMC 450mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.08V I:0.1449A P:17.296W PF:0.9932 Freq:59.98Hz Lamp Flux:1493.63x1 lm		
NAME: 2118.193-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307130897
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2345	2345	2345	2345	2345	2345	2345	2345	2345	2345	2345	2345						
5	2262	2280	2288	2281	2258	2243	2243	2259	2274	2271	2260	2254						
10	2014	2064	2082	2061	2008	1970	1971	2007	2048	2042	2012	1993						
15	1597	1669	1684	1665	1589	1541	1533	1565	1626	1614	1588	1565						
20	1089	1143	1154	1140	1081	1044	1028	1041	1085	1078	1070	1058						
25	623	654	656	650	621	601	581	578	597	592	593	601						
30	283	304	305	302	286	276	265	261	266	257	261	268						
35	115	128	127	123	115	112	108	106	106	101	102	107						
40	51.7	56.3	55.6	53.4	51.0	50.0	48.7	47.3	46.3	43.8	45.1	47.6						
45	23.6	25.4	25.2	24.4	23.6	23.7	22.9	22.0	20.9	19.9	20.8	21.9						
50	6.82	7.30	8.11	7.36	7.14	7.13	6.97	6.65	6.15	5.73	5.85	6.13						
55	3.19	3.38	3.35	3.31	3.27	3.24	3.19	3.08	2.97	2.86	2.89	2.98						
60	1.70	1.80	1.79	1.75	1.74	1.74	1.71	1.66	1.62	1.58	1.56	1.59						
65	0.88	0.91	0.93	0.95	0.95	0.93	0.94	0.93	0.91	0.86	0.83	0.83						
70	0.47	0.50	0.53	0.56	0.58	0.58	0.59	0.58	0.56	0.53	0.49	0.46						
75	0.23	0.25	0.21	0.20	0.26	0.33	0.34	0.33	0.25	0.23	0.21	0.23						
80	0.08	0.09	0.04	0.04	0.05	0.13	0.15	0.12	0.05	0.04	0.04	0.08						
85	0.03	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02	0.00	0.01						
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
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