

Luminaire Photograph



Light Output Ratio:	46.6%	
Luminaire Power:	28.11 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: 2024-7-29

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-30G2000-C-83 Ra:90
LENS: PM-1083 15R
DRIVER: PUP40A-1WMC-850 700mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

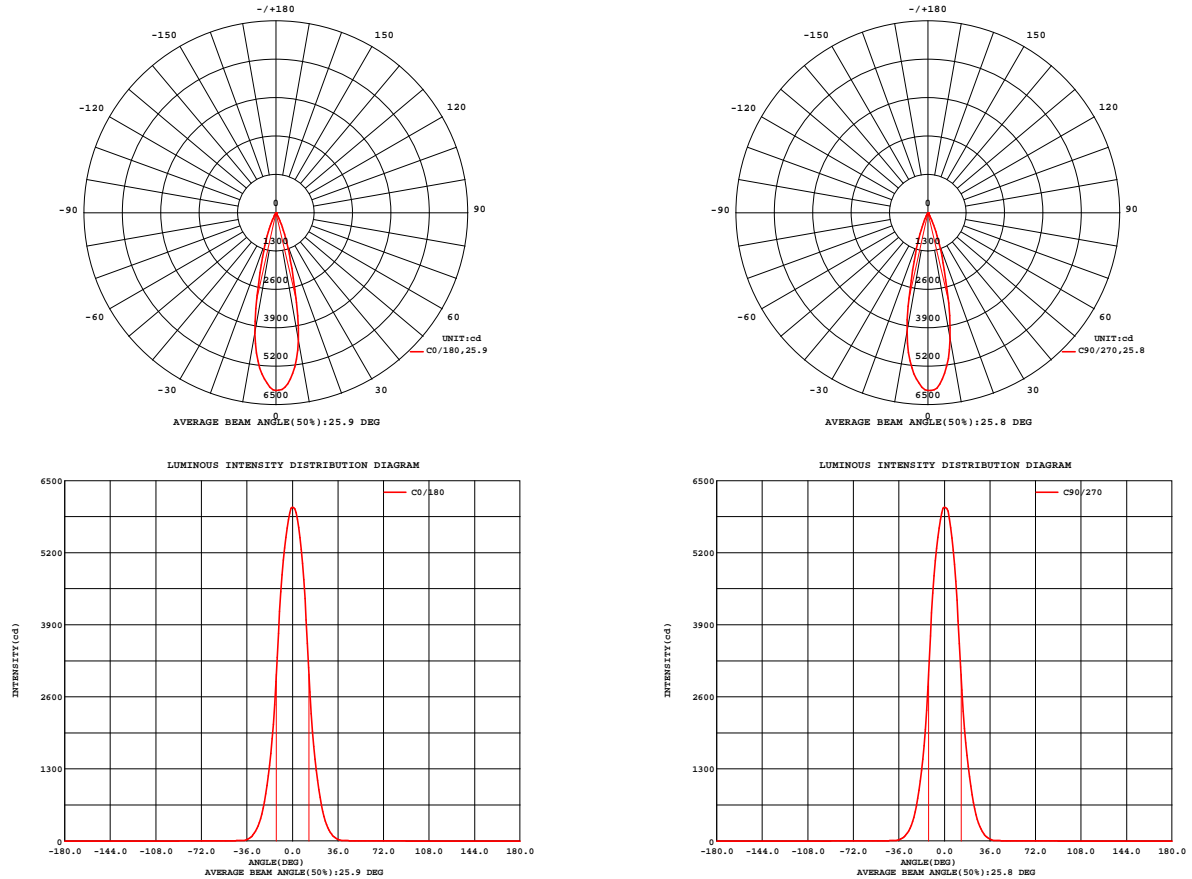


Fig. C0/C180

Fig. C90/C270

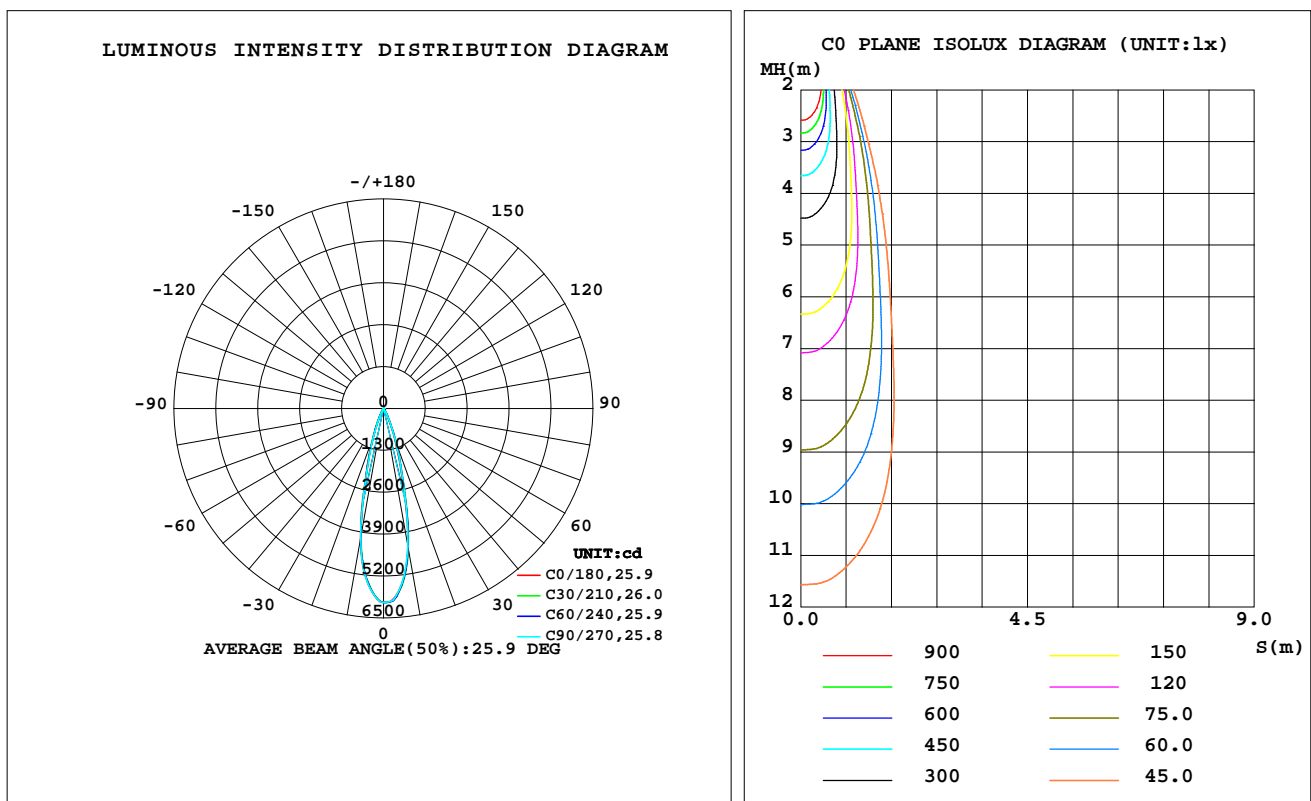
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.09V I:0.2360A P:28.112W PF:0.9906 Freq:59.98Hz Lamp Flux:2916.19x1 lm		
NAME: 2318.166-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 240729959
MFR.: RISE	SUR.: 0.001734065m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 48.34 lm/W			
MODEL	Bridgelux	I _{max} (cd)	6018	S/MH(C0/180)	0.42
NOMINAL POWER(W)	28	LOR(%)	46.6	S/MH(C90/270)	0.41
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1358.9	UP,DN(C0-180)	0.0,24.4
NOMINAL FLUX(lm)	2916.19	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,22.2
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	down(%)	46.6	CIBSE SHR MAX	0.30



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ZONAL FLUX DIAGRAM

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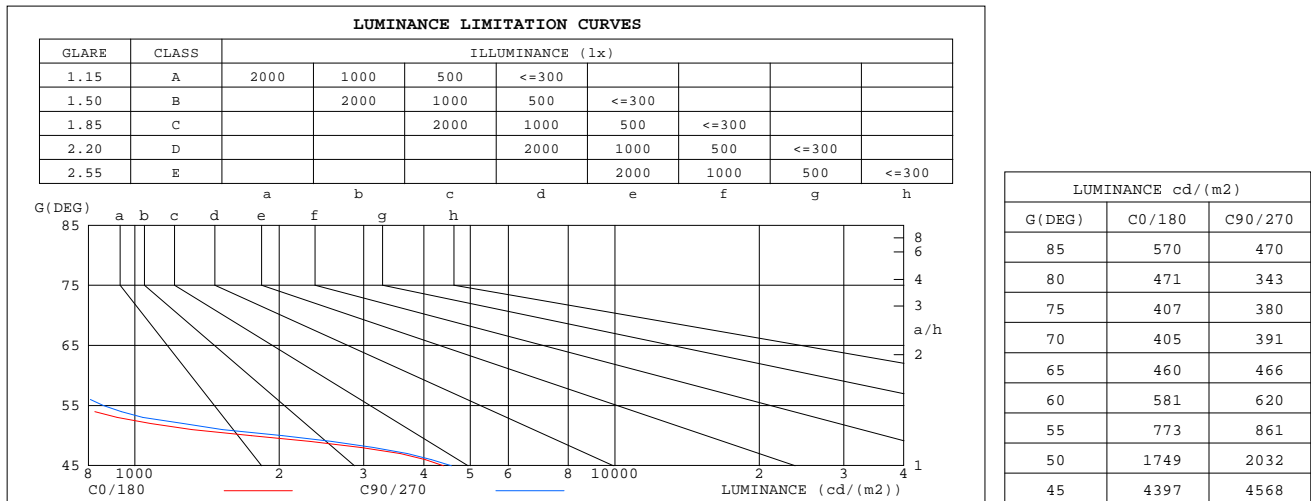
	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	4372	4432	4344	4223	4141	4075	4110	4232	0- 10	490.2	490.2	36.1,16.8
20	1092	1191	1157	1045	1004	957.2	912.8	960.2	10- 20	623.6	1114	82,38.2
30	155.6	179.9	170.9	150.2	140.4	124.9	115.8	128.1	20- 30	208.8	1323	97.3,45.4
40	9.241	9.893	9.194	9.034	8.523	7.726	7.812	8.083	30- 40	30.88	1354	99.6,46.4
50	1.948	2.770	2.265	2.078	1.697	1.387	1.356	1.579	40- 50	4.048	1358	99.9,46.6
60	0.5029	0.5403	0.5378	0.5258	0.5098	0.4604	0.4364	0.4452	50- 60	0.7785	1358	100,46.6
70	0.2402	0.2344	0.2317	0.2058	0.2339	0.2069	0.2012	0.2011	60- 70	0.3292	1359	100,46.6
80	0.1417	0.1233	0.1033	0.1121	0.1282	0.1014	0.1018	0.0944	70- 80	0.1679	1359	100,46.6
90	0	0	0	0	0	0	0	0	80- 90	0.0628	1359	100,46.6
100	0	0	0	0	0	0	0	0	90-100	0	1359	100,46.6
110	0	0	0	0	0	0	0	0	100-110	0	1359	100,46.6
120	0	0	0	0	0	0	0	0	110-120	0	1359	100,46.6
130	0	0	0	0	0	0	0	0	120-130	0	1359	100,46.6
140	0	0	0	0	0	0	0	0	130-140	0	1359	100,46.6
150	0	0	0	0	0	0	0	0	140-150	0	1359	100,46.6
160	0	0	0	0	0	0	0	0	150-160	0	1359	100,46.6
170	0	0	0	0	0	0	0	0	160-170	0	1359	100,46.6
180	0	0	0	0	0	0	0	0	170-180	0	1359	100,46.6
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.09V I:0.2360A P:28.112W PF:0.9906 Freq:59.98Hz Lamp Flux:2916.19x1 lm		
NAME: 2318.166-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 240729959
MFR.: RISE	SUR.: 0.001734065m2	Shielding Angle:



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

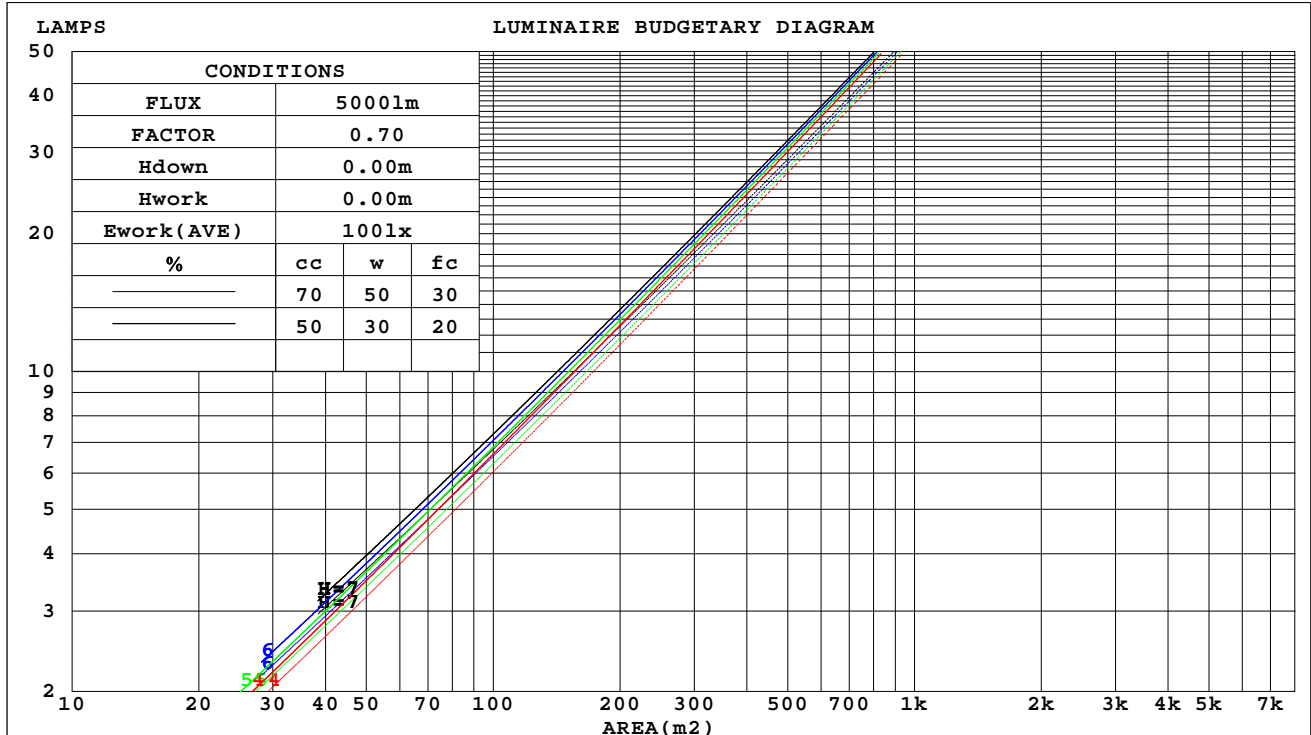
SERIAL No.: 240729959

MFR.: RISE

SUR.: 0.001734065m2

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.: 240729959
MFR.: RISE	SUR.: 0.001734065m2	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	.062	.035	.011	.059	.034	.011	.053	.031	.010	.048	.028	.009	.043	.025	.008	
2.0	.058	.032	.010	.055	.030	.009	.050	.028	.009	.046	.026	.008	.042	.024	.007	
3.0	.054	.029	.009	.052	.028	.008	.048	.026	.008	.044	.024	.007	.041	.022	.007	
4.0	.050	.026	.008	.048	.025	.007	.045	.024	.007	.042	.023	.007	.039	.021	.006	
5.0	.047	.024	.007	.046	.024	.007	.043	.022	.007	.040	.021	.006	.038	.020	.006	
6.0	.045	.022	.006	.043	.022	.006	.041	.021	.006	.039	.020	.006	.037	.019	.006	
7.0	.043	.021	.006	.041	.021	.006	.039	.020	.006	.037	.019	.006	.035	.018	.005	
8.0	.041	.020	.006	.040	.019	.006	.038	.019	.005	.036	.018	.005	.034	.018	.005	
9.0	.039	.019	.005	.038	.018	.005	.036	.018	.005	.035	.017	.005	.033	.017	.005	
10.0	.037	.018	.005	.036	.018	.005	.035	.017	.005	.034	.017	.005	.032	.016	.005	

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	.089	.089	.089	.076	.076	.076	.052	.052	.052	.030	.030	.030	.010	.010	.010	
1.0	.078	.073	.069	.067	.063	.059	.046	.043	.041	.026	.025	.024	.008	.008	.008	
2.0	.070	.062	.055	.060	.053	.048	.041	.037	.033	.024	.021	.019	.008	.007	.006	
3.0	.063	.053	.045	.054	.046	.039	.037	.032	.027	.021	.018	.016	.007	.006	.005	
4.0	.057	.046	.037	.049	.039	.032	.034	.027	.023	.019	.016	.013	.006	.005	.004	
5.0	.052	.040	.031	.045	.034	.027	.031	.024	.019	.018	.014	.011	.006	.005	.004	
6.0	.048	.035	.026	.041	.030	.023	.028	.021	.016	.016	.013	.010	.005	.004	.003	
7.0	.044	.031	.022	.038	.027	.019	.026	.019	.014	.015	.011	.008	.005	.004	.003	
8.0	.041	.028	.019	.035	.024	.017	.024	.017	.012	.014	.010	.007	.005	.003	.002	
9.0	.038	.026	.017	.033	.022	.015	.023	.016	.010	.013	.009	.006	.004	.003	.002	
10.0	.036	.023	.015	.031	.020	.013	.022	.014	.009	.013	.008	.005	.004	.003	.002	

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 240729959		
MFR.: RISE					SUR.: 0.001734065m2			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	5.3	6.0	5.5	6.1	6.3	5.6	6.2	5.8	6.4	6.5
3H	5.2	5.8	5.4	6.0	6.2	5.5	6.1	5.7	6.2	6.4
4H	5.1	5.7	5.4	5.9	6.1	5.4	6.0	5.6	6.2	6.4
6H	5.0	5.6	5.3	5.8	6.0	5.3	5.8	5.6	6.1	6.3
8H	5.0	5.5	5.3	5.8	6.0	5.3	5.8	5.6	6.0	6.3
12H	5.0	5.5	5.3	5.7	6.0	5.2	5.7	5.5	6.0	6.2
4H 2H	5.1	5.7	5.4	5.9	6.1	5.4	5.9	5.6	6.2	6.4
3H	4.9	5.4	5.3	5.7	6.0	5.2	5.7	5.5	6.0	6.2
4H	4.9	5.3	5.2	5.6	5.9	5.1	5.6	5.5	5.9	6.2
6H	4.8	5.2	5.1	5.5	5.8	5.0	5.4	5.4	5.8	6.1
8H	4.7	5.1	5.1	5.4	5.8	5.0	5.4	5.4	5.7	6.1
12H	4.7	5.0	5.1	5.4	5.8	4.9	5.3	5.3	5.6	6.0
8H 4H	4.7	5.1	5.1	5.4	5.8	5.0	5.4	5.4	5.7	6.1
6H	4.6	4.9	5.0	5.3	5.7	4.9	5.2	5.3	5.6	6.0
8H	4.5	4.8	5.0	5.2	5.7	4.8	5.1	5.3	5.5	5.9
12H	4.5	4.7	5.0	5.2	5.6	4.8	5.0	5.2	5.4	5.9
12H 4H	4.7	5.0	5.1	5.4	5.7	4.9	5.3	5.3	5.6	6.0
6H	4.5	4.8	5.0	5.2	5.7	4.8	5.1	5.3	5.5	5.9
8H	4.5	4.7	5.0	5.2	5.6	4.8	5.0	5.2	5.4	5.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 4.6 / - 8.2					+ 5.0 / - 8.8				
1.5H	+ 6.5 / - 7.8					+ 7.0 / - 8.3				
2.0H	+ 5.7 / - 4.5					+ 5.8 / - 4.8				

CIE Pub.117, 2916 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.7)
Area: 0.00173407 m2

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30minutes warm-up

UTILIZATION FACTORS TABLE

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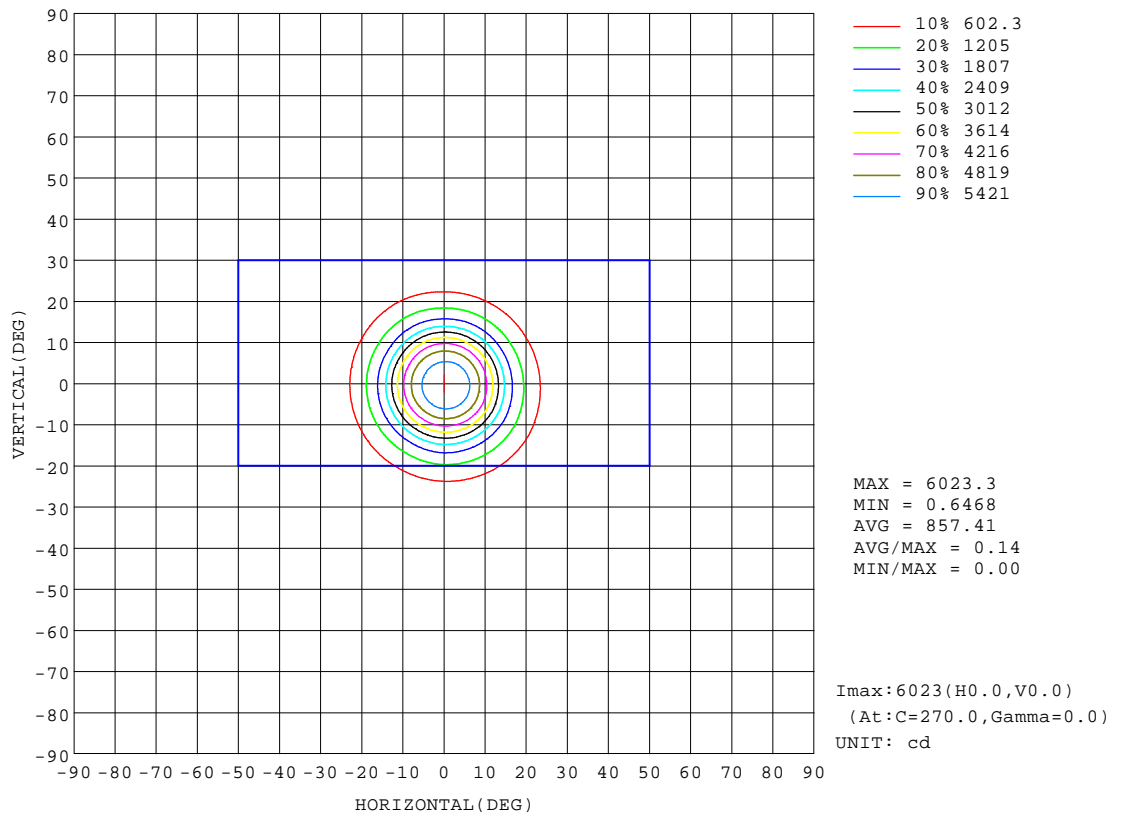
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	43	40	38	42	40	38	42	40	38	37
0.80	46	43	42	45	43	42	45	43	42	40
1.00	47	45	44	47	45	44	46	45	43	42
1.25	49	47	46	49	47	45	48	46	45	43
1.50	50	48	47	50	48	47	49	47	46	44
2.00	51	49	48	51	49	48	49	48	47	45
2.50	52	50	49	51	50	49	50	49	48	45
3.00	53	51	50	52	50	49	50	49	48	46
4.00	53	52	51	52	52	51	51	50	49	46
5.00	54	53	52	53	52	52	51	51	50	47
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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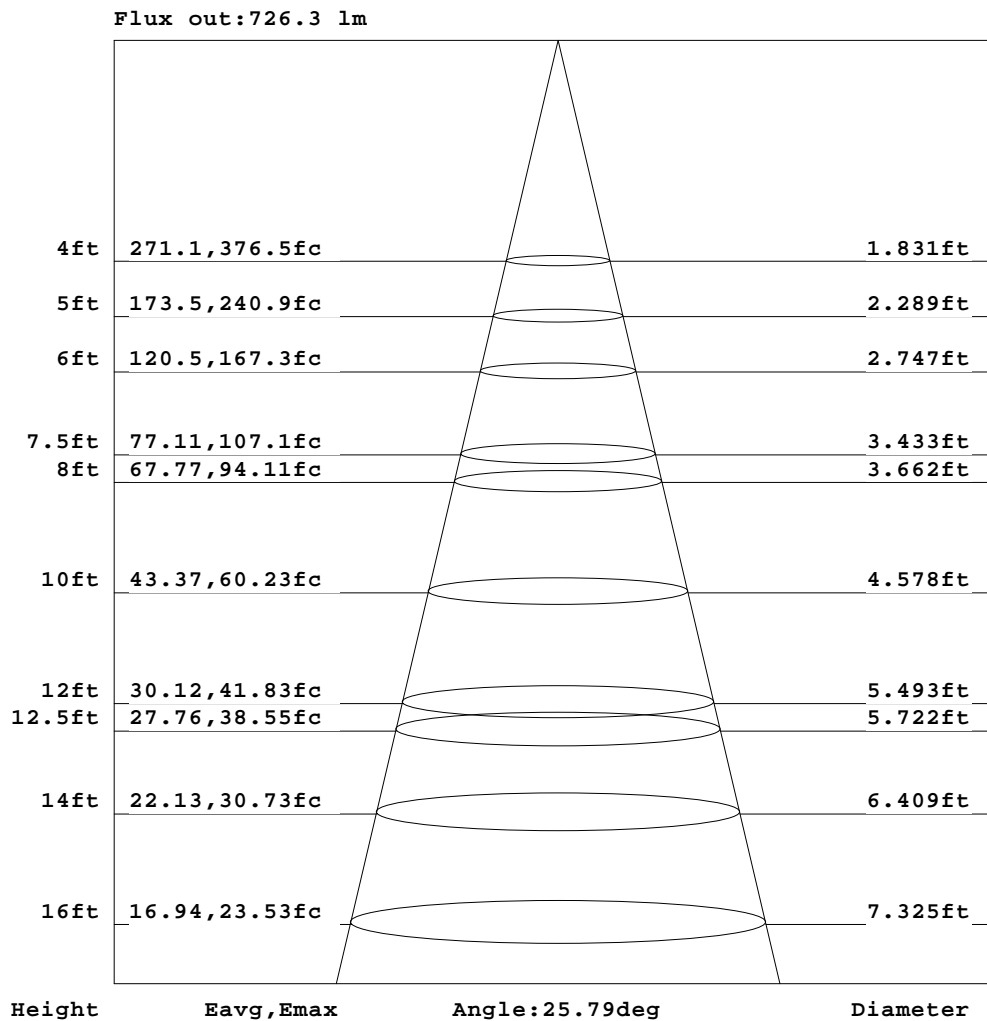


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AAI Figure

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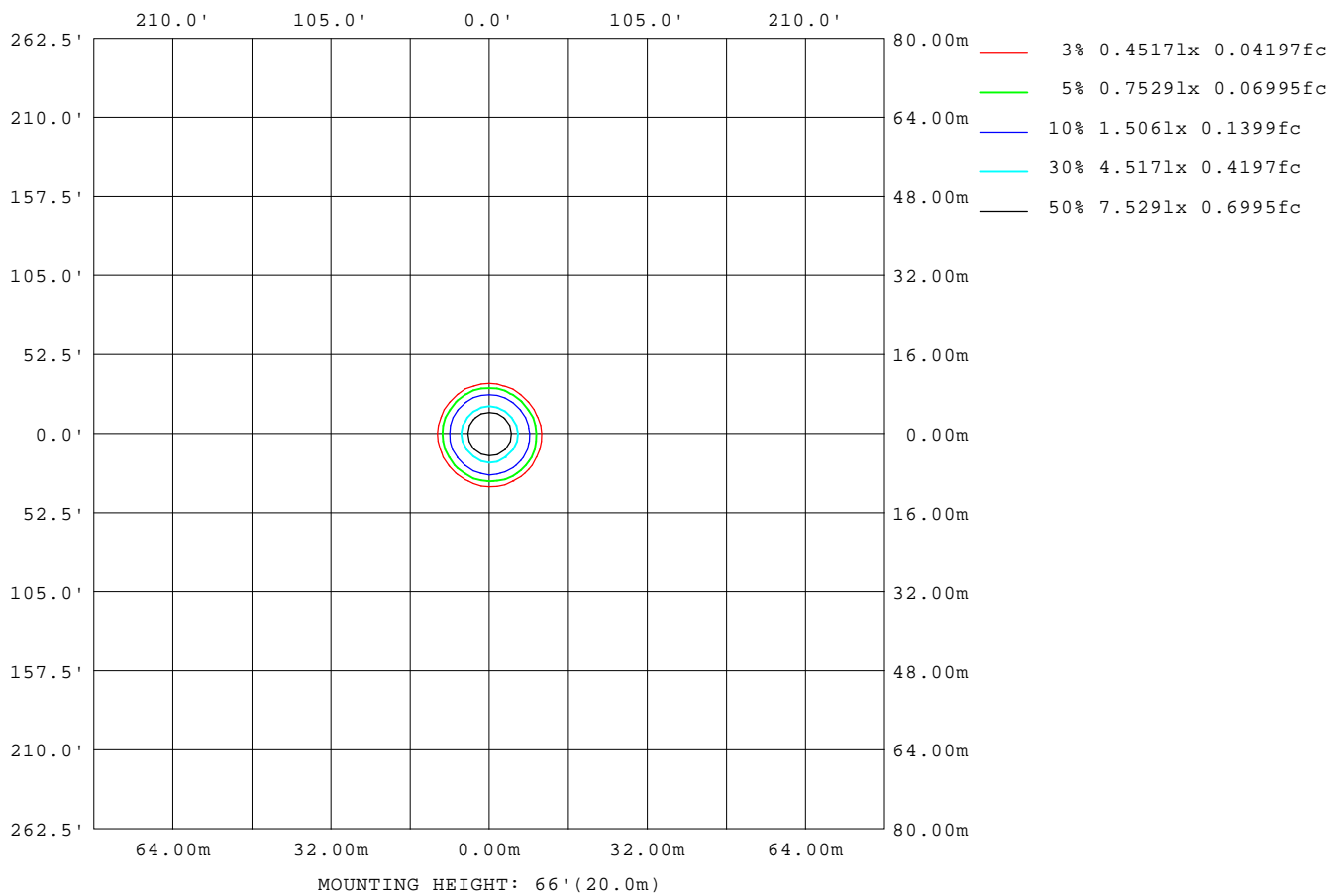
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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30minutes warm-up

LED Avg.L Report

Test:U:120.09V I:0.2360A P:28.112W PF:0.9906 Freq:59.98Hz Lamp Flux:2916.19x1 lm		
NAME: 2318.166-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 240729959
MFR.: RISE	SUR.: 0.001734065m2	Shielding Angle:

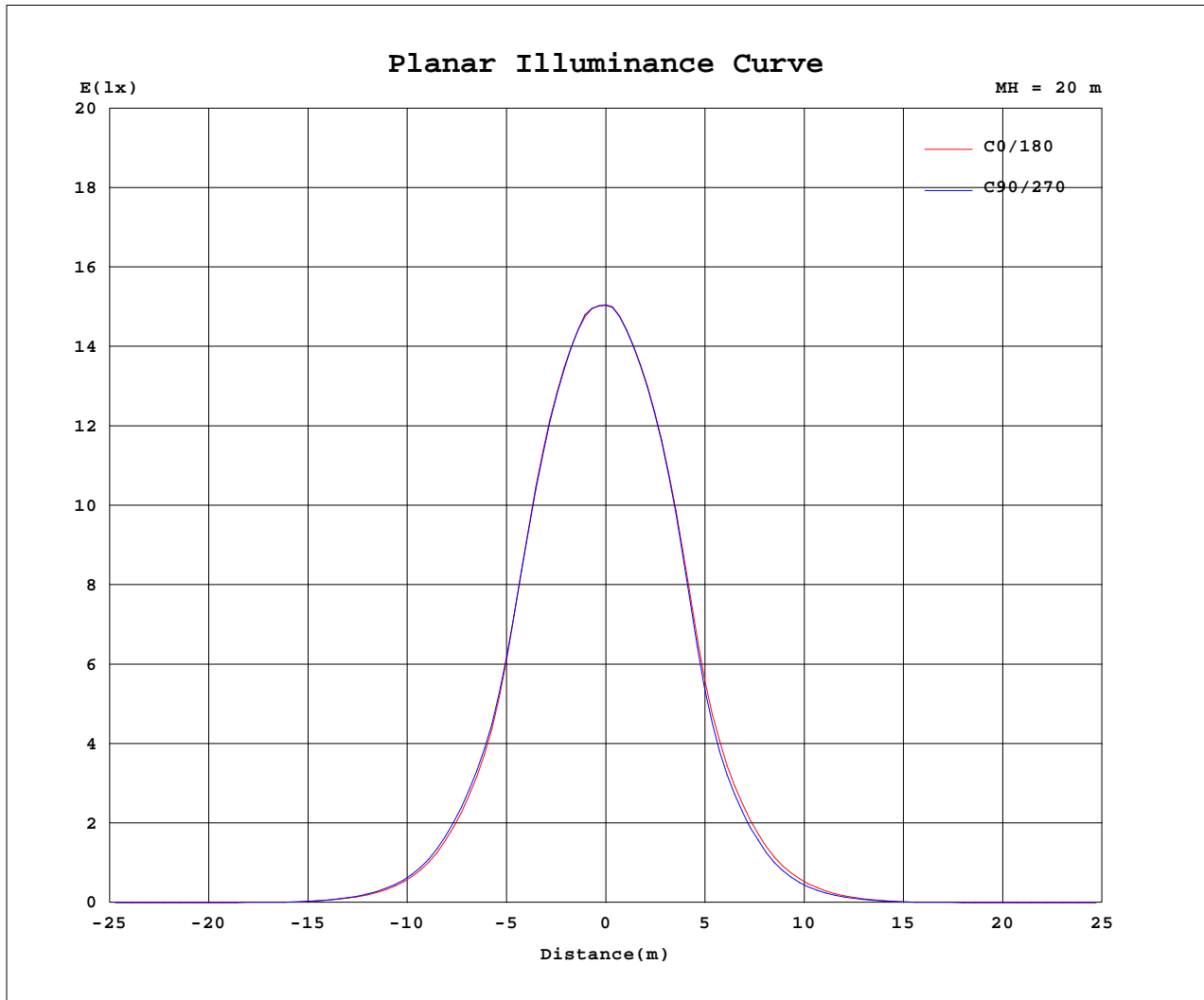
AvgL	cd/m2
L_0~180(65)av	459
L_0~180(75)av	393
L_0~180(85)av	515
L_90~270(65)av	431
L_90~270(75)av	357
L_90~270(85)av	393
L_45(65)av	436
L_45(75)av	328
L_45(85)av	307

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-7-29

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-30G2000-C-83 Ra:90
LENS:PM-1083 15R
DRIVER: PUP40A-1WMC-850 700mA
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: 2024-7-29

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-30G2000-C-83 Ra:90
 LENS: PM-1083 15R
 DRIVER: PUP40A-1WMC-850 700mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.09V I:0.2360A P:28.112W PF:0.9906 Freq:59.98Hz Lamp Flux:2916.19x1 lm		
NAME: 2318.166-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 240729959
MFR.: RISE	SUR.: 0.001734065m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	6018	6018	6018	6018	6018	6018	6018	6018	6018	6018	6018	6018						
5	5652	5690	5682	5650	5585	5536	5477	5446	5452	5473	5537	5601						
10	4372	4445	4419	4344	4247	4200	4141	4070	4080	4110	4187	4277						
15	2293	2411	2400	2344	2232	2167	2106	2019	2047	2010	2071	2167						
20	1092	1189	1194	1157	1061	1029	1004	961	953	913	933	987						
25	442	497	500	477	428	411	403	382	373	347	354	383						
30	156	179	181	171	153	147	140	127	122	116	123	133						
35	44.8	52.6	52.7	48.5	42.9	39.8	35.8	31.5	30.0	30.0	33.5	37.4						
40	9.24	9.83	9.95	9.19	8.87	9.20	8.52	7.87	7.58	7.81	7.97	8.20						
45	5.39	6.32	6.38	5.60	5.28	5.87	5.47	4.74	4.52	4.89	4.98	4.87						
50	1.95	2.76	2.78	2.27	2.01	2.15	1.70	1.44	1.34	1.36	1.58	1.57						
55	0.77	0.83	0.87	0.86	0.84	0.83	0.79	0.74	0.69	0.68	0.67	0.70						
60	0.50	0.53	0.55	0.54	0.53	0.53	0.51	0.47	0.45	0.44	0.44	0.46						
65	0.34	0.35	0.35	0.34	0.33	0.34	0.34	0.31	0.29	0.29	0.29	0.30						
70	0.24	0.23	0.23	0.23	0.18	0.23	0.23	0.21	0.20	0.20	0.19	0.21						
75	0.18	0.17	0.17	0.17	0.10	0.17	0.17	0.15	0.14	0.15	0.14	0.15						
80	0.14	0.12	0.12	0.10	0.11	0.11	0.13	0.10	0.10	0.10	0.09	0.10						
85	0.09	0.07	0.07	0.07	0.06	0.05	0.07	0.04	0.04	0.05	0.03	0.04						
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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