

Luminaire Photograph



Light Output Ratio:	67.7%	
Luminaire Power:	23.73 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.70	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-10-18

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-1083B 36R
DRIVER: PUP40A-1WMC-850 600mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

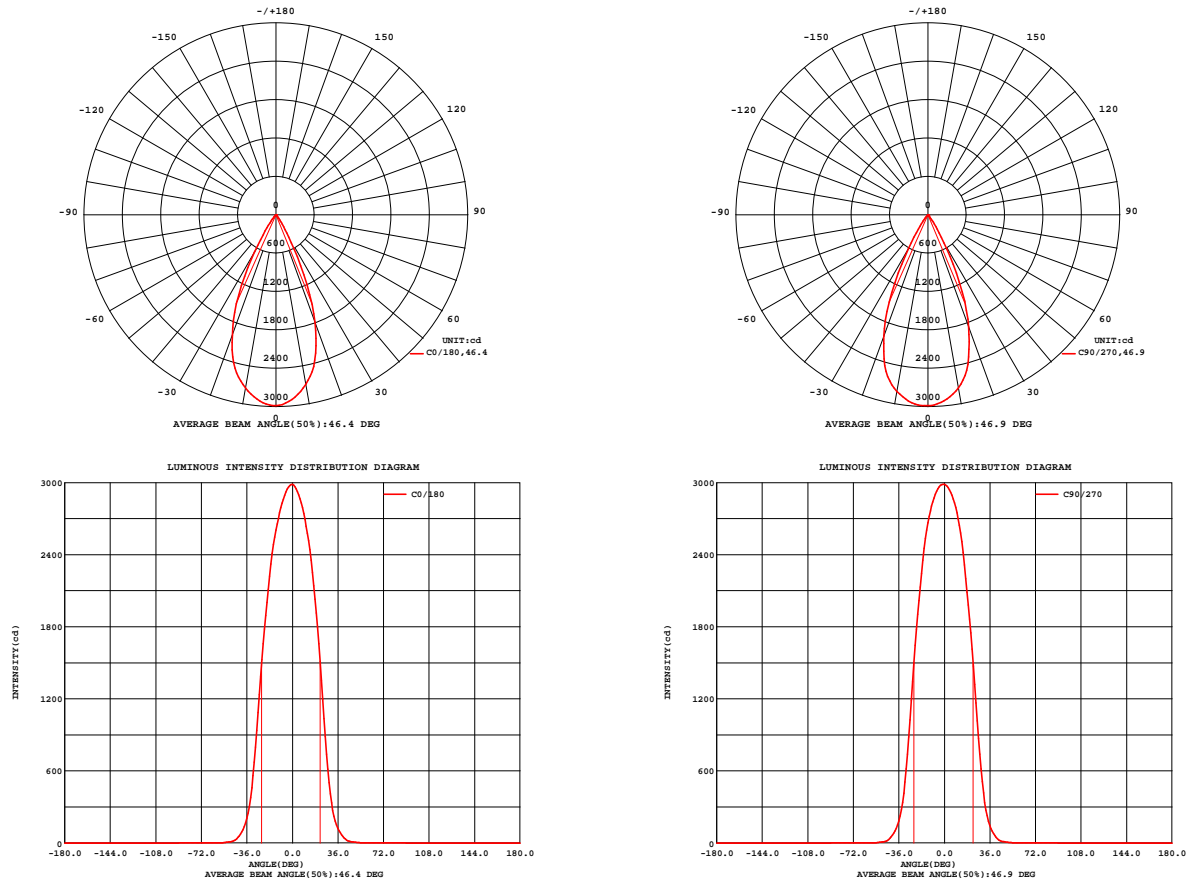


Fig. C0/C180

Fig. C90/C270

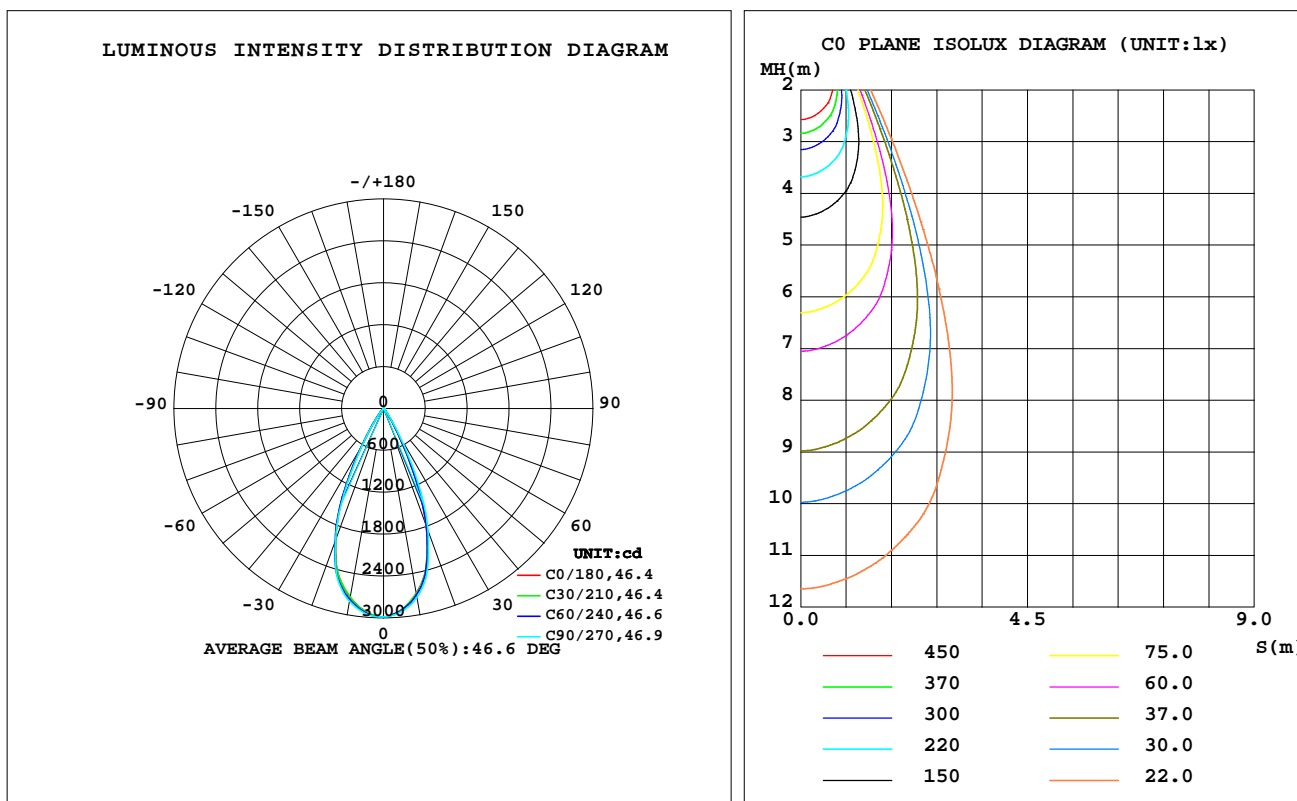
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.07V I:0.1996A P:23.732W PF:0.9885 Freq:59.98Hz Lamp Flux:2450x1 lm		
NAME: 2318.137-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310181239
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 69.88 lm/W			
MODEL	Bridgelux	Imax(cd)	2985	S/MH(C0/180)	0.73
NOMINAL POWER(W)	24	LOR(%)	67.7	S/MH(C90/270)	0.72
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1658.4	UP,DN(C0-180)	0.0,32.6
NOMINAL FLUX(lm)	2450	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,35.1
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	down(%)	67.7	CIBSE SHR MAX	0.70



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ZONAL FLUX DIAGRAM

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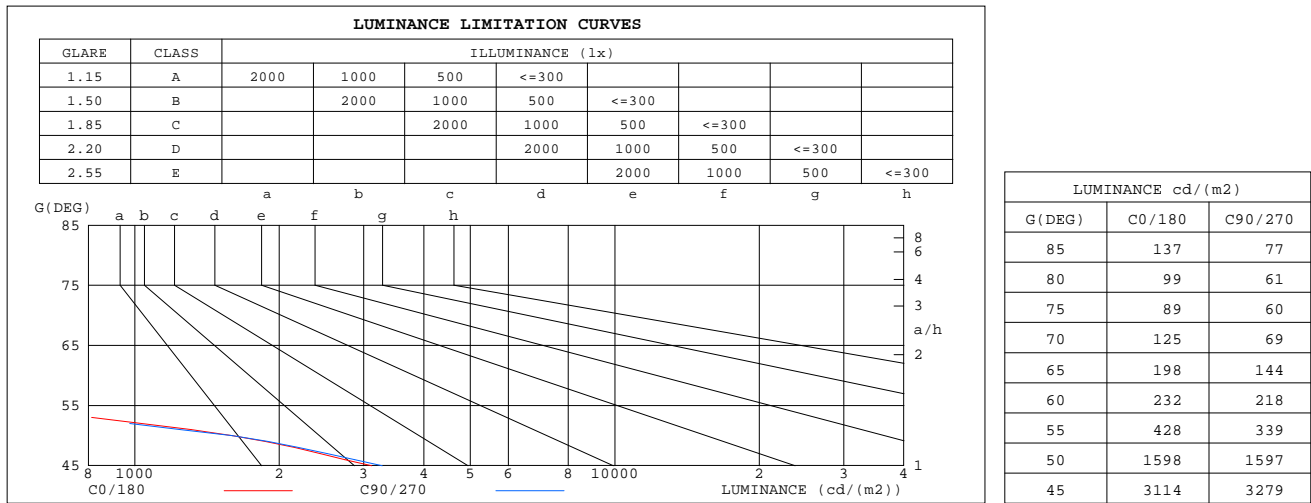
	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	2692	2703	2748	2768	2749	2761	2804	2761	0- 10	273.3	273.3	16.5,11.2
20	1791	1802	1864	1950	2001	2020	2019	1900	10- 20	668.6	941.9	56.8,38.4
30	409.8	413.9	509.0	616.0	671.8	668.8	616.8	505.2	20- 30	549.4	1491	89.9,60.9
40	54.58	52.64	61.87	81.03	90.86	89.89	81.88	66.45	30- 40	144.3	1636	98.6,66.8
50	6.390	6.727	6.381	8.771	8.953	8.250	7.975	6.783	40- 50	19.81	1655	99.8,67.6
60	0.7218	0.6591	0.6790	0.8389	0.4920	0.4306	0.5454	0.8747	50- 60	2.383	1658	100,67.7
70	0.2654	0.1969	0.1471	0.2017	0.2066	0.2059	0.1719	0.2422	60- 70	0.4415	1658	100,67.7
80	0.1075	0.0705	0.0660	0.0602	0.0915	0.0670	0.0684	0.0637	70- 80	0.1238	1658	100,67.7
90	0	0	0	0	0	0	0	0	80- 90	0.0471	1658	100,67.7
100	0	0	0	0	0	0	0	0	90-100	0	1658	100,67.7
110	0	0	0	0	0	0	0	0	100-110	0	1658	100,67.7
120	0	0	0	0	0	0	0	0	110-120	0	1658	100,67.7
130	0	0	0	0	0	0	0	0	120-130	0	1658	100,67.7
140	0	0	0	0	0	0	0	0	130-140	0	1658	100,67.7
150	0	0	0	0	0	0	0	0	140-150	0	1658	100,67.7
160	0	0	0	0	0	0	0	0	150-160	0	1658	100,67.7
170	0	0	0	0	0	0	0	0	160-170	0	1658	100,67.7
180	0	0	0	0	0	0	0	0	170-180	0	1658	100,67.7
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.07V I:0.1996A P:23.732W PF:0.9885 Freq:59.98Hz Lamp Flux:2450x1 lm		
NAME: 2318.137-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310181239
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

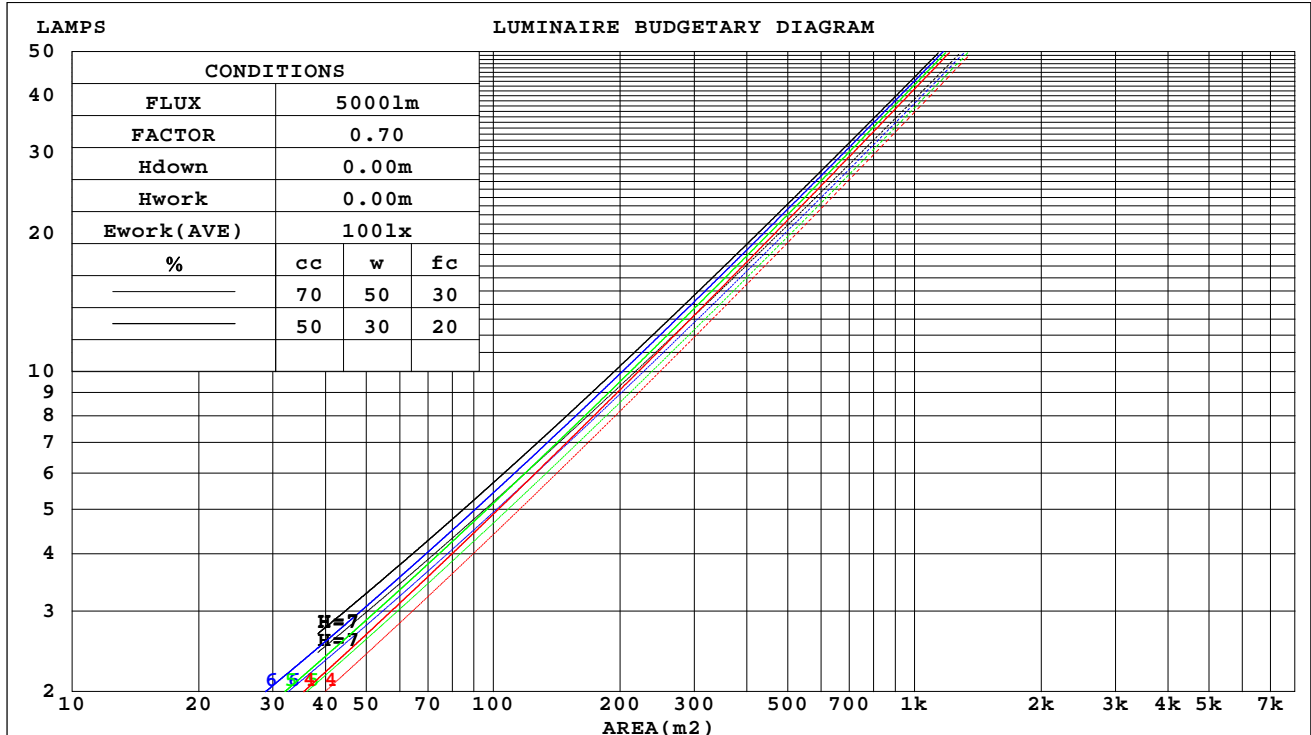
SERIAL No.: 2310181239

MFR.: RISE

SUR.: 0.006217985m2

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.: 2310181239
MFR.: RISE	SUR.: 0.006217985m2	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	.106	.060	.019	.101	.058	.018	.093	.053	.017	.085	.049	.016	.078	.045	.015	
2.0	.100	.055	.017	.096	.053	.016	.089	.050	.015	.083	.046	.015	.077	.043	.014	
3.0	.095	.050	.015	.091	.049	.015	.085	.046	.014	.080	.044	.013	.075	.041	.013	
4.0	.090	.047	.014	.087	.046	.013	.082	.043	.013	.077	.041	.013	.073	.040	.012	
5.0	.085	.043	.013	.083	.043	.012	.079	.041	.012	.075	.039	.012	.071	.038	.011	
6.0	.081	.041	.012	.079	.040	.012	.076	.039	.011	.072	.037	.011	.069	.036	.011	
7.0	.078	.039	.011	.076	.038	.011	.073	.037	.011	.070	.036	.010	.067	.035	.010	
8.0	.075	.036	.010	.073	.036	.010	.070	.035	.010	.067	.034	.010	.065	.033	.010	
9.0	.072	.035	.010	.070	.034	.010	.068	.033	.009	.065	.033	.009	.063	.032	.009	
10.0	.069	.033	.009	.068	.033	.009	.065	.032	.009	.063	.031	.009	.061	.031	.009	

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	.129	.129	.129	.110	.110	.110	.075	.075	.075	.043	.043	.043	.014	.014	.014		
1.0	.115	.107	.099	.098	.091	.085	.067	.063	.059	.039	.036	.034	.012	.012	.011		
2.0	.104	.090	.078	.089	.077	.068	.061	.053	.047	.035	.031	.028	.011	.010	.009		
3.0	.094	.077	.063	.081	.066	.054	.056	.046	.038	.032	.027	.023	.010	.009	.007		
4.0	.087	.067	.051	.074	.058	.045	.051	.040	.031	.030	.023	.019	.010	.008	.006		
5.0	.080	.059	.042	.069	.051	.037	.048	.035	.026	.028	.021	.015	.009	.007	.005		
6.0	.075	.052	.036	.064	.045	.031	.044	.032	.022	.026	.019	.013	.008	.006	.004		
7.0	.070	.047	.030	.060	.040	.026	.042	.028	.019	.024	.017	.011	.008	.005	.004		
8.0	.066	.042	.026	.057	.037	.023	.039	.026	.016	.023	.015	.010	.007	.005	.003		
9.0	.063	.039	.022	.054	.034	.020	.037	.024	.014	.022	.014	.008	.007	.005	.003		
10.0	.060	.036	.020	.051	.031	.017	.036	.022	.012	.021	.013	.007	.007	.004	.002		

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2310181239		
MFR.: RISE					SUR.: 0.006217985m2			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	8.0	8.8	8.2	8.9	9.1	8.6	9.4	8.8	9.5	9.7
3H	7.8	8.6	8.1	8.8	8.9	8.4	9.1	8.7	9.3	9.5
4H	7.7	8.4	8.0	8.7	8.9	8.3	9.0	8.6	9.2	9.5
6H	7.7	8.3	7.9	8.5	8.8	8.2	8.9	8.5	9.1	9.4
8H	7.6	8.2	7.9	8.5	8.7	8.2	8.8	8.5	9.1	9.3
12H	7.6	8.2	7.9	8.4	8.7	8.1	8.8	8.5	9.0	9.3
4H 2H	7.7	8.4	8.0	8.7	8.9	8.3	9.0	8.6	9.2	9.5
3H	7.6	8.2	7.9	8.4	8.7	8.1	8.8	8.5	9.0	9.3
4H	7.5	8.0	7.8	8.3	8.6	8.1	8.6	8.4	8.9	9.2
6H	7.4	7.9	7.7	8.2	8.5	8.0	8.4	8.3	8.8	9.1
8H	7.3	7.8	7.7	8.1	8.5	7.9	8.4	8.3	8.7	9.1
12H	7.3	7.7	7.7	8.0	8.4	7.8	8.3	8.3	8.6	9.0
8H 4H	7.3	7.8	7.7	8.1	8.5	7.9	8.4	8.3	8.7	9.1
6H	7.2	7.6	7.6	8.0	8.4	7.8	8.2	8.2	8.6	9.0
8H	7.2	7.5	7.6	7.9	8.3	7.7	8.1	8.2	8.5	8.9
12H	7.1	7.4	7.6	7.8	8.3	7.7	8.0	8.1	8.4	8.9
12H 4H	7.3	7.7	7.7	8.0	8.4	7.8	8.3	8.3	8.6	9.0
6H	7.2	7.5	7.6	7.9	8.3	7.7	8.1	8.2	8.5	8.9
8H	7.1	7.4	7.6	7.8	8.3	7.7	8.0	8.1	8.4	8.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 4.1 / -19.2					+ 4.6 / -20.7				
1.5H	+ 6.7 / -17.1					+ 7.2 / -18.7				
2.0H	+ 6.3 / - 9.6					+ 6.7 / -10.1				

CIE Pub.117, 2450 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.1)
Area: 0.00621798 m2

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30minutes warm-up

UTILIZATION FACTORS TABLE

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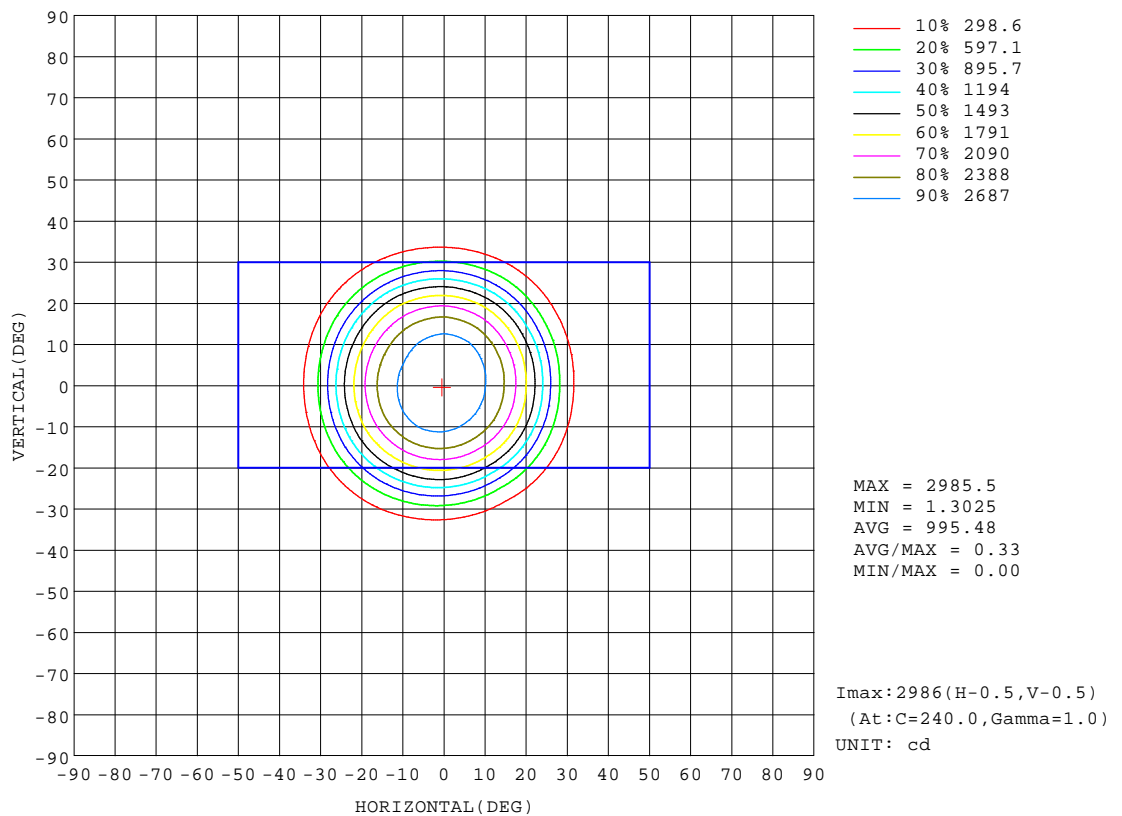
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	61	58	55	61	57	55	61	57	55	53
0.80	66	63	60	66	62	60	65	62	60	58
1.00	69	65	63	68	65	63	67	65	63	60
1.25	71	68	66	70	68	66	69	67	65	62
1.50	73	70	68	72	69	68	71	68	67	64
2.00	74	72	70	73	71	69	72	70	68	65
2.50	75	73	71	74	72	71	72	71	69	65
3.00	76	74	72	75	73	72	73	71	70	66
4.00	77	76	74	76	75	74	74	73	72	67
5.00	78	77	76	77	76	75	74	73	73	68
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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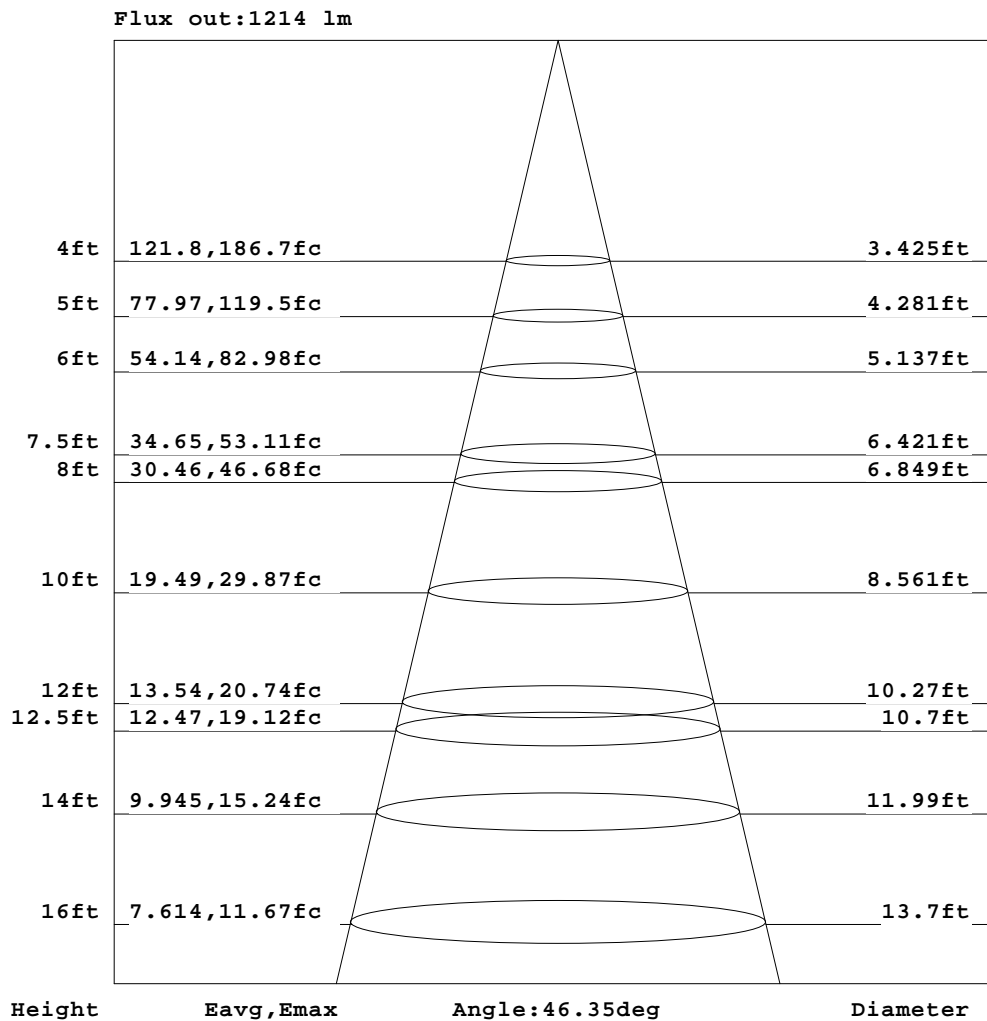


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AAI Figure

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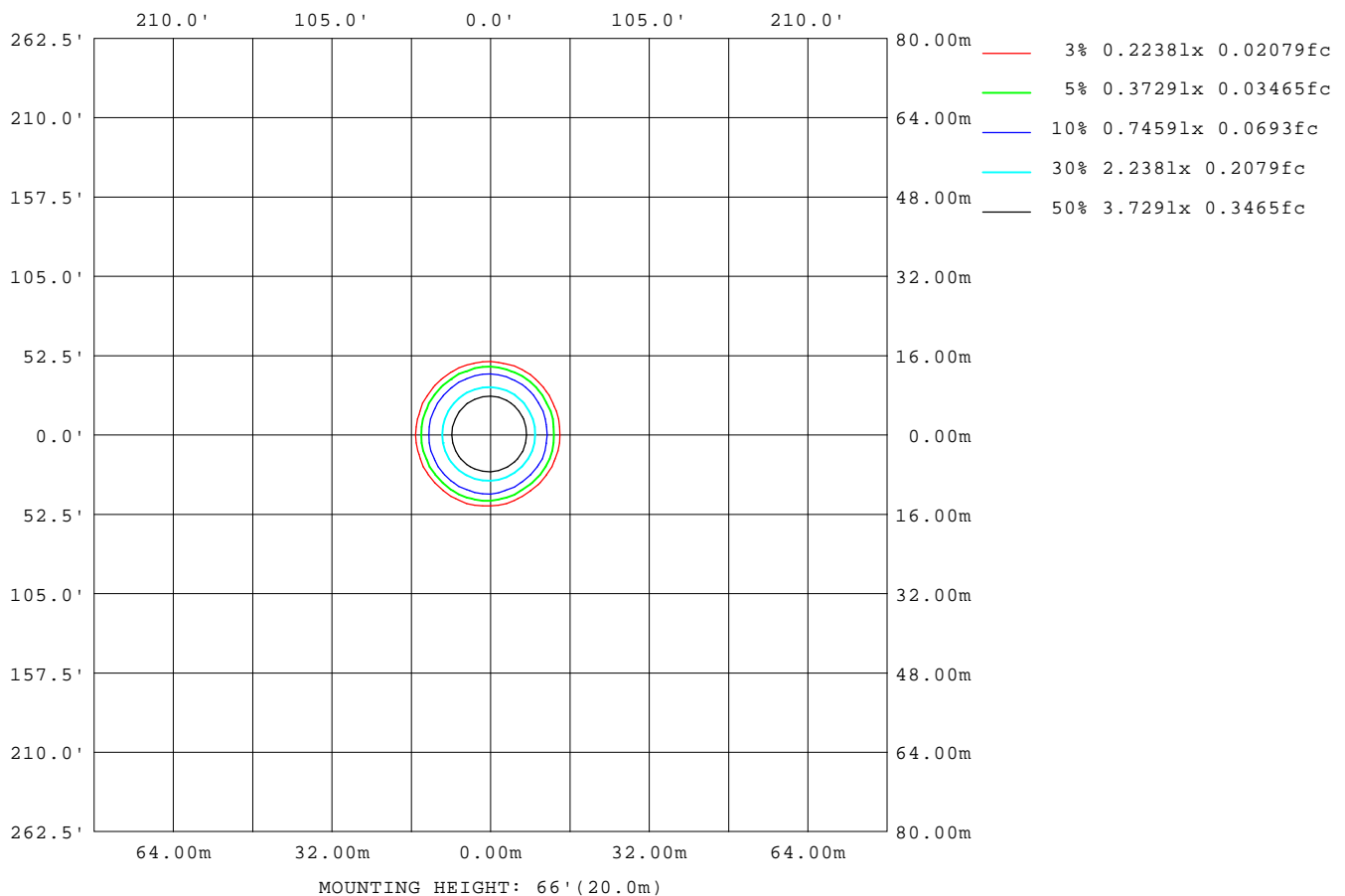
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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30minutes warm-up

LED Avg.L Report

Test:U:120.07V I:0.1996A P:23.732W PF:0.9885 Freq:59.98Hz Lamp Flux:2450x1 lm		
NAME: 2318.137-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310181239
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

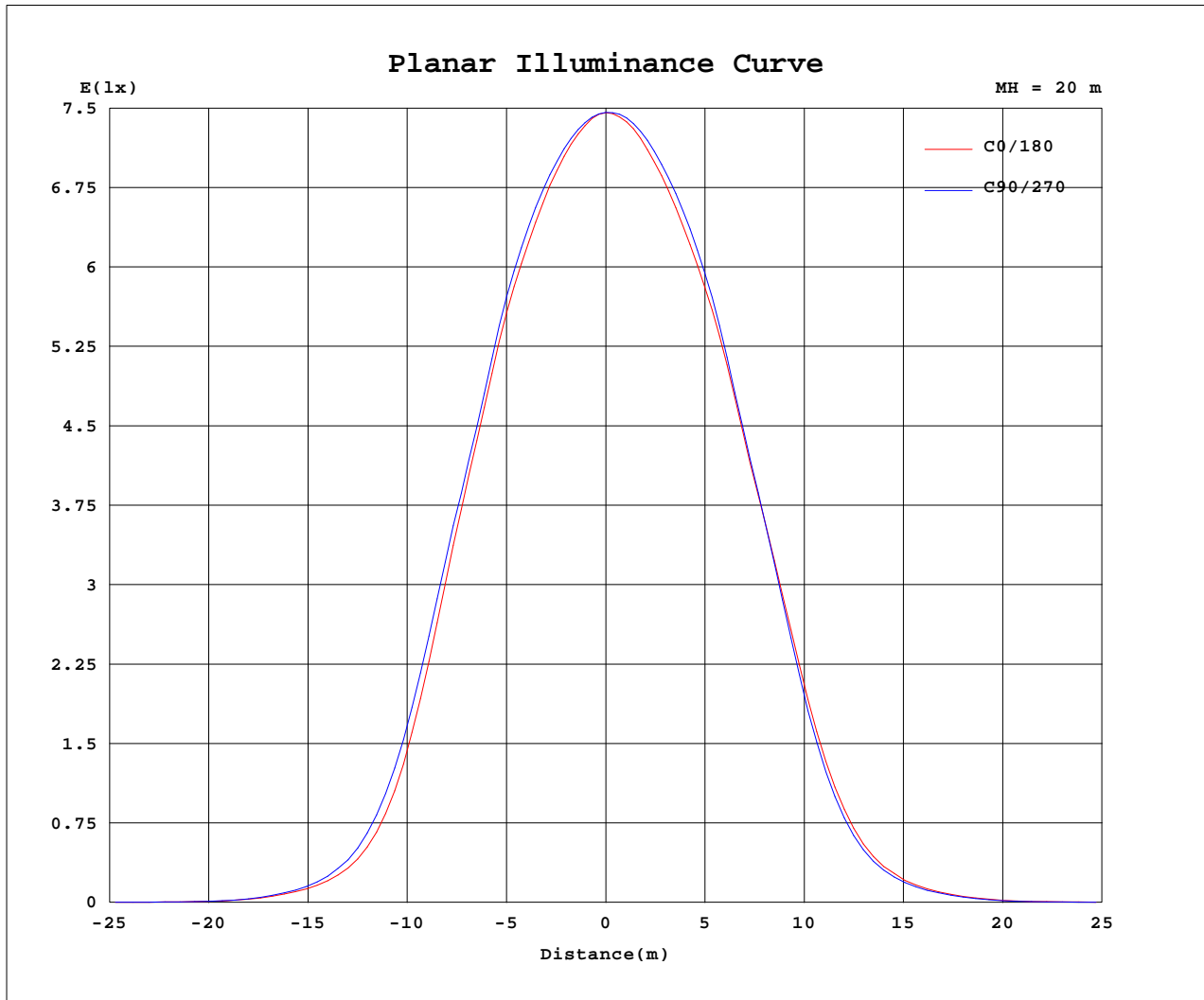
AvgL	cd/m2
L_0~180(65)av	171
L_0~180(75)av	83
L_0~180(85)av	127
L_90~270(65)av	137
L_90~270(75)av	63
L_90~270(85)av	78
L_45(65)av	184
L_45(75)av	63
L_45(85)av	60

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-10-18

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-1083B 36R
DRIVER: PUP40A-1WMC-850 600mA
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: 2023-10-18

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-1083B 36R
 DRIVER: PUP40A-1WMC-850 600mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.07V I:0.1996A P:23.732W PF:0.9885 Freq:59.98Hz Lamp Flux:2450x1 lm		
NAME: 2318.137-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310181239
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2985	2985	2985	2985	2985	2985	2985	2985	2985	2985	2985	2985						
5	2899	2895	2903	2919	2931	2930	2922	2922	2937	2948	2938	2914						
10	2692	2692	2714	2748	2774	2762	2749	2743	2778	2804	2792	2730						
15	2354	2357	2368	2419	2470	2492	2484	2483	2523	2536	2492	2403						
20	1791	1800	1804	1864	1922	1979	2001	2007	2033	2019	1951	1848						
25	1035	1042	1048	1166	1257	1347	1384	1385	1398	1342	1249	1107						
30	410	414	414	509	585	646	672	680	658	617	553	458						
35	151	151	147	181	215	238	249	255	241	224	206	168						
40	54.6	53.2	52.1	61.9	76.9	85.2	90.9	92.2	87.6	81.9	73.1	59.8						
45	13.7	14.3	13.9	14.4	17.6	23.6	25.0	25.0	23.7	19.9	18.3	13.4						
50	6.39	6.92	6.53	6.38	8.28	9.26	8.95	8.10	8.40	7.98	7.47	6.10						
55	1.53	1.68	1.24	1.21	2.00	2.99	2.63	2.35	1.86	1.64	2.24	2.02						
60	0.72	0.67	0.65	0.68	0.88	0.80	0.49	0.42	0.44	0.55	0.85	0.90						
65	0.52	0.48	0.42	0.38	0.51	0.53	0.38	0.35	0.36	0.34	0.53	0.62						
70	0.27	0.22	0.17	0.15	0.17	0.23	0.21	0.23	0.18	0.17	0.19	0.29						
75	0.14	0.11	0.11	0.10	0.09	0.10	0.12	0.11	0.10	0.11	0.10	0.11						
80	0.11	0.07	0.07	0.07	0.06	0.06	0.09	0.07	0.06	0.07	0.06	0.07						
85	0.07	0.04	0.04	0.04	0.03	0.03	0.06	0.04	0.03	0.04	0.03	0.03						
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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