

Luminaire Photograph



Light Output Ratio:	72.3%	
Luminaire Power:	27.42 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.50	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-11-4

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

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

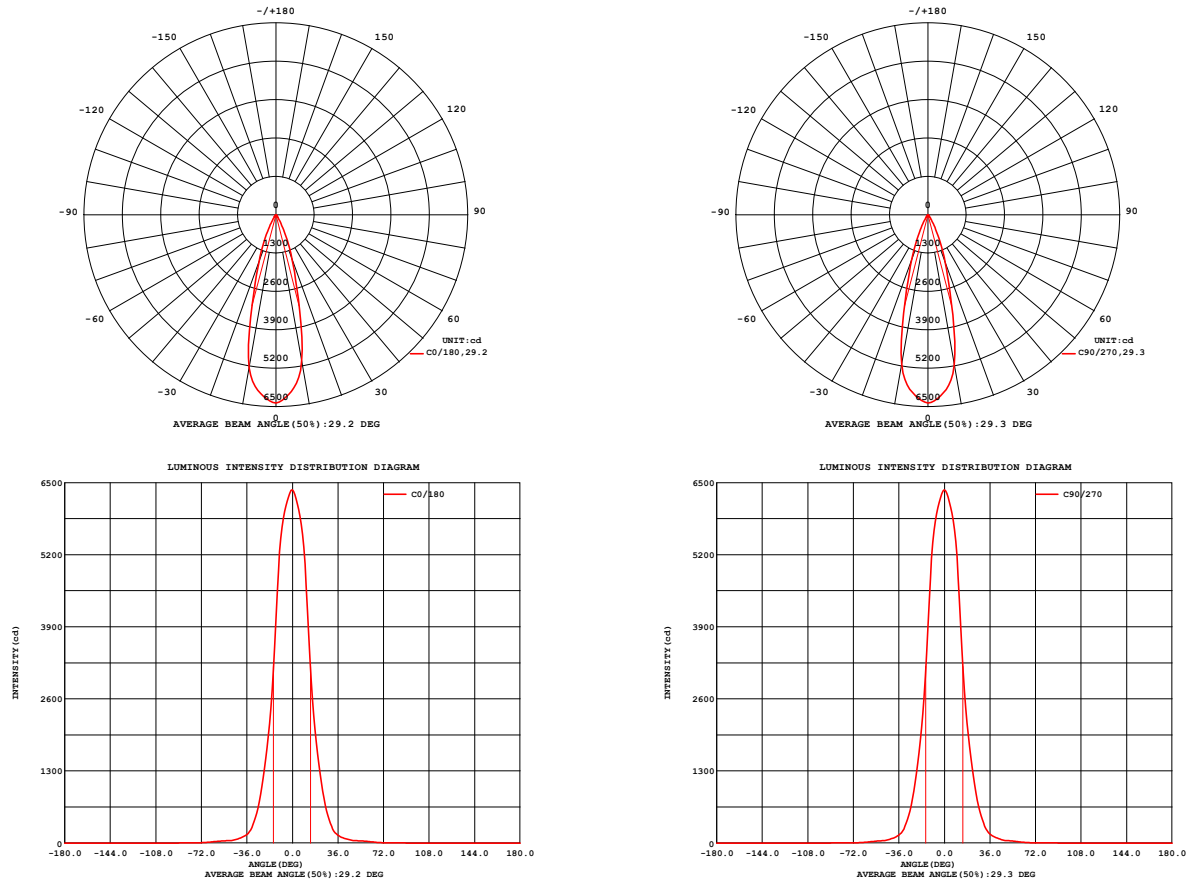


Fig. C0/C180

Fig. C90/C270

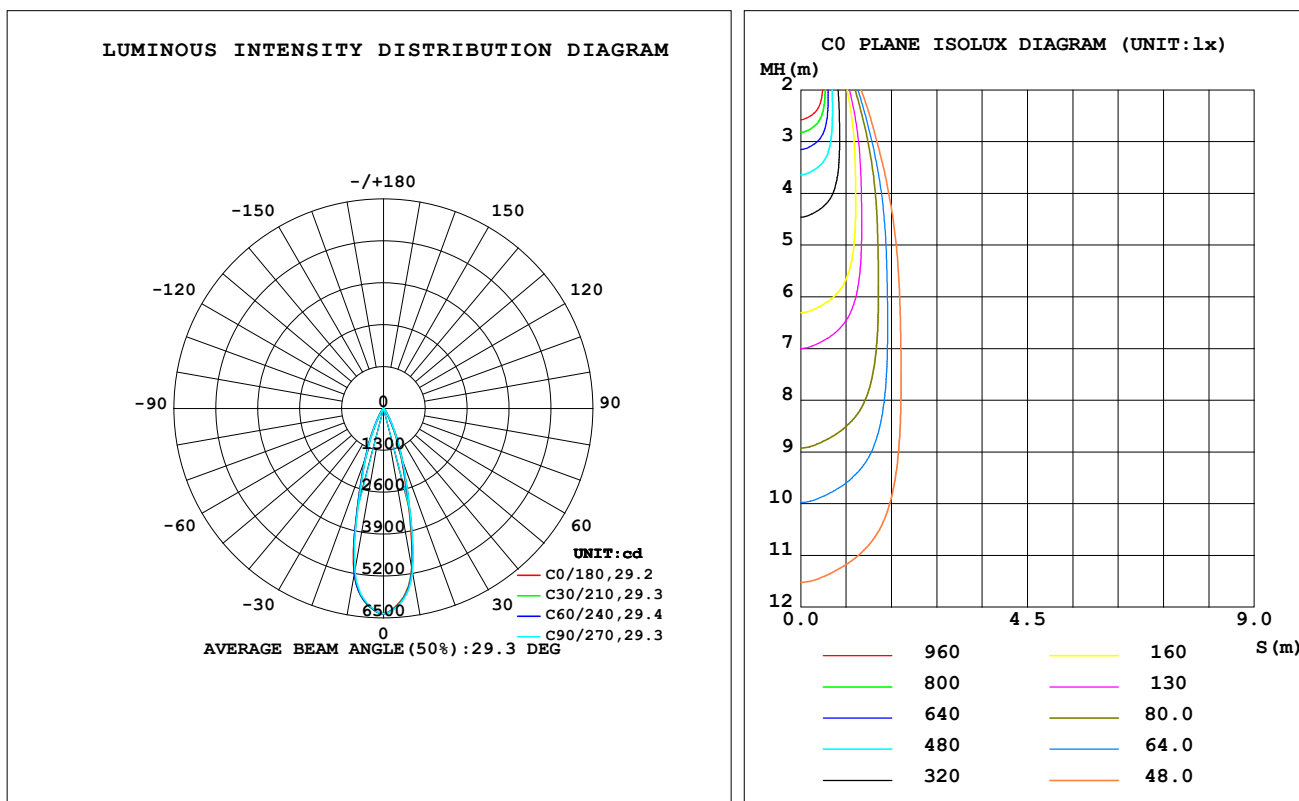
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.04V I:0.2304A P:27.424W PF:0.9902 Freq:59.98Hz Lamp Flux:2796.6x1 lm		
NAME: 2318.223-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311041308
MFR.: RISE	SUR.: 0.00984704m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 73.69 lm/W
MODEL	Bridgelux	I _{max} (cd)	6370	S/MH (C0/180)		0.49
NOMINAL POWER (W)	27	LOR (%)	72.3	S/MH (C90/270)		0.48
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	2020.9	η UP, DN (C0-180)		0.0, 36.6
NOMINAL FLUX (lm)	2796.6	CIE CLASS	DIRECT	η UP, DN (C180-360)		0.0, 35.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.50
TEST VOLTAGE (V)	120	η down (%)	72.3	CIBSE SHR MAX		0.50



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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	5029	5099	5163	5222	5249	5214	5135	5038	0- 10	551.0	551.0	27.3,19.7
20	1610	1697	1739	1730	1710	1683	1626	1585	10- 20	852.3	1403	69.4,50.2
30	357.6	399.9	422.5	413.4	392.6	377.7	359.5	346.3	20- 30	403.7	1807	89.4,64.6
40	93.39	101.8	106.6	104.5	99.69	95.40	92.28	90.49	30- 40	119.2	1926	95.3,68.9
50	42.14	43.50	42.37	43.15	42.63	41.03	39.70	40.81	40- 50	47.87	1974	97.7,70.6
60	27.78	25.09	19.86	25.74	28.59	23.77	18.40	24.21	50- 60	30.71	2005	99.2,71.7
70	6.791	5.729	3.747	5.946	7.332	5.630	3.625	5.680	60- 70	13.41	2018	99.9,72.2
80	0.8079	0.5521	0.4133	0.5785	0.8798	0.5287	0.3391	0.5051	70- 80	2.536	2021	100,72.3
90	0	0	0	0	0	0	0	0	80- 90	0.1850	2021	100,72.3
100	0	0	0	0	0	0	0	0	90-100	0	2021	100,72.3
110	0	0	0	0	0	0	0	0	100-110	0	2021	100,72.3
120	0	0	0	0	0	0	0	0	110-120	0	2021	100,72.3
130	0	0	0	0	0	0	0	0	120-130	0	2021	100,72.3
140	0	0	0	0	0	0	0	0	130-140	0	2021	100,72.3
150	0	0	0	0	0	0	0	0	140-150	0	2021	100,72.3
160	0	0	0	0	0	0	0	0	150-160	0	2021	100,72.3
170	0	0	0	0	0	0	0	0	160-170	0	2021	100,72.3
180	0	0	0	0	0	0	0	0	170-180	0	2021	100,72.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
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LENS:PM-1083 15R
DRIVER: PUP40A-1WMC-850 700mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.04V I:0.2304A P:27.424W PF:0.9902 Freq:59.98Hz
Lamp Flux:2796.6x1 lm

NAME: 2318.223-ACOT-84-AM

TYPE:

WEIGHT:

SPEC.: 3000K

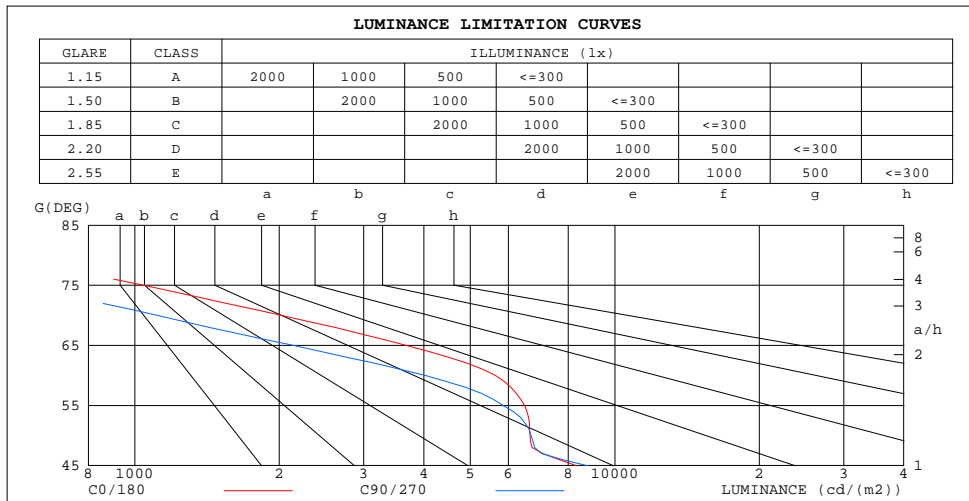
DIM.:

SERIAL No.: 2311041308

MFR.: RISE

SUR.: 0.00984704m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	196	159
80	473	242
75	1043	559
70	2017	1113
65	3677	2141
60	5645	4032
55	6490	5858
50	6660	6694
45	8317	8764

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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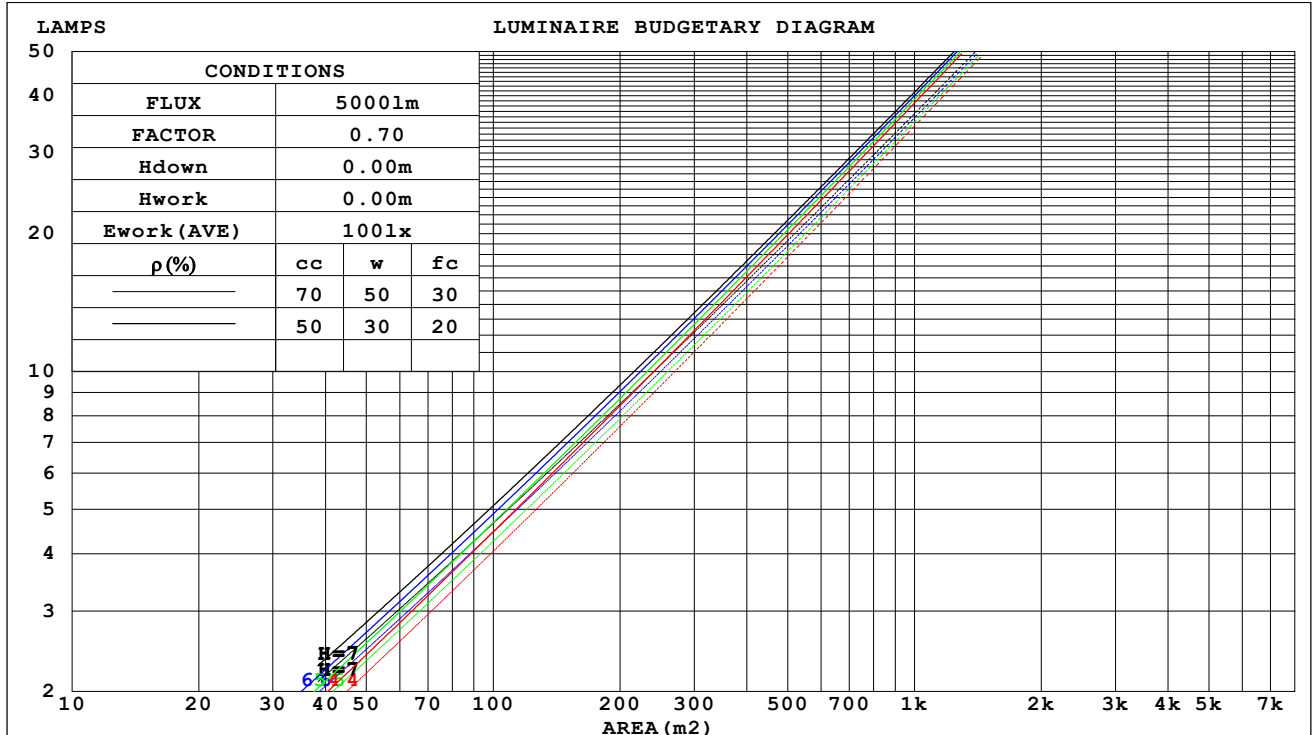
SERIAL No.: 2311041308

MFR.: RISE

SUR.: 0.00984704m2

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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NAME: 2318.223-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311041308
MFR.: RISE	SUR.: 0.00984704m2	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	.109	.062	.020	.104	.059	.019	.095	.054	.017	.087	.050	.016	.079	.046	.015	
2.0	.102	.056	.017	.098	.054	.017	.091	.050	.016	.084	.047	.015	.077	.044	.014	
3.0	.096	.051	.015	.092	.050	.015	.086	.047	.014	.080	.044	.014	.075	.042	.013	
4.0	.090	.047	.014	.087	.046	.014	.082	.044	.013	.077	.041	.012	.073	.039	.012	
5.0	.085	.043	.013	.083	.043	.012	.078	.041	.012	.074	.039	.012	.070	.037	.011	
6.0	.081	.041	.012	.079	.040	.011	.075	.038	.011	.071	.037	.011	.068	.036	.011	
7.0	.077	.038	.011	.075	.037	.011	.072	.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	.033	.009	.066	.033	.009	.063	.032	.009	.061	.031	.009	
10.0	.067	.032	.009	.066	.032	.009	.063	.031	.009	.061	.030	.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	.138	.138	.138	.118	.118	.118	.080	.080	.080	.046	.046	.046	.015	.015	.015		
1.0	.122	.114	.106	.105	.098	.091	.072	.067	.063	.041	.039	.037	.013	.013	.012		
2.0	.110	.096	.084	.094	.083	.073	.065	.057	.051	.037	.033	.030	.012	.011	.010		
3.0	.100	.082	.068	.086	.071	.059	.059	.049	.041	.034	.029	.024	.011	.009	.008		
4.0	.091	.071	.056	.078	.061	.048	.054	.043	.034	.031	.025	.020	.010	.008	.007		
5.0	.084	.062	.046	.072	.054	.040	.050	.038	.028	.029	.022	.017	.009	.007	.006		
6.0	.078	.055	.039	.067	.048	.034	.046	.033	.024	.027	.020	.014	.009	.006	.005		
7.0	.073	.049	.033	.062	.043	.029	.043	.030	.020	.025	.018	.012	.008	.006	.004		
8.0	.068	.045	.029	.059	.039	.025	.041	.027	.018	.024	.016	.011	.008	.005	.003		
9.0	.064	.041	.025	.055	.035	.022	.038	.025	.015	.022	.015	.009	.007	.005	.003		
10.0	.061	.037	.022	.052	.032	.019	.036	.023	.013	.021	.013	.008	.007	.004	.003		

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30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:120.04V I:0.2304A P:27.424W PF:0.9902 Freq:59.98Hz Lamp Flux:2796.6x1 lm										
NAME: 2318.223-ACOT-84-AM					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2311041308		
MFR.: RISE					SUR.: 0.00984704m2			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	9.2	9.9	9.4	10.1	10.2	9.1	9.8	9.3	10.0	10.1
3H	9.3	10.0	9.6	10.2	10.4	9.0	9.7	9.3	9.9	10.1
4H	9.3	9.9	9.5	10.1	10.4	9.0	9.6	9.2	9.8	10.1
6H	9.2	9.8	9.5	10.1	10.3	8.9	9.5	9.2	9.7	10.0
8H	9.2	9.8	9.5	10.0	10.3	8.8	9.4	9.1	9.7	9.9
12H	9.1	9.7	9.4	10.0	10.2	8.8	9.4	9.1	9.6	9.9
4H 2H	9.2	9.9	9.5	10.1	10.3	9.2	9.8	9.4	10.0	10.2
3H	9.4	10.0	9.7	10.3	10.5	9.1	9.7	9.4	10.0	10.2
4H	9.4	9.9	9.7	10.2	10.5	9.0	9.6	9.4	9.9	10.2
6H	9.3	9.8	9.7	10.1	10.4	8.9	9.4	9.3	9.7	10.1
8H	9.3	9.7	9.6	10.0	10.4	8.9	9.3	9.3	9.7	10.0
12H	9.2	9.6	9.6	10.0	10.3	8.8	9.2	9.2	9.6	10.0
8H 4H	9.3	9.7	9.6	10.0	10.4	8.9	9.3	9.3	9.7	10.1
6H	9.2	9.5	9.6	9.9	10.3	8.8	9.2	9.2	9.6	10.0
8H	9.1	9.4	9.6	9.8	10.3	8.8	9.1	9.2	9.5	9.9
12H	9.0	9.3	9.5	9.8	10.2	8.7	9.0	9.2	9.4	9.9
12H 4H	9.2	9.6	9.6	10.0	10.3	8.9	9.3	9.3	9.6	10.0
6H	9.1	9.4	9.5	9.8	10.3	8.8	9.1	9.2	9.5	9.9
8H	9.0	9.3	9.5	9.8	10.2	8.7	9.0	9.2	9.4	9.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.1 / - 1.6					+ 1.7 / - 2.4				
1.5H	+ 2.0 / - 1.4					+ 2.8 / - 2.1				
2.0H	+ 0.8 / - 1.3					+ 1.7 / - 3.2				

CIE Pub.117, 2797 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.6)
Area: 0.00984704 m2

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UTILIZATION FACTORS TABLE

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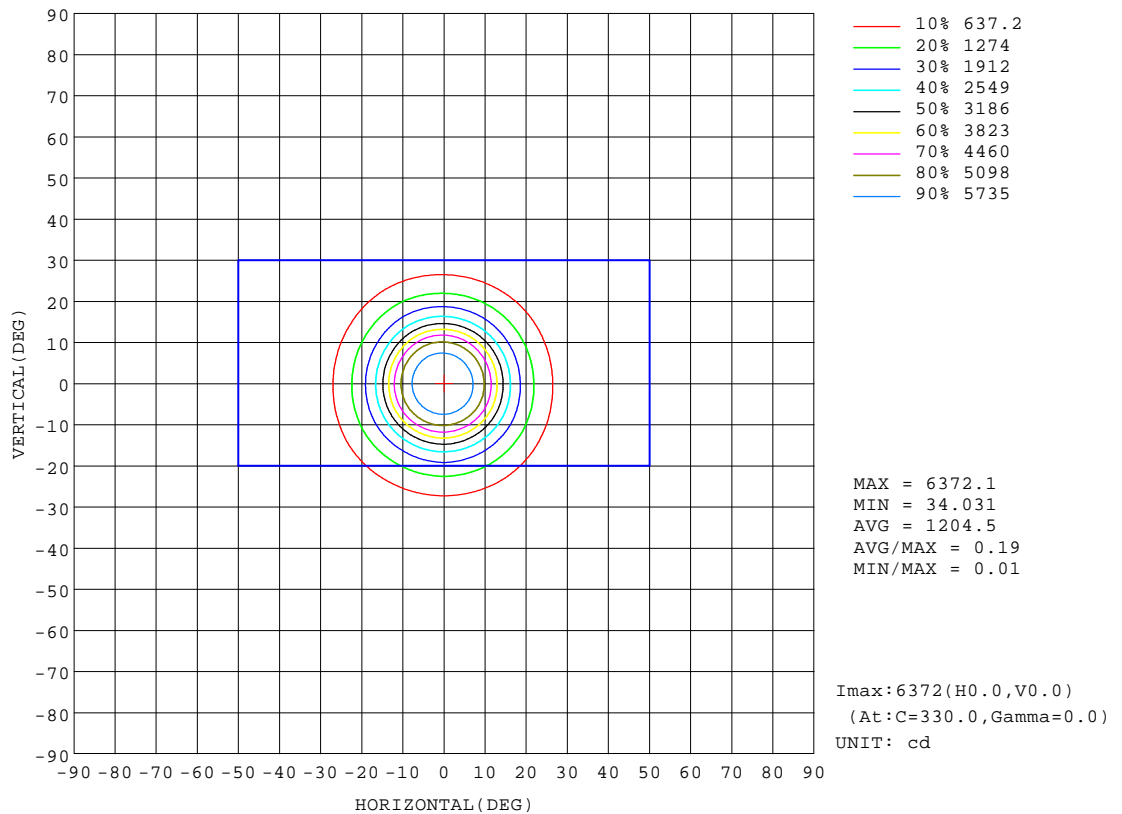
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	64	60	57	64	59	57	63	59	57	54
0.80	69	65	63	69	65	63	68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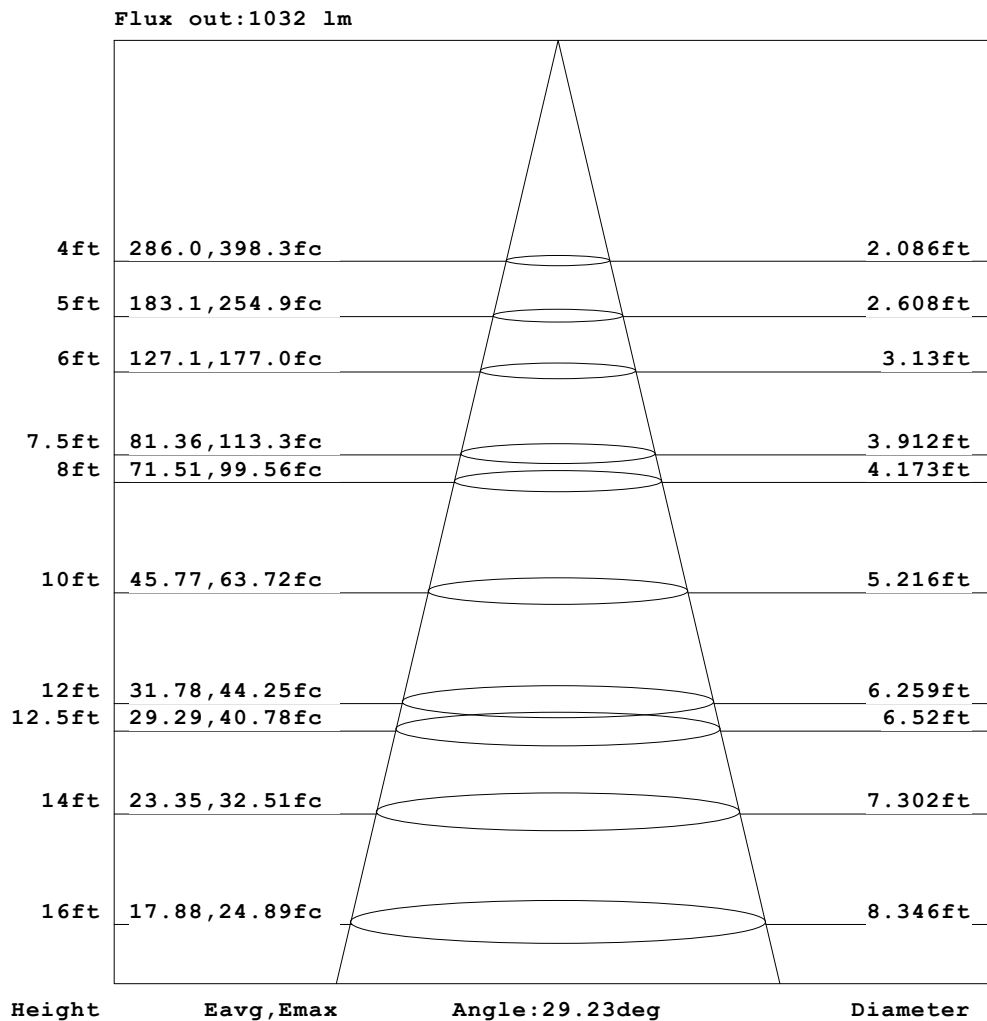


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AAI Figure

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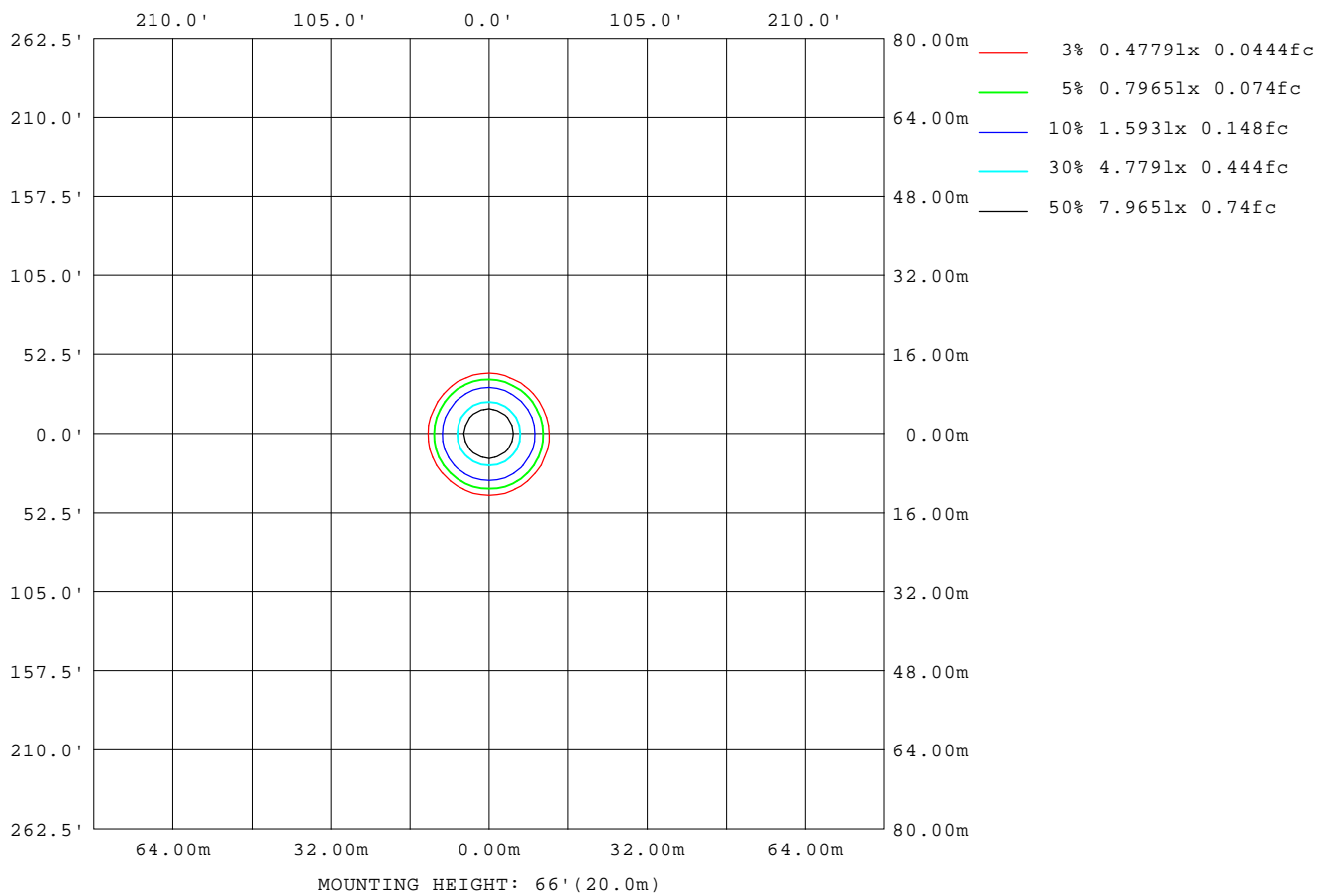
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2311041308
MFR.: RISE	SUR.: 0.00984704m2	Shielding Angle:



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Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-11-4

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

LED Avg.L Report

Test:U:120.04V I:0.2304A P:27.424W PF:0.9902 Freq:59.98Hz Lamp Flux:2796.6x1 lm		
NAME: 2318.223-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311041308
MFR.: RISE	SUR.: 0.00984704m2	Shielding Angle:

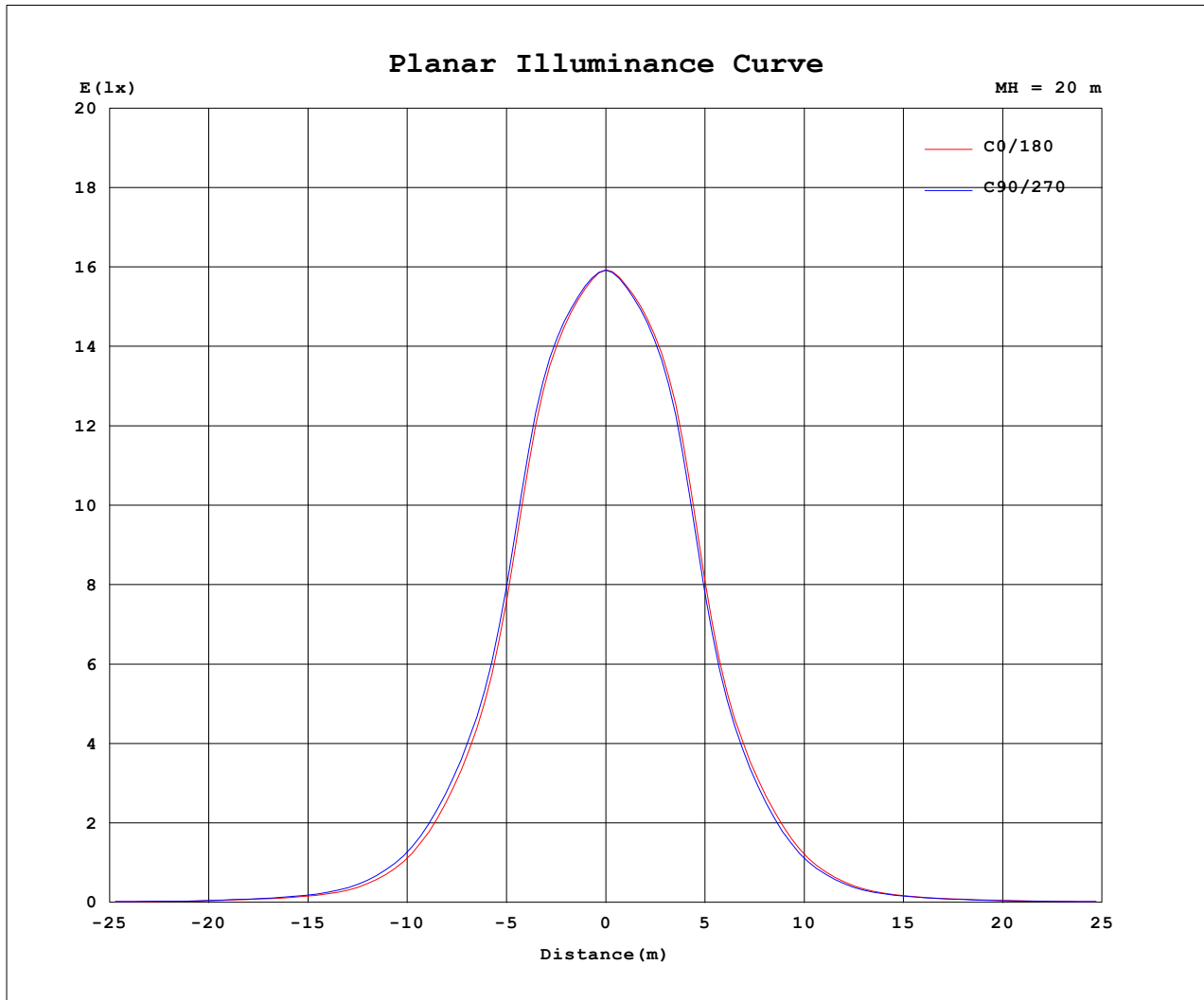
AvgL	cd/m2
L_0~180 (65) av	3795
L_0~180 (75) av	1084
L_0~180 (85) av	197
L_90~270 (65) av	2130
L_90~270 (75) av	533
L_90~270 (85) av	149
L_45 (65) av	3181
L_45 (75) av	816
L_45 (85) av	94

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-11-4

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: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: 2023-11-4

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

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.04V I:0.2304A P:27.424W PF:0.9902 Freq:59.98Hz Lamp Flux:2796.6x1 lm		
NAME: 2318.223-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311041308
MFR.: RISE	SUR.: 0.00984704m2	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	6370	6370	6370	6370	6370	6370	6370	6370	6370	6370	6370	6370						
5	6013	6033	6038	6053	6067	6077	6078	6072	6069	6045	6023	6005						
10	5029	5087	5112	5163	5202	5243	5249	5223	5205	5135	5063	5012						
15	2942	3013	3050	3092	3114	3144	3125	3082	3086	3011	2950	2913						
20	1610	1683	1711	1739	1721	1739	1710	1681	1684	1626	1594	1576						
25	808	846	893	901	902	911	876	851	841	811	778	788						
30	358	387	413	422	413	414	393	376	379	359	346	346						
35	162	173	185	189	183	182	173	165	170	162	158	156						
40	93.4	98.8	105	107	105	104	99.7	94.6	96.1	92.3	90.8	90.2						
45	57.9	60.9	61.7	61.0	62.2	64.2	61.8	59.2	56.9	54.2	55.8	56.0						
50	42.1	43.6	43.4	42.4	42.6	43.7	42.6	41.6	40.5	39.7	40.5	41.2						
55	36.6	37.9	34.9	33.1	35.0	38.0	37.3	35.7	32.6	30.6	33.0	35.7						
60	27.8	27.9	22.3	19.9	22.8	28.6	28.6	26.5	21.0	18.4	21.6	26.9						
65	15.3	15.9	10.4	8.91	10.9	16.3	16.3	15.3	10.2	8.82	10.6	15.4						
70	6.79	7.08	4.38	3.75	4.57	7.32	7.33	6.99	4.27	3.63	4.42	6.94						
75	2.66	2.55	1.62	1.43	1.62	2.67	2.87	2.57	1.53	1.29	1.56	2.50						
80	0.81	0.66	0.45	0.41	0.44	0.71	0.88	0.67	0.39	0.34	0.38	0.63						
85	0.17	0.09	0.13	0.14	0.07	0.09	0.17	0.09	0.08	0.12	0.08	0.08						
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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