

Luminaire Photograph



Light Output Ratio:	78.5%	
Luminaire Power:	19.34 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: 2023-7-14

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-30G1000-A-83 Ra:90
LENS: PM-1083A 24R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

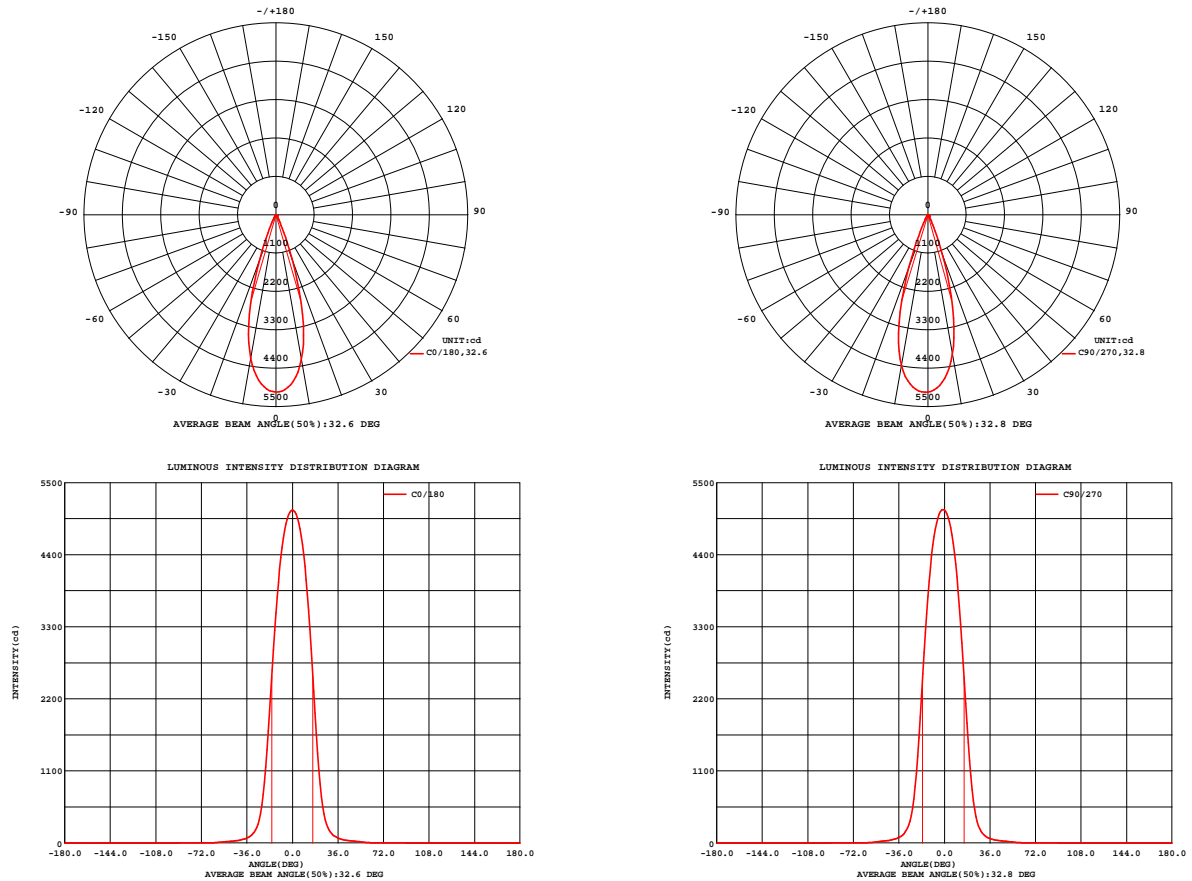


Fig. C0/C180

Fig. C90/C270

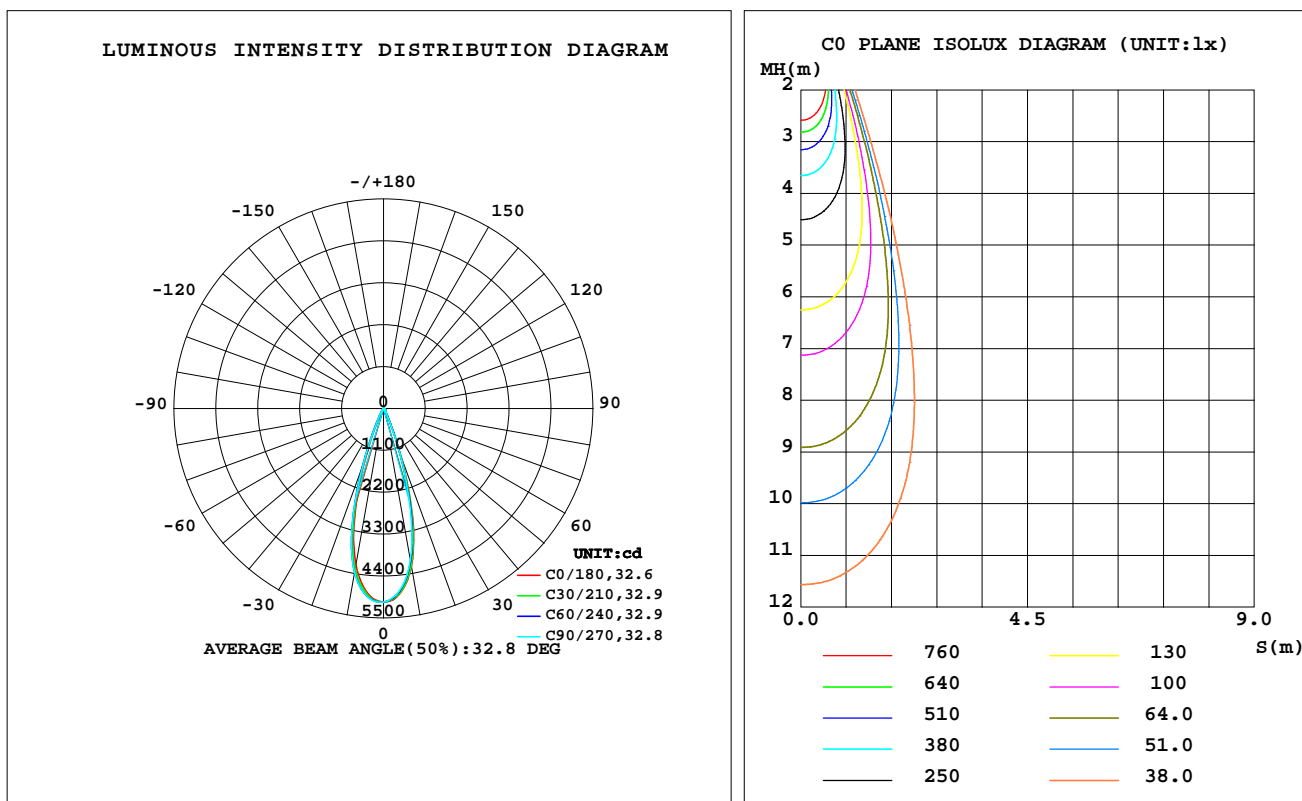
C Range: 0 - 360DEG
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.08V I:0.1619A P:19.338W PF:0.9937 Freq:59.98Hz Lamp Flux:2011.9x1 lm		
NAME: 2118.192-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307140900
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.69 lm/W			
MODEL	Bridgelux	Imax(cd)	5088	S/MH(C0/180)	0.51
NOMINAL POWER(W)	20	LOR(%)	78.5	S/MH(C90/270)	0.52
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1579.8	η UP,DN(C0-180)	0.0,37.6
NOMINAL FLUX(lm)	2011.9	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,40.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	η down(%)	78.5	CIBSE SHR MAX	0.50



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30minutes warm-up

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	4216	4143	4058	4074	4177	4329	4382	4309	0- 10	444.8	444.8	28.2,22.1
20	1370	1306	1257	1315	1420	1572	1609	1496	10- 20	782.0	1227	77.7,61
30	168.7	160.2	151.4	157.5	165.4	182.8	190.7	184.5	20- 30	250.6	1477	93.5,73.4
40	52.05	49.40	46.57	46.53	49.41	52.99	54.37	53.61	30- 40	57.58	1535	97.2,76.3
50	25.71	24.44	22.89	22.92	23.79	24.90	25.14	25.83	40- 50	27.09	1562	98.9,77.6
60	6.018	5.541	4.901	5.912	6.723	5.883	4.975	5.706	50- 60	13.33	1575	99.7,78.3
70	1.549	1.517	1.481	1.638	1.718	1.450	1.290	1.377	60- 70	2.995	1578	99.9,78.5
80	0.6457	0.5886	0.5375	0.6465	0.7683	0.5708	0.4798	0.5200	70- 80	1.098	1580	100,78.5
90	0	0	0	0	0	0	0	0	80- 90	0.2452	1580	100,78.5
100	0	0	0	0	0	0	0	0	90-100	0	1580	100,78.5
110	0	0	0	0	0	0	0	0	100-110	0	1580	100,78.5
120	0	0	0	0	0	0	0	0	110-120	0	1580	100,78.5
130	0	0	0	0	0	0	0	0	120-130	0	1580	100,78.5
140	0	0	0	0	0	0	0	0	130-140	0	1580	100,78.5
150	0	0	0	0	0	0	0	0	140-150	0	1580	100,78.5
160	0	0	0	0	0	0	0	0	150-160	0	1580	100,78.5
170	0	0	0	0	0	0	0	0	160-170	0	1580	100,78.5
180	0	0	0	0	0	0	0	0	170-180	0	1580	100,78.5
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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γ Range: 0 - 180DEG
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LENS:PM-1083A 24R
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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.08V I:0.1619A P:19.338W PF:0.9937 Freq:59.98Hz
Lamp Flux:2011.9x1 lm

NAME: 2118.192-LEA-15

TYPE:

WEIGHT:

SPEC.: 3000K

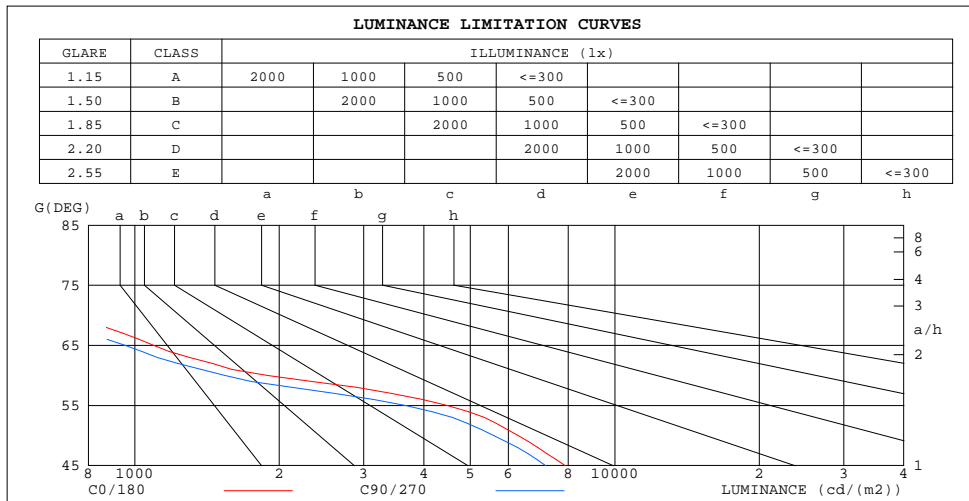
DIM.:

SERIAL No.: 2307140900

MFR.: RISE

SUR.: 0.0063585m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	428	276
80	585	487
75	688	618
70	712	681
65	1095	955
60	1893	1541
55	4484	3673
50	6292	5600
45	7890	7181

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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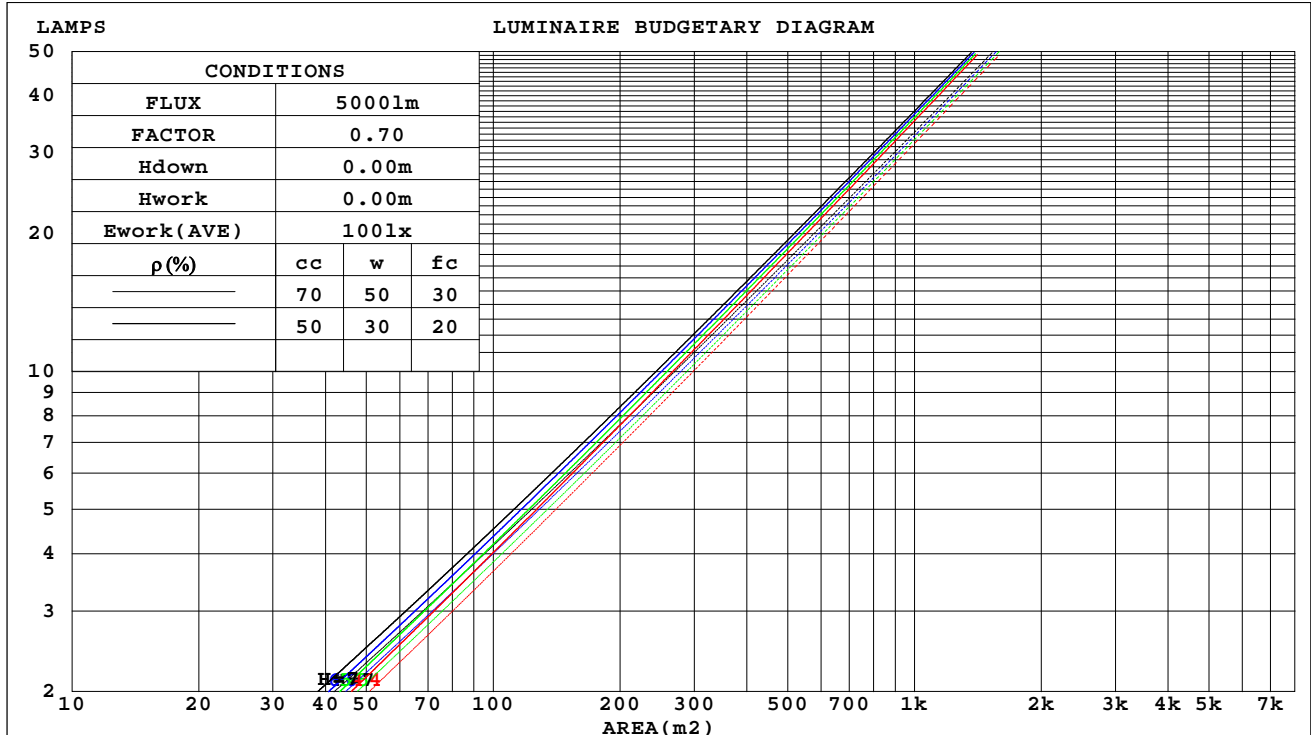
SERIAL No.: 2307140900

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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NAME: 2118.192-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307140900
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	.112	.064	.020	.107	.061	.019	.097	.056	.018	.089	.051	.016	.080	.047	.015	
2.0	.105	.057	.018	.100	.055	.017	.092	.051	.016	.085	.048	.015	.078	.044	.014	
3.0	.098	.052	.016	.094	.051	.015	.088	.048	.014	.081	.045	.014	.076	.042	.013	
4.0	.092	.048	.014	.089	.047	.014	.083	.044	.013	.078	.042	.013	.073	.040	.012	
5.0	.087	.044	.013	.084	.043	.013	.080	.041	.012	.075	.040	.012	.071	.038	.011	
6.0	.082	.041	.012	.080	.041	.012	.076	.039	.011	.072	.037	.011	.068	.036	.011	
7.0	.078	.039	.011	.077	.038	.011	.073	.037	.011	.069	.036	.010	.066	.034	.010	
8.0	.075	.037	.010	.073	.036	.010	.070	.035	.010	.067	.034	.010	.064	.033	.010	
9.0	.072	.035	.010	.070	.034	.010	.067	.033	.009	.065	.032	.009	.062	.031	.009	
10.0	.069	.033	.009	.067	.033	.009	.065	.032	.009	.062	.031	.009	.060	.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	.150	.150	.150	.128	.128	.128	.087	.087	.087	.050	.050	.050	.016	.016	.016		
1.0	.133	.124	.116	.113	.106	.100	.078	.073	.069	.045	.042	.040	.014	.014	.013		
2.0	.119	.104	.092	.102	.090	.080	.070	.062	.055	.040	.036	.033	.013	.012	.011		
3.0	.107	.089	.074	.092	.077	.065	.063	.053	.045	.036	.031	.027	.012	.010	.009		
4.0	.098	.077	.061	.084	.067	.053	.058	.046	.037	.033	.027	.022	.011	.009	.007		
5.0	.090	.067	.051	.077	.058	.044	.053	.041	.031	.031	.024	.019	.010	.008	.006		
6.0	.083	.060	.043	.071	.052	.037	.049	.036	.027	.028	.021	.016	.009	.007	.005		
7.0	.077	.053	.037	.066	.046	.032	.046	.032	.023	.027	.019	.013	.009	.006	.004		
8.0	.072	.048	.032	.062	.042	.028	.043	.029	.020	.025	.017	.012	.008	.006	.004		
9.0	.068	.044	.027	.058	.038	.024	.040	.027	.017	.024	.016	.010	.008	.005	.003		
10.0	.064	.040	.024	.055	.035	.021	.038	.024	.015	.022	.014	.009	.007	.005	.003		

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30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:120.08V I:0.1619A P:19.338W PF:0.9937 Freq:59.98Hz Lamp Flux:2011.9x1 lm										
NAME: 2118.192-LEA-15					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2307140900		
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	7.3	8.0	7.5	8.2	8.3	6.7	7.4	6.9	7.6	7.7
3H	7.3	7.9	7.5	8.1	8.3	6.7	7.3	6.9	7.5	7.7
4H	7.2	7.8	7.5	8.0	8.2	6.6	7.2	6.9	7.4	7.6
6H	7.1	7.7	7.4	7.9	8.2	6.5	7.1	6.8	7.3	7.6
8H	7.1	7.7	7.4	7.9	8.2	6.5	7.1	6.8	7.3	7.6
12H	7.1	7.6	7.4	7.9	8.1	6.5	7.0	6.8	7.3	7.5
4H 2H	7.2	7.8	7.5	8.0	8.2	6.7	7.3	6.9	7.5	7.7
3H	7.1	7.7	7.4	7.9	8.2	6.6	7.1	6.9	7.4	7.6
4H	7.1	7.6	7.4	7.9	8.2	6.5	7.0	6.8	7.3	7.6
6H	7.0	7.4	7.4	7.8	8.1	6.4	6.9	6.8	7.2	7.5
8H	7.0	7.4	7.4	7.7	8.1	6.4	6.8	6.8	7.2	7.5
12H	6.9	7.3	7.3	7.7	8.1	6.4	6.7	6.8	7.1	7.5
8H 4H	6.9	7.3	7.3	7.7	8.1	6.4	6.8	6.8	7.1	7.5
6H	6.9	7.2	7.3	7.6	8.0	6.3	6.7	6.7	7.0	7.5
8H	6.8	7.1	7.3	7.6	8.0	6.3	6.6	6.7	7.0	7.4
12H	6.8	7.1	7.3	7.5	8.0	6.2	6.5	6.7	6.9	7.4
12H 4H	6.9	7.3	7.3	7.6	8.0	6.3	6.7	6.7	7.1	7.5
6H	6.8	7.1	7.3	7.5	8.0	6.3	6.6	6.7	7.0	7.4
8H	6.8	7.0	7.3	7.5	8.0	6.2	6.5	6.7	6.9	7.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.0 / - 3.2					+ 2.0 / - 3.9				
1.5H	+ 2.2 / - 1.6					+ 1.9 / - 2.1				
2.0H	+ 3.2 / - 6.1					+ 3.5 / - 6.1				

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

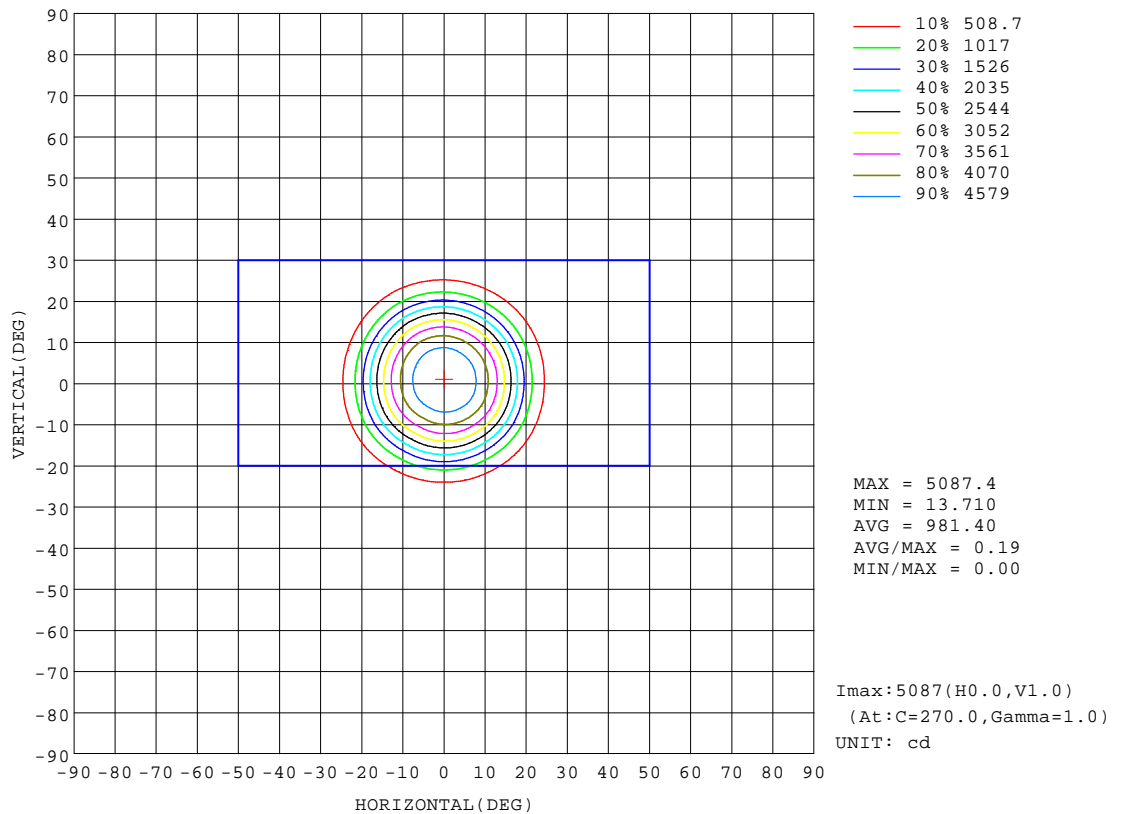
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	70	66	63	70	66	63	70	65	63	60
0.80	76	72	69	76	72	69	75	71	69	66
1.00	79	75	73	79	75	72	77	75	72	69
1.25	82	78	76	81	78	76	80	77	75	72
1.50	84	81	78	83	80	78	81	79	77	74
2.00	86	83	81	85	82	80	83	81	79	75
2.50	87	84	82	86	83	81	84	82	80	75
3.00	88	86	84	87	85	83	84	83	81	76
4.00	90	88	86	88	86	85	85	84	83	77
5.00	91	89	88	89	88	86	86	85	84	78
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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SPEC.: 3000K	DIM.:	SERIAL No.: 2307140900
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

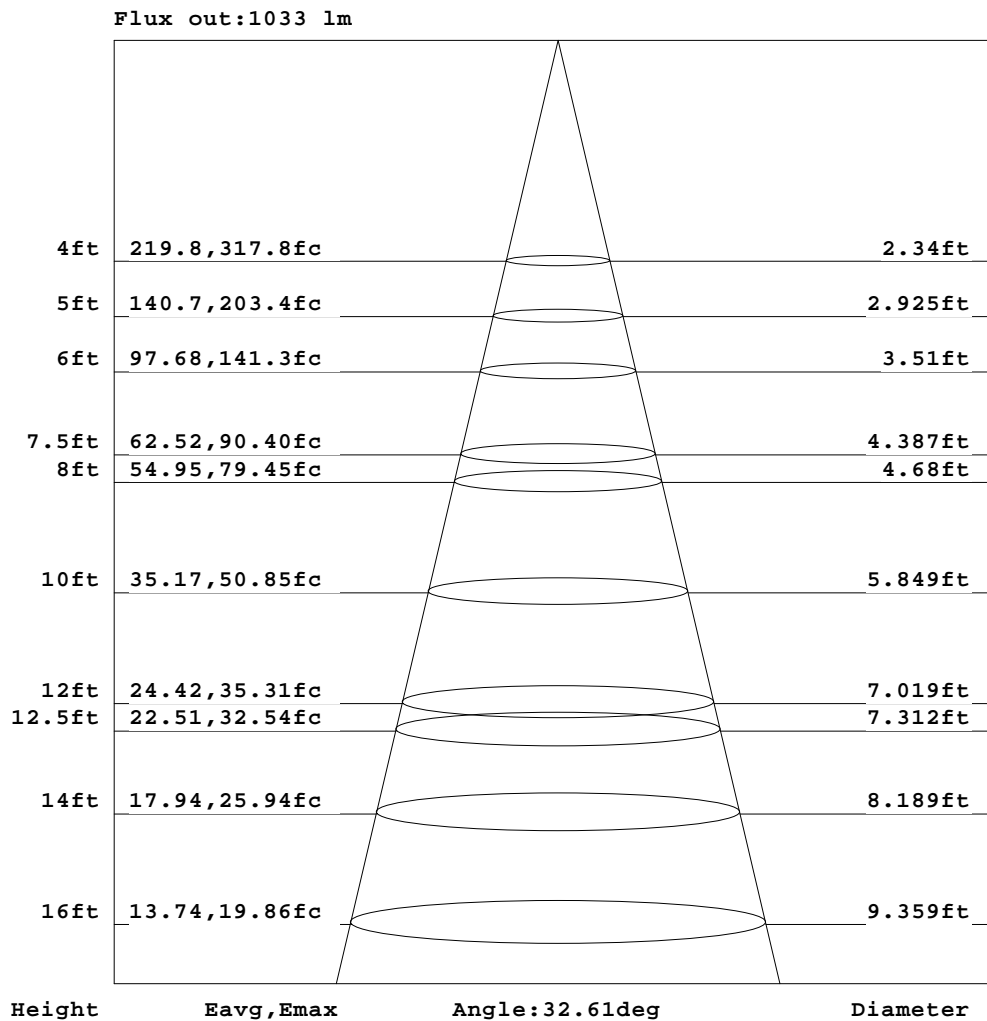


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AAI Figure

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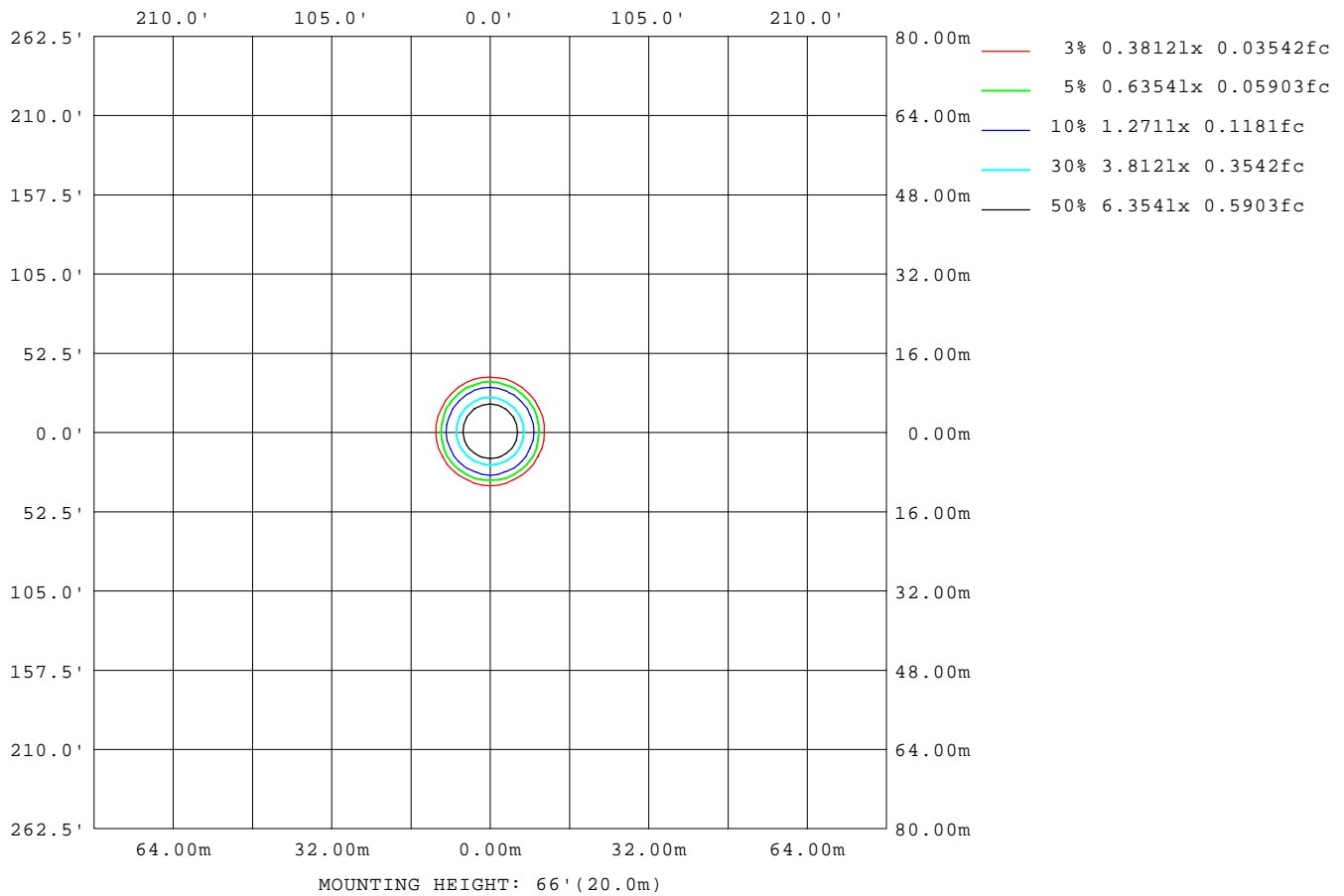
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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



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Test Date:2023-7-14

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-30G1000-A-83 Ra:90
LENS:PM-1083A 24R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

LED Avg.L Report

Test:U:120.08V I:0.1619A P:19.338W PF:0.9937 Freq:59.98Hz Lamp Flux:2011.9x1 lm		
NAME: 2118.192-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307140900
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

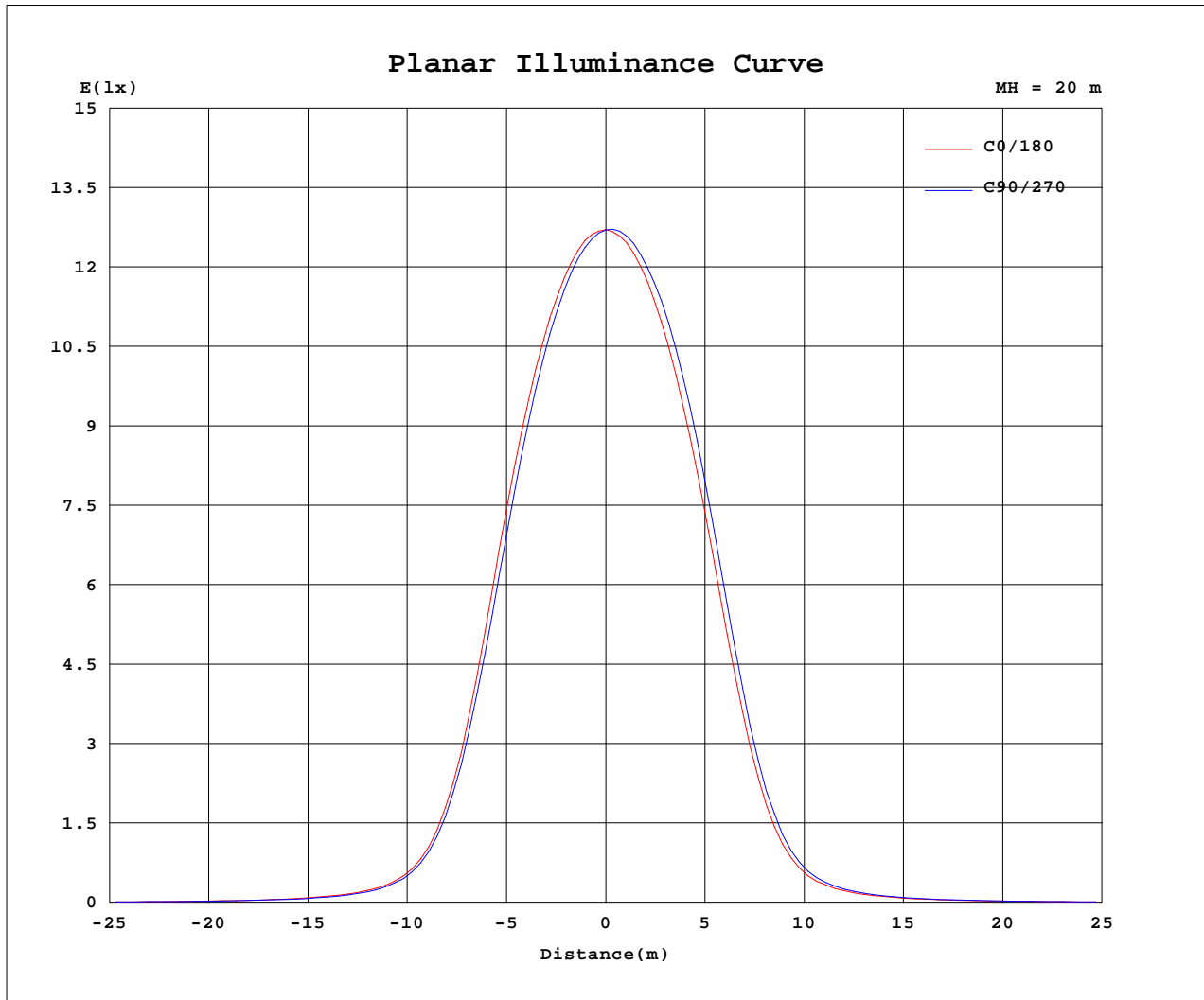
AvgL	cd/m2
L_0~180(65)av	1129
L_0~180(75)av	710
L_0~180(85)av	516
L_90~270(65)av	950
L_90~270(75)av	586
L_90~270(85)av	245
L_45(65)av	1058
L_45(75)av	636
L_45(85)av	304

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

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-30G1000-A-83 Ra:90
LENS:PM-1083A 24R
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

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-30G1000-A-83 Ra: 90
 LENS: PM-1083A 24R
 DRIVER: PUP20A-1WMC 500mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.08V I:0.1619A P:19.338W PF:0.9937 Freq:59.98Hz Lamp Flux:2011.9x1 lm		
NAME: 2118.192-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307140900
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

Table--1

UNIT: cd

C(DEC)	0	30	60	90	120	150	180	210	240	270	300	330						
γ (DEC)	0	30	60	90	120	150	180	210	240	270	300	330						
0	5083	5083	5083	5083	5083	5083	5083	5083	5083	5083	5083	5083						
5	4887	4869	4829	4812	4804	4831	4865	4907	4950	4955	4943	4913						
10	4216	4185	4100	4058	4027	4120	4177	4283	4375	4382	4329	4289						
15	2965	2914	2793	2747	2741	2878	2947	3080	3211	3211	3127	3058						
20	1370	1351	1260	1257	1259	1372	1420	1517	1626	1609	1526	1465						
25	441	434	403	402	406	449	457	492	539	531	503	480						
30	169	165	155	151	152	163	165	175	190	191	188	181						
35	88.0	85.1	80.1	77.6	77.1	81.1	83.8	89.4	93.4	93.9	93.3	91.3						
40	52.1	50.6	48.2	46.6	46.0	47.1	49.4	52.0	54.0	54.4	54.2	53.0						
45	35.5	34.4	33.3	32.3	31.6	31.6	33.1	34.7	36.0	36.2	36.3	35.9						
50	25.7	25.0	23.9	22.9	22.8	23.1	23.8	24.6	25.2	25.1	25.8	25.8						
55	16.4	16.0	14.1	13.4	14.1	15.4	15.7	16.1	14.8	14.2	16.2	16.4						
60	6.02	6.04	5.04	4.90	5.23	6.60	6.72	6.58	5.18	4.98	5.48	5.93						
65	2.94	2.96	2.64	2.57	2.76	3.14	3.13	2.99	2.64	2.54	2.70	2.86						
70	1.55	1.57	1.46	1.48	1.50	1.77	1.72	1.57	1.33	1.29	1.29	1.46						
75	1.13	1.10	1.05	1.02	1.09	1.18	1.20	1.07	0.96	0.91	0.93	1.02						
80	0.65	0.62	0.56	0.54	0.59	0.70	0.77	0.63	0.52	0.48	0.49	0.55						
85	0.24	0.21	0.15	0.15	0.17	0.25	0.34	0.21	0.13	0.12	0.12	0.15						
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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Operators:zoe
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