

Luminaire Photograph



Light Output Ratio:	88.0%	
Luminaire Power:	15.01 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.60	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2024-12-3

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-30G10TH-A-83 Ra: 90
LENS: PM-1109B 36R
NOT DRIVER: 48V
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

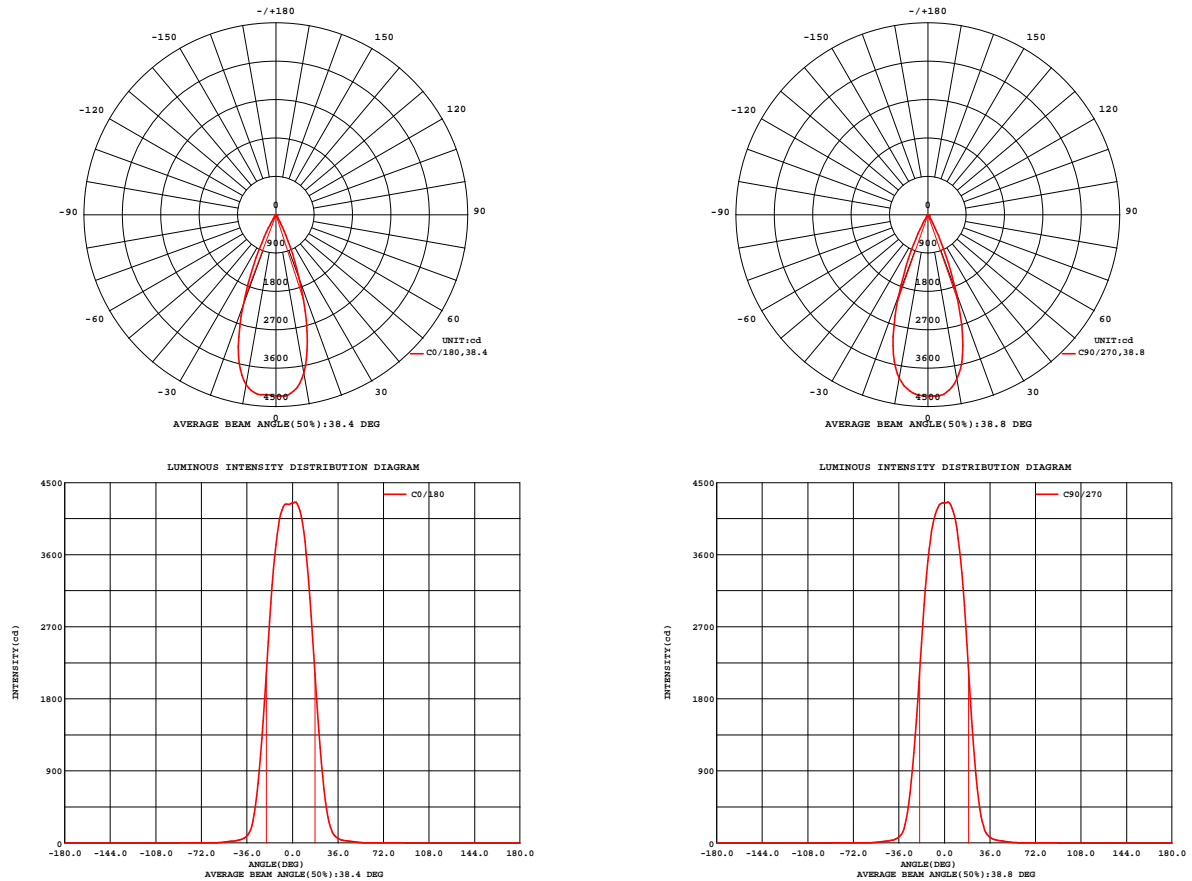


Fig. C0/C180

Fig. C90/C270

C Range: 0 - 360DEG
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Temperature: 25.3 °C
Operators: zoe
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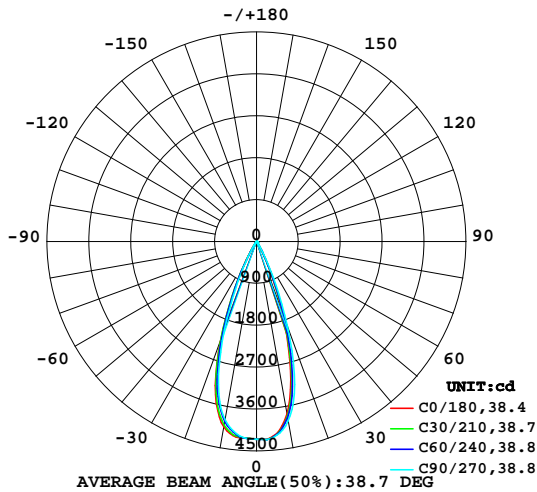
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:47.997V I:0.3128A P:15.014W PF:1.0000 Freq:49.99Hz
Lamp Flux:1994.6x1 lm

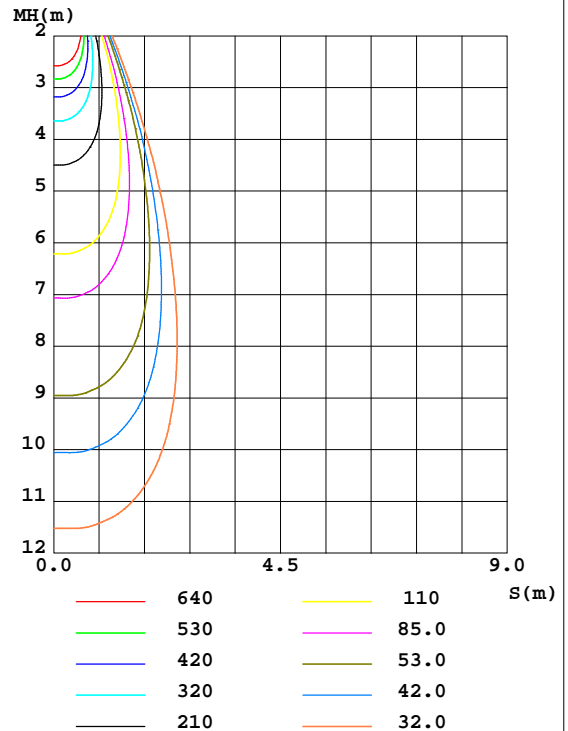
NAME: OZ48-CA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412031437
MFR.: RISE	SUR.: 0.002732585m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 116.93 lm/W			
MODEL	Brideglux	I _{max} (cd)	4260	S/MH(C0/180)	0.62
NOMINAL POWER(W)	15	LOR(%)	88.0	S/MH(C90/270)	0.60
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	1755.6	η UP,DN(C0-180)	0.0,42.9
NOMINAL FLUX(lm)	1994.6	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,45.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	48	η down(%)	88.0	CIBSE SHR MAX	0.60

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-12-3

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]
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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	3764	3826	3914	3990	4046	3968	3890	3793	0- 10	392.2	392.2	22.3,19.7
20	1619	1714	1952	2200	2257	2222	2009	1773	10- 20	839.4	1232	70.2,61.7
30	200.6	220.1	263.0	323.8	361.1	354.5	294.7	237.3	20- 30	429.4	1661	94.6,83.3
40	34.54	37.74	41.58	45.87	46.28	44.04	39.63	36.45	30- 40	67.19	1728	98.4,86.6
50	12.40	13.78	15.61	16.98	18.15	17.28	15.80	14.36	40- 50	20.10	1748	99.6,87.7
60	1.212	1.448	1.877	2.222	2.950	2.596	2.046	1.672	50- 60	6.565	1755	100,88
70	0.1539	0.1333	0.1447	0.1641	0.1714	0.1595	0.1531	0.1372	60- 70	0.5985	1755	100,88
80	0.0735	0.0487	0.0595	0.0569	0.0756	0.0574	0.0652	0.0503	70- 80	0.0967	1756	100,88
90	0	0	0	0	0	0	0	0	80- 90	0.0515	1756	100,88
100	0	0	0	0	0	0	0	0	90-100	0	1756	100,88
110	0	0	0	0	0	0	0	0	100-110	0	1756	100,88
120	0	0	0	0	0	0	0	0	110-120	0	1756	100,88
130	0	0	0	0	0	0	0	0	120-130	0	1756	100,88
140	0	0	0	0	0	0	0	0	130-140	0	1756	100,88
150	0	0	0	0	0	0	0	0	140-150	0	1756	100,88
160	0	0	0	0	0	0	0	0	150-160	0	1756	100,88
170	0	0	0	0	0	0	0	0	160-170	0	1756	100,88
180	0	0	0	0	0	0	0	0	170-180	0	1756	100,88
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

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Lamp Flux:1994.6x1 lm

NAME: OZ48-CA

TYPE:

WEIGHT:

SPEC.: 3000K

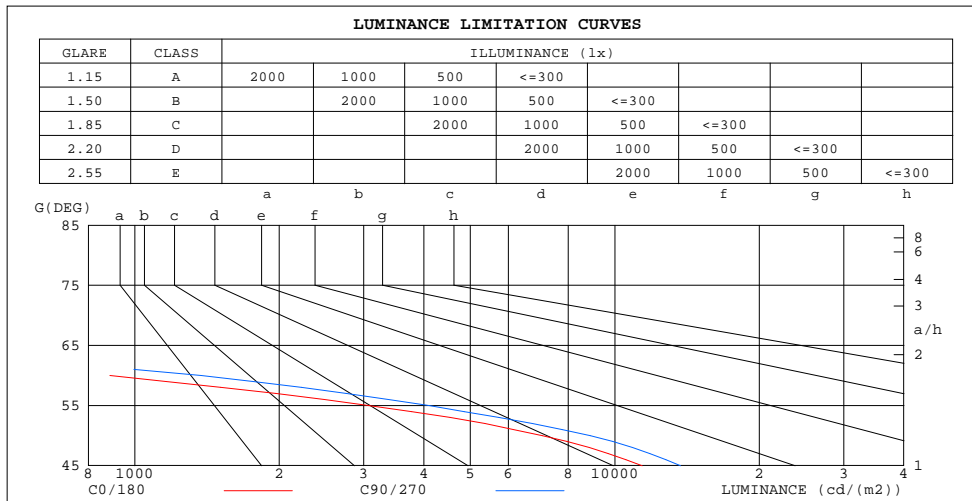
DIM.:

SERIAL No.: 2412031437

MFR.: RISE

SUR.: 0.002732585m2

Shielding Angle:



C Range: 0 - 360DEG
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

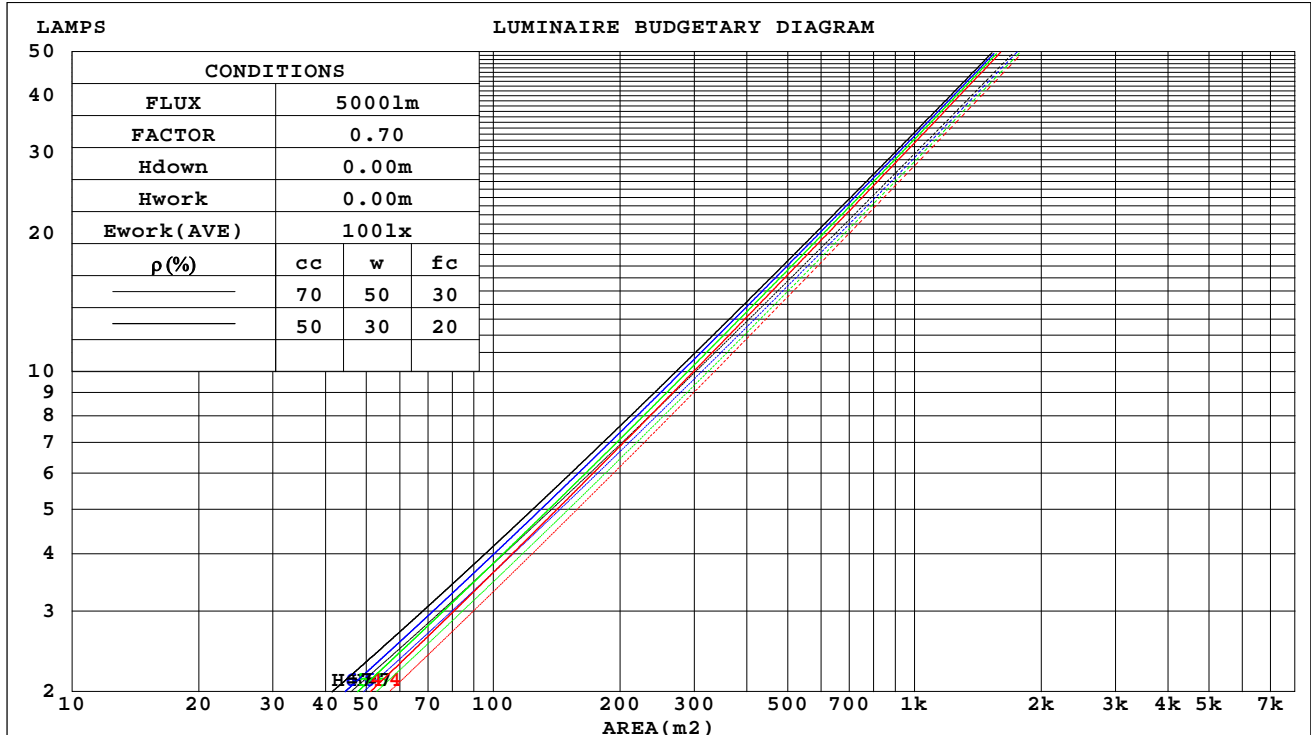
SERIAL No.: 2412031437

MFR.: RISE

SUR.: 0.002732585m2

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: OZ48-CA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412031437
MFR.: RISE	SUR.: 0.002732585m2	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	.129	.074	.023	.124	.071	.022	.113	.065	.021	.103	.059	.019	.093	.054	.017	
2.0	.121	.066	.020	.116	.064	.020	.107	.060	.019	.099	.055	.017	.091	.052	.016	
3.0	.114	.061	.018	.110	.059	.018	.102	.055	.017	.095	.052	.016	.089	.049	.015	
4.0	.107	.056	.016	.104	.054	.016	.097	.052	.015	.091	.049	.015	.086	.047	.014	
5.0	.102	.052	.015	.099	.051	.015	.093	.049	.014	.088	.046	.014	.083	.044	.013	
6.0	.097	.049	.014	.094	.048	.014	.089	.046	.013	.085	.044	.013	.081	.043	.013	
7.0	.092	.046	.013	.090	.045	.013	.086	.043	.013	.082	.042	.012	.078	.041	.012	
8.0	.088	.043	.012	.086	.043	.012	.083	.041	.012	.079	.040	.012	.076	.039	.011	
9.0	.085	.041	.011	.083	.040	.011	.080	.039	.011	.077	.038	.011	.074	.037	.011	
10.0	.081	.039	.011	.080	.039	.011	.077	.038	.011	.074	.037	.010	.072	.036	.010	

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	.168	.168	.168	.143	.143	.143	.098	.098	.098	.056	.056	.056	.018	.018	.018		
1.0	.149	.139	.130	.127	.119	.112	.087	.082	.077	.050	.047	.045	.016	.015	.015		
2.0	.133	.117	.103	.114	.101	.089	.078	.070	.062	.045	.040	.036	.014	.013	.012		
3.0	.121	.100	.083	.104	.086	.072	.071	.060	.050	.041	.035	.030	.013	.011	.010		
4.0	.110	.086	.068	.095	.075	.059	.065	.052	.042	.038	.030	.025	.012	.010	.008		
5.0	.102	.076	.057	.087	.066	.049	.060	.046	.035	.035	.027	.021	.011	.009	.007		
6.0	.094	.067	.048	.081	.058	.041	.056	.041	.029	.032	.024	.017	.010	.008	.006		
7.0	.088	.060	.041	.076	.052	.035	.052	.037	.025	.030	.022	.015	.010	.007	.005		
8.0	.083	.054	.035	.071	.047	.030	.049	.033	.022	.029	.019	.013	.009	.006	.004		
9.0	.078	.049	.030	.067	.043	.026	.046	.030	.019	.027	.018	.011	.009	.006	.004		
10.0	.074	.045	.027	.064	.039	.023	.044	.028	.016	.026	.016	.010	.008	.005	.003		

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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
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LENS:PM-1109B 36R
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30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:47.997V I:0.3128A P:15.014W PF:1.0000 Freq:49.99Hz Lamp Flux:1994.6x1 lm										
NAME: OZ48-CA					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2412031437		
MFR.: RISE					SUR.: 0.002732585m2			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	7.5	8.2	7.7	8.4	8.5	8.4	9.1	8.6	9.3	9.4
3H	7.3	8.0	7.6	8.2	8.4	8.2	8.9	8.5	9.1	9.3
4H	7.3	7.9	7.5	8.1	8.3	8.1	8.8	8.4	9.0	9.2
6H	7.2	7.8	7.5	8.0	8.2	8.0	8.7	8.3	8.9	9.1
8H	7.1	7.7	7.4	8.0	8.2	8.0	8.6	8.3	8.8	9.1
12H	7.1	7.6	7.4	7.9	8.2	8.0	8.5	8.3	8.8	9.0
4H 2H	7.3	7.9	7.5	8.1	8.3	8.2	8.8	8.4	9.0	9.2
3H	7.1	7.7	7.4	7.9	8.2	8.0	8.5	8.3	8.8	9.1
4H	7.0	7.5	7.3	7.8	8.1	7.9	8.4	8.2	8.7	9.0
6H	6.9	7.4	7.3	7.7	8.0	7.8	8.2	8.2	8.6	8.9
8H	6.9	7.3	7.2	7.6	8.0	7.7	8.1	8.1	8.5	8.9
12H	6.8	7.2	7.2	7.6	7.9	7.7	8.1	8.1	8.4	8.8
8H 4H	6.9	7.3	7.2	7.6	8.0	7.7	8.1	8.1	8.5	8.9
6H	6.7	7.1	7.2	7.5	7.9	7.6	8.0	8.0	8.4	8.8
8H	6.7	7.0	7.1	7.4	7.8	7.6	7.9	8.0	8.3	8.7
12H	6.6	6.9	7.1	7.3	7.8	7.5	7.8	8.0	8.2	8.7
12H 4H	6.8	7.2	7.2	7.6	7.9	7.7	8.1	8.1	8.4	8.8
6H	6.7	7.0	7.1	7.4	7.8	7.6	7.9	8.0	8.3	8.7
8H	6.6	6.9	7.1	7.3	7.8	7.5	7.8	8.0	8.2	8.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.7 / -10.1					+ 3.3 / - 9.1				
1.5H	+ 3.6 / - 6.5					+ 4.3 / - 6.6				
2.0H	+ 5.4 / -17.1					+ 5.6 / -17.0				

CIE Pub.117, 1995 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.4)
Area: 0.00273258 m2

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UTILIZATION FACTORS TABLE

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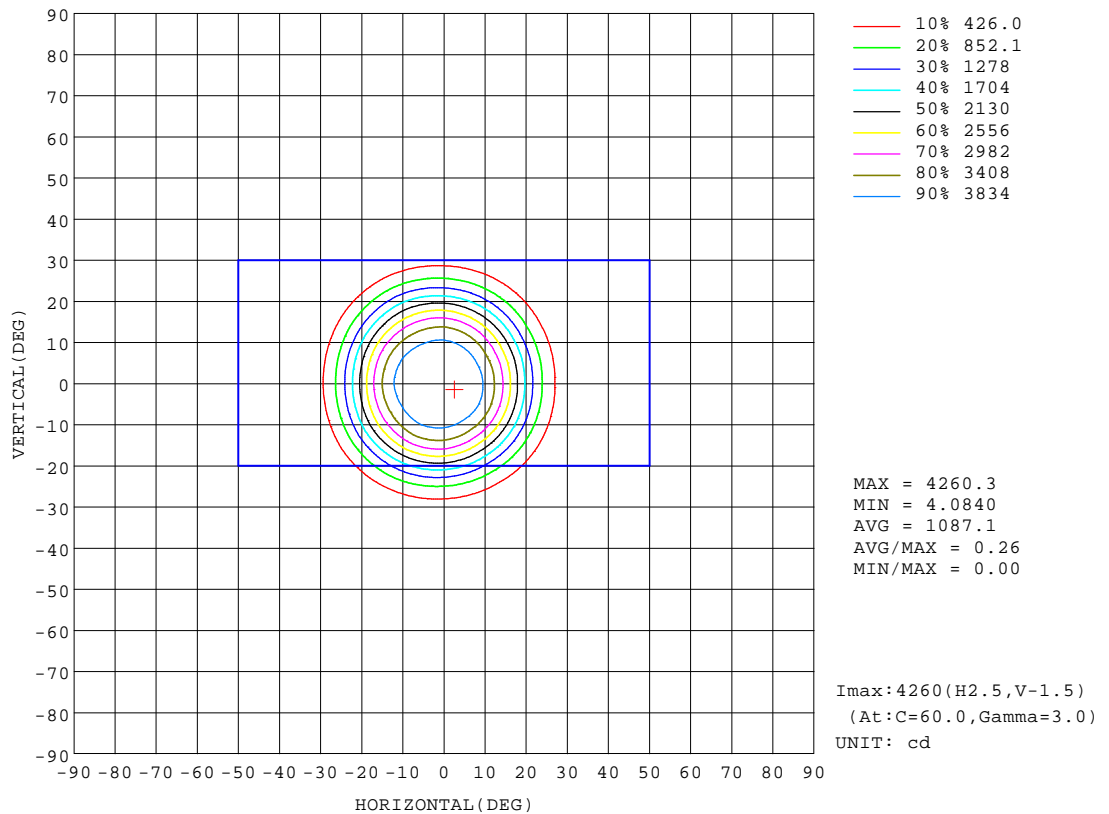
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	80	75	72	79	75	72	79	74	71	69
0.80	86	81	78	85	81	78	84	80	78	75
1.00	89	85	82	89	84	82	87	84	81	78
1.25	92	88	86	92	88	85	90	87	85	81
1.50	95	91	88	94	90	88	92	89	87	83
2.00	97	93	91	95	92	90	93	91	89	84
2.50	98	95	92	97	94	92	94	92	90	85
3.00	99	96	94	98	95	93	95	93	91	86
4.00	101	99	97	99	97	96	96	94	93	87
5.00	102	100	99	100	98	97	96	95	94	88
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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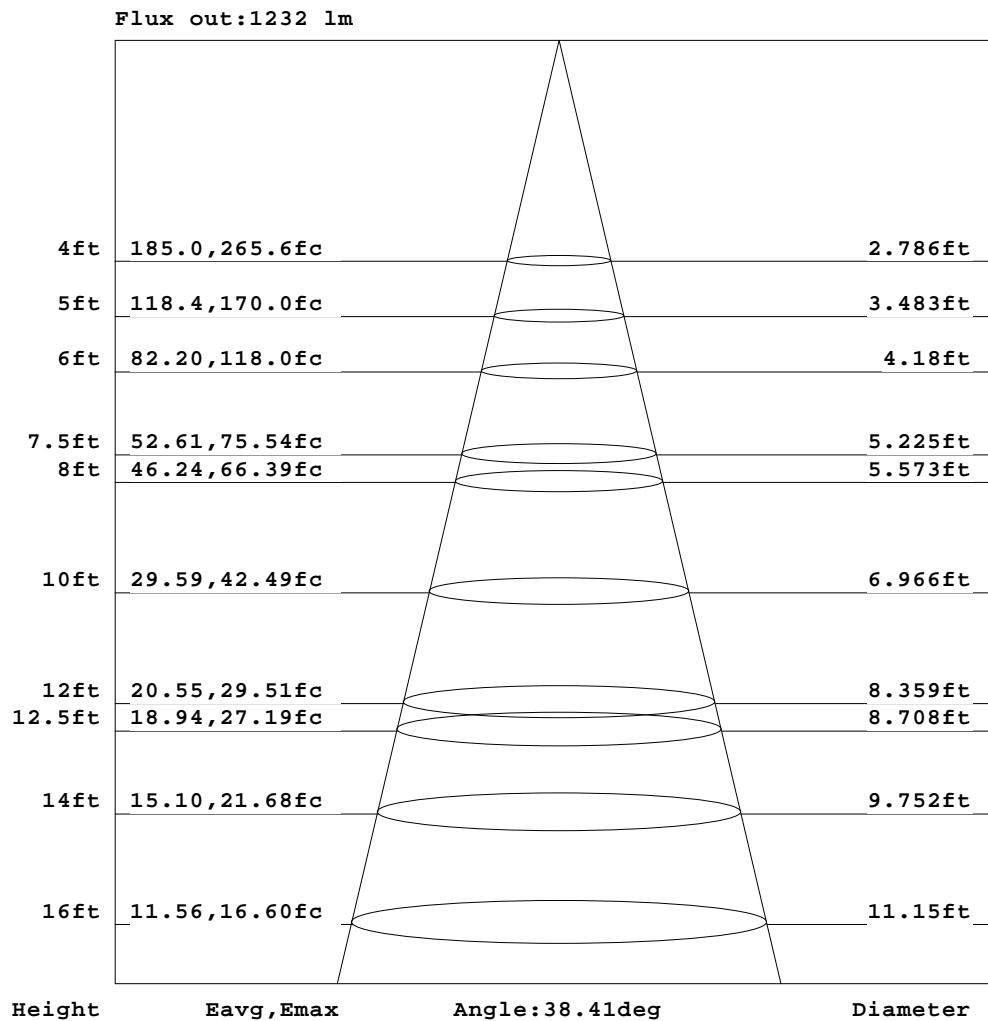


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AAI Figure

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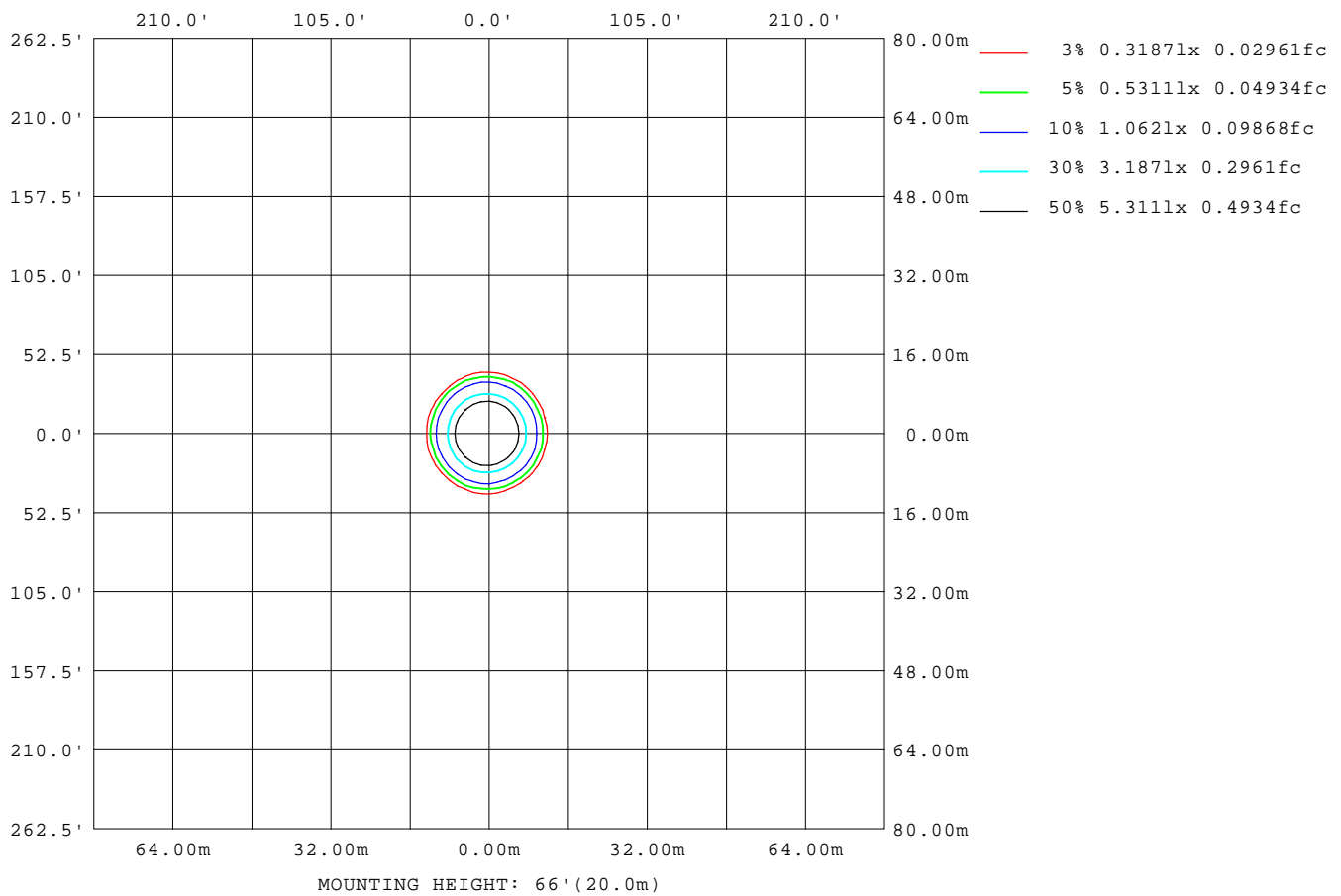
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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30minutes warm-up

LED Avg.L Report

Test:U:47.997V I:0.3128A P:15.014W PF:1.0000 Freq:49.99Hz Lamp Flux:1994.6x1 lm		
NAME: OZ48-CA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412031437
MFR.: RISE	SUR.: 0.002732585m2	Shielding Angle:

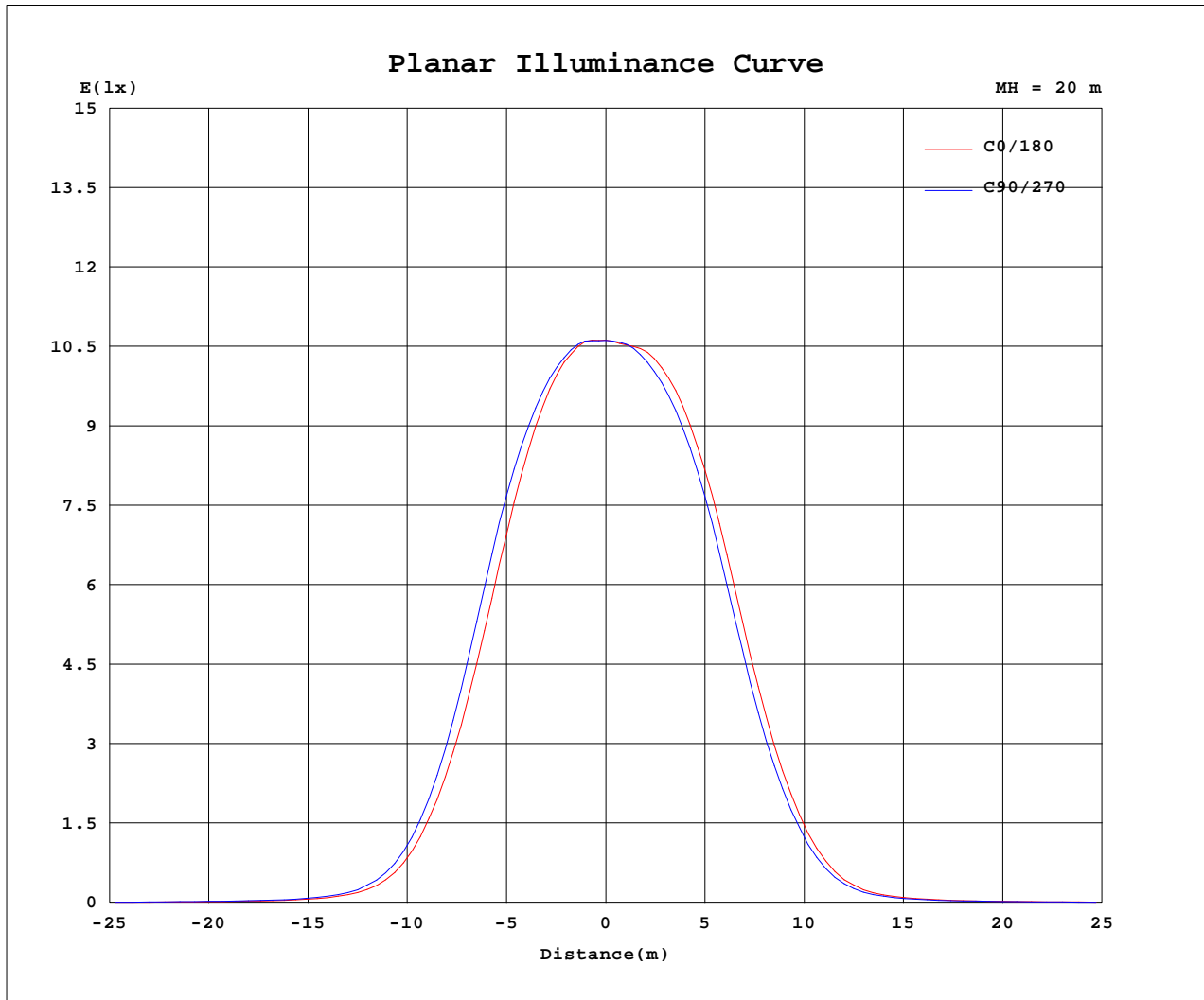
AvgL	cd/m2
L_0~180(65)av	375
L_0~180(75)av	140
L_0~180(85)av	280
L_90~270(65)av	284
L_90~270(75)av	125
L_90~270(85)av	234
L_45(65)av	321
L_45(75)av	114
L_45(85)av	172

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-12-3

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-30G10TH-A-83 Ra:90
LENS:PM-1109B 36R
NOT DRIVER:48V
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: 2024-12-3

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-30G10TH-A-83 Ra: 90
 LENS: PM-1109B 36R
 NOT DRIVER: 48V
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:47.997V I:0.3128A P:15.014W PF:1.0000 Freq:49.99Hz Lamp Flux:1994.6x1 lm		
NAME: OZ48-CA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412031437
MFR.: RISE	SUR.: 0.002732585m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	4247	4247	4247	4247	4247	4247	4247	4247	4247	4247	4247	4247						
5	4190	4211	4212	4224	4237	4237	4231	4220	4207	4187	4182	4180						
10	3764	3815	3838	3914	3980	3999	4046	4007	3929	3890	3824	3762						
15	2832	2900	2992	3183	3319	3360	3413	3367	3267	3181	3031	2871						
20	1619	1677	1752	1952	2142	2259	2257	2258	2186	2009	1853	1692						
25	670	702	720	846	990	1094	1105	1128	1082	943	834	718						
30	201	218	222	263	302	346	361	366	343	295	259	215						
35	69.8	74.0	78.9	88.1	96.6	106	108	103	95.8	90.0	80.4	71.6						
40	34.5	37.1	38.4	41.6	44.8	46.9	46.3	45.5	42.6	39.6	37.6	35.3						
45	22.0	24.0	25.0	26.5	26.7	28.1	27.2	27.5	25.6	25.3	24.7	23.5						
50	12.4	13.3	14.3	15.6	16.1	17.9	18.2	18.1	16.5	15.8	15.1	13.7						
55	4.81	5.17	5.81	6.44	6.79	7.94	8.71	8.55	7.60	6.91	6.58	5.56						
60	1.21	1.36	1.54	1.88	1.93	2.51	2.95	2.84	2.36	2.05	1.88	1.47						
65	0.28	0.26	0.27	0.31	0.36	0.48	0.58	0.56	0.47	0.35	0.31	0.27						
70	0.15	0.13	0.13	0.14	0.16	0.17	0.17	0.16	0.16	0.15	0.14	0.14						
75	0.10	0.07	0.07	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.08	0.08						
80	0.07	0.05	0.05	0.06	0.06	0.06	0.08	0.06	0.06	0.07	0.05	0.05						
85	0.07	0.04	0.04	0.05	0.04	0.04	0.07	0.04	0.04	0.06	0.04	0.05						
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						

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C Interval: 30.0DEG
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