

Luminaire Photograph



Light Output Ratio:	83.1%	
Luminaire Power:	14.96 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.80	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

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-30G10TH-A-83 Ra: 90
LENS: PM-1109C 50R
NOT DRIVER: 48V
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

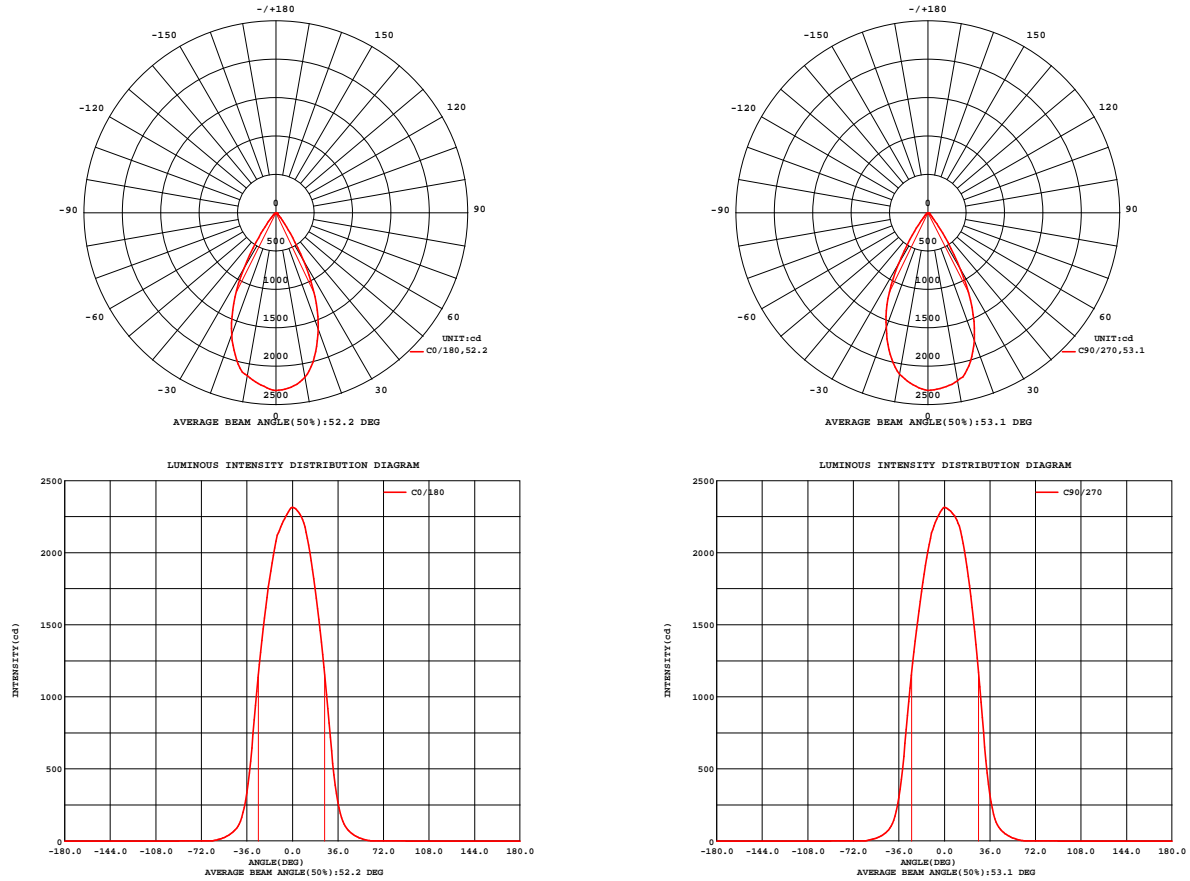


Fig. C0/C180

Fig. C90/C270

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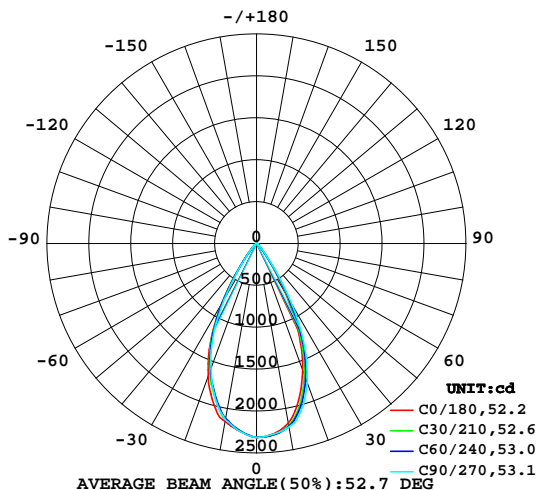
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:47.997V I:0.3116A P:14.956W PF:1.0000 Freq:49.99Hz
Lamp Flux:1994.6x1 lm

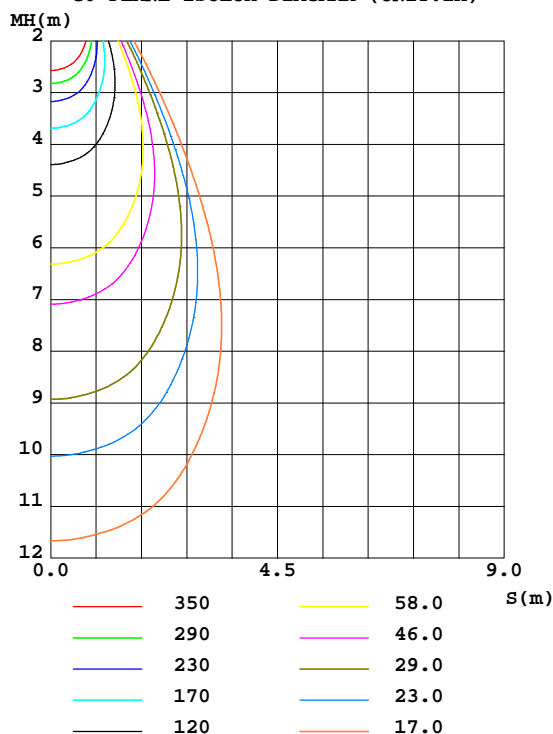
NAME: OZ48-CA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412031438
MFR.: RISE	SUR.: 0.002732585m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 110.81 lm/W			
MODEL	Brideglux	Imax(cd)	2314	S/MH(C0/180)	0.80
NOMINAL POWER(W)	15	LOR(%)	83.1	S/MH(C90/270)	0.79
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	1657.2	UP,DN(C0-180)	0.0,42.3
NOMINAL FLUX(lm)	1994.6	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,40.8
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	48	down(%)	83.1	CIBSE SHR MAX	0.80

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



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Operators:zoe
Test Date:2024-12-3

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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	2177	2211	2223	2177	2155	2123	2136	2155	0- 10	213.3	213.3	12.9,10.7
20	1611	1689	1771	1726	1689	1619	1594	1612	10- 20	545.0	758.4	45.8,38
30	719.5	783.6	856.5	870.1	840.4	825.3	773.4	739.8	20- 30	572.7	1331	80.3,66.7
40	136.7	143.9	155.4	166.8	162.2	153.5	142.7	134.9	30- 40	248.5	1580	95.3,79.2
50	33.67	35.72	38.67	41.54	41.69	37.90	34.86	32.78	40- 50	59.58	1639	98.9,82.2
60	3.765	4.620	5.621	6.187	6.648	5.555	4.799	4.076	50- 60	16.56	1656	99.9,83
70	0.2242	0.2364	0.2659	0.3024	0.2723	0.2311	0.2261	0.2086	60- 70	1.240	1657	100,83.1
80	0.0808	0.0708	0.0840	0.0931	0.0936	0.0731	0.0795	0.0672	70- 80	0.1559	1657	100,83.1
90	0	0	0	0	0	0	0	0	80- 90	0.0557	1657	100,83.1
100	0	0	0	0	0	0	0	0	90-100	0	1657	100,83.1
110	0	0	0	0	0	0	0	0	100-110	0	1657	100,83.1
120	0	0	0	0	0	0	0	0	110-120	0	1657	100,83.1
130	0	0	0	0	0	0	0	0	120-130	0	1657	100,83.1
140	0	0	0	0	0	0	0	0	130-140	0	1657	100,83.1
150	0	0	0	0	0	0	0	0	140-150	0	1657	100,83.1
160	0	0	0	0	0	0	0	0	150-160	0	1657	100,83.1
170	0	0	0	0	0	0	0	0	160-170	0	1657	100,83.1
180	0	0	0	0	0	0	0	0	170-180	0	1657	100,83.1
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

Test:U:47.997V I:0.3116A P:14.956W PF:1.0000 Freq:49.99Hz
Lamp Flux:1994.6x1 lm

NAME: OZ48-CA

TYPE:

WEIGHT:

SPEC.: 3000K

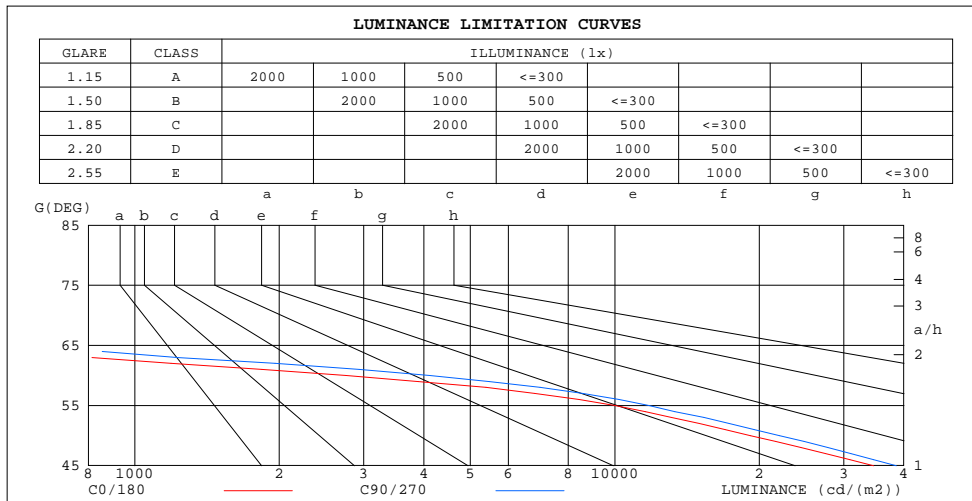
DIM.:

SERIAL No.: 2412031438

MFR.: RISE

SUR.: 0.002732585m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	253	229
80	170	177
75	185	215
70	240	285
65	380	568
60	2755	4116
55	10025	11802
50	19160	22024
45	34612	38572

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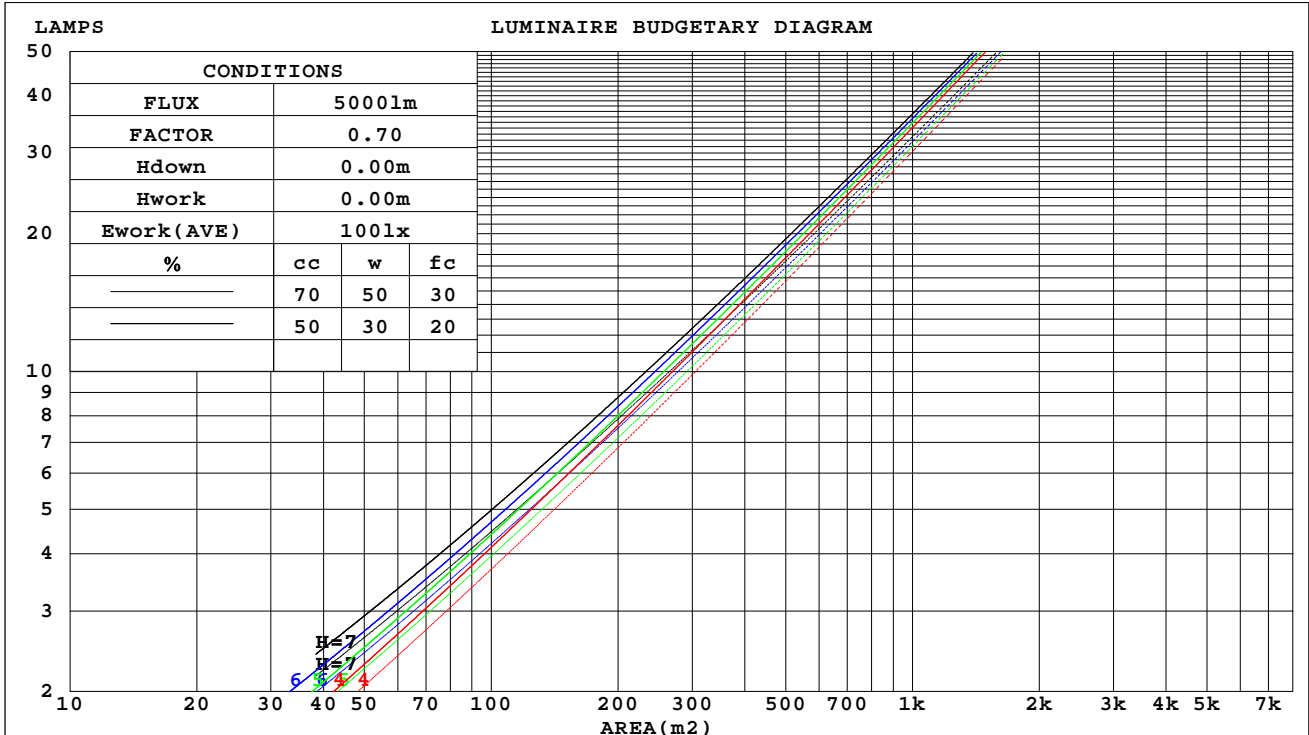
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: OZ48-CA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412031438
MFR.: RISE	SUR.: 0.002732585m2	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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NAME: OZ48-CA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412031438
MFR.: RISE	SUR.: 0.002732585m2	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	.140	.079	.025	.134	.076	.024	.124	.071	.023	.114	.066	.021	.105	.061	.020		
2.0	.133	.073	.022	.129	.071	.022	.120	.067	.021	.112	.063	.020	.104	.059	.019		
3.0	.127	.067	.020	.123	.066	.020	.115	.062	.019	.108	.059	.018	.102	.057	.017		
4.0	.121	.063	.018	.117	.061	.018	.111	.059	.018	.105	.056	.017	.099	.054	.016		
5.0	.115	.059	.017	.112	.058	.017	.107	.055	.016	.101	.053	.016	.097	.052	.016		
6.0	.110	.055	.016	.107	.054	.016	.102	.052	.015	.098	.051	.015	.094	.049	.015		
7.0	.105	.052	.015	.103	.051	.015	.099	.050	.014	.095	.048	.014	.091	.047	.014		
8.0	.101	.049	.014	.099	.049	.014	.095	.047	.014	.091	.046	.013	.088	.045	.013		
9.0	.097	.047	.013	.095	.046	.013	.091	.045	.013	.088	.044	.013	.085	.043	.012		
10.0	.093	.045	.012	.091	.044	.012	.088	.043	.012	.085	.042	.012	.083	.042	.012		

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	.158	.158	.158	.135	.135	.135	.092	.092	.092	.053	.053	.053	.017	.017	.017	
1.0	.142	.131	.121	.121	.112	.104	.083	.077	.072	.048	.045	.042	.015	.014	.014	
2.0	.129	.110	.095	.110	.095	.082	.075	.066	.057	.044	.038	.033	.014	.012	.011	
3.0	.118	.094	.076	.101	.081	.065	.069	.057	.046	.040	.033	.027	.013	.011	.009	
4.0	.109	.082	.061	.094	.071	.053	.064	.049	.038	.037	.029	.022	.012	.009	.007	
5.0	.102	.072	.051	.087	.062	.044	.060	.044	.031	.035	.026	.018	.011	.008	.006	
6.0	.095	.064	.042	.082	.056	.037	.056	.039	.026	.033	.023	.015	.011	.008	.005	
7.0	.090	.058	.036	.077	.050	.031	.053	.035	.022	.031	.021	.013	.010	.007	.004	
8.0	.085	.053	.031	.073	.046	.027	.051	.032	.019	.029	.019	.011	.010	.006	.004	
9.0	.081	.048	.027	.070	.042	.023	.048	.030	.016	.028	.017	.010	.009	.006	.003	
10.0	.077	.045	.023	.066	.039	.020	.046	.027	.014	.027	.016	.009	.009	.005	.003	

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30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:47.997V I:0.3116A P:14.956W PF:1.0000 Freq:49.99Hz Lamp Flux:1994.6x1 lm											
NAME: OZ48-CA					TYPE:			WEIGHT:			
SPEC.: 3000K					DIM.:			SERIAL No.: 2412031438			
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	2H	17.4	18.2	17.6	18.4	18.6	18.1	19.0	18.4	19.2	19.3
	3H	17.2	18.0	17.4	18.2	18.4	18.0	18.8	18.2	19.0	19.2
	4H	17.1	17.9	17.4	18.1	18.3	17.9	18.6	18.2	18.9	19.1
	6H	17.0	17.7	17.3	18.0	18.2	17.8	18.5	18.1	18.8	19.0
	8H	17.0	17.7	17.3	17.9	18.2	17.7	18.4	18.1	18.7	19.0
	12H	16.9	17.6	17.2	17.9	18.1	17.7	18.4	18.0	18.6	18.9
4H	2H	17.1	17.9	17.4	18.1	18.3	17.9	18.7	18.2	18.9	19.1
	3H	16.9	17.6	17.3	17.9	18.1	17.7	18.4	18.0	18.6	18.9
	4H	16.8	17.4	17.2	17.7	18.0	17.6	18.2	18.0	18.5	18.8
	6H	16.7	17.3	17.1	17.6	17.9	17.5	18.0	17.9	18.4	18.7
	8H	16.7	17.2	17.1	17.5	17.9	17.5	18.0	17.9	18.3	18.7
	12H	16.6	17.1	17.0	17.5	17.8	17.4	17.9	17.8	18.2	18.6
8H	4H	16.7	17.2	17.1	17.5	17.9	17.5	18.0	17.9	18.3	18.7
	6H	16.6	17.0	17.0	17.4	17.8	17.4	17.8	17.8	18.2	18.6
	8H	16.5	16.9	17.0	17.3	17.7	17.3	17.7	17.8	18.1	18.5
	12H	16.5	16.8	16.9	17.2	17.7	17.2	17.6	17.7	18.0	18.5
12H	4H	16.6	17.1	17.0	17.5	17.8	17.4	17.9	17.8	18.2	18.6
	6H	16.5	16.9	17.0	17.3	17.7	17.3	17.7	17.8	18.1	18.5
	8H	16.5	16.8	16.9	17.2	17.7	17.2	17.6	17.7	18.0	18.5
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 3.4 / -11.4					+ 3.9 / -10.7					
1.5H	+ 5.2 / - 7.0					+ 5.8 / - 7.4					
2.0H	+ 5.6 / -18.9					+ 5.8 / -18.4					

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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MFR.: RISE	SUR.: 0.002732585m2	Shielding Angle:

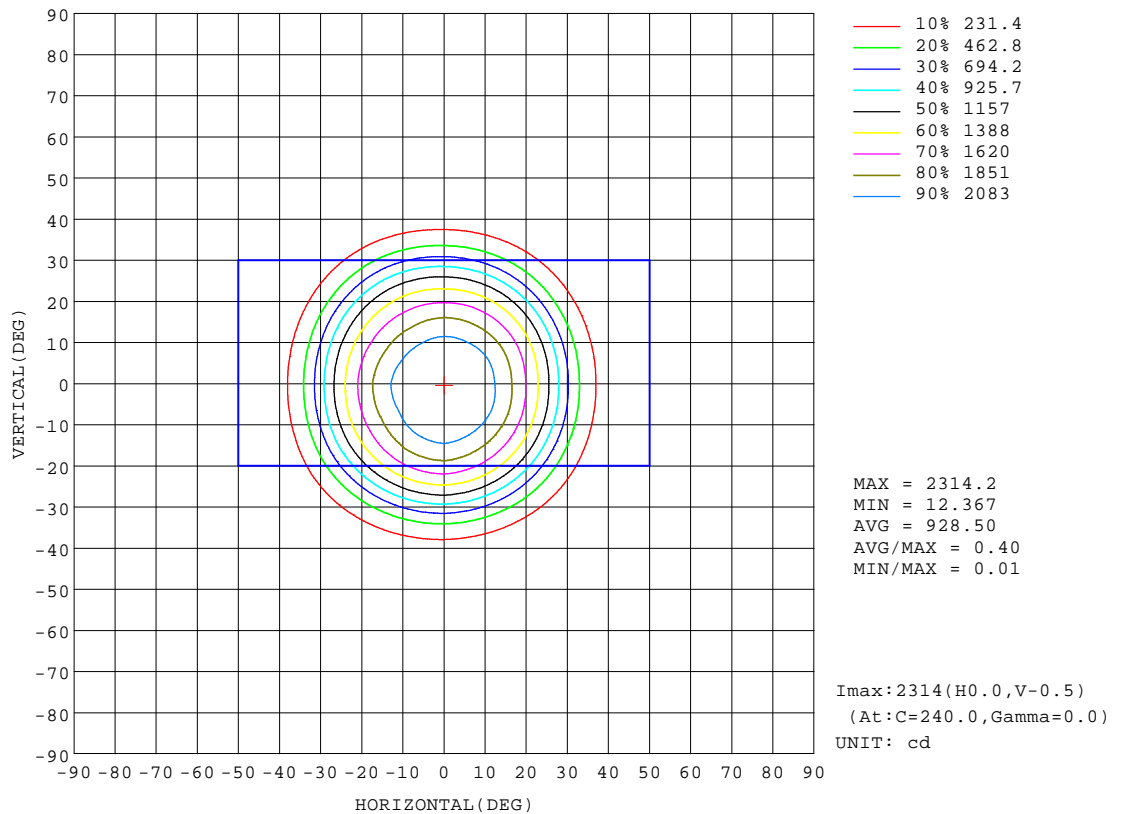
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	74	68	65	73	68	65	73	68	65	62
0.80	80	75	72	79	75	72	78	74	72	69
1.00	83	79	76	83	78	76	81	78	75	72
1.25	86	82	80	86	82	79	84	81	79	75
1.50	89	85	82	88	84	82	86	83	81	77
2.00	91	87	85	90	87	84	87	85	83	79
2.50	92	89	87	91	88	86	88	86	84	79
3.00	93	91	88	92	89	87	89	87	86	80
4.00	95	93	91	93	91	90	90	89	87	82
5.00	96	94	93	94	93	91	91	90	89	82
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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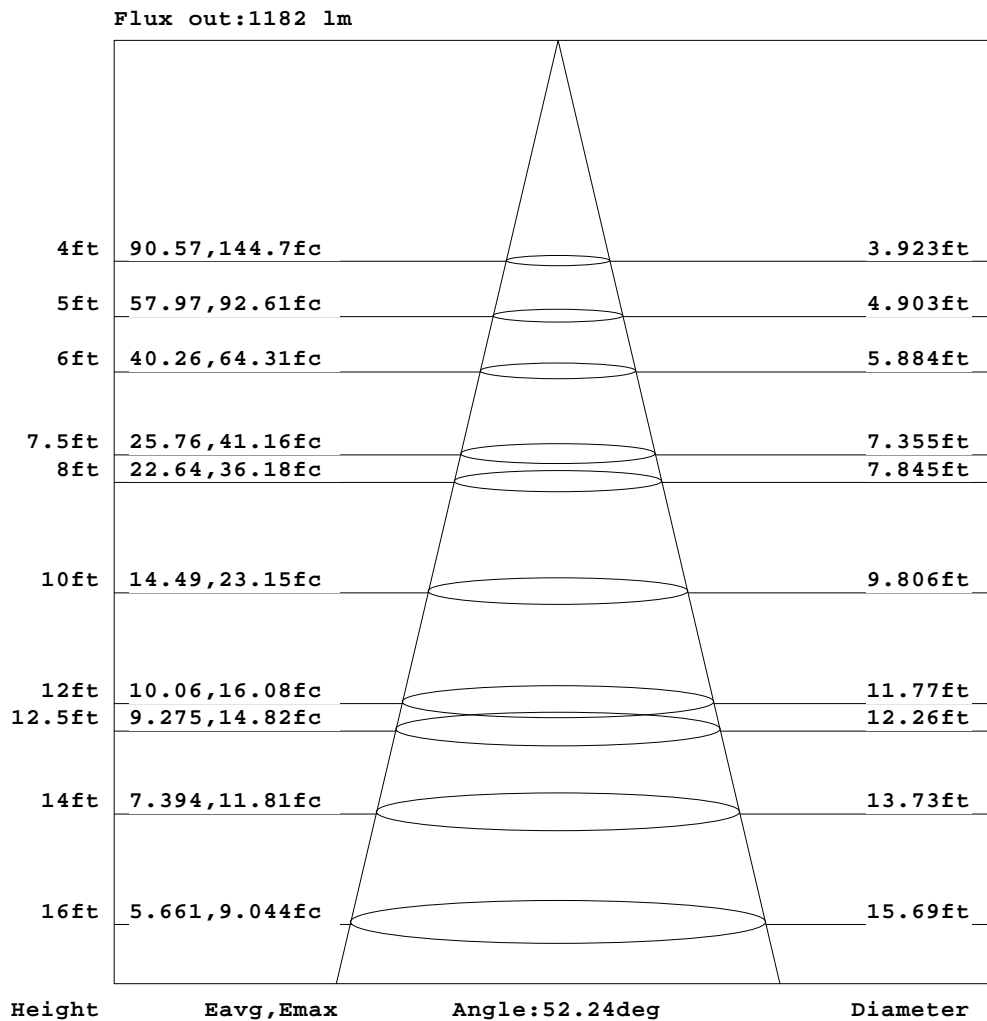


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AAI Figure

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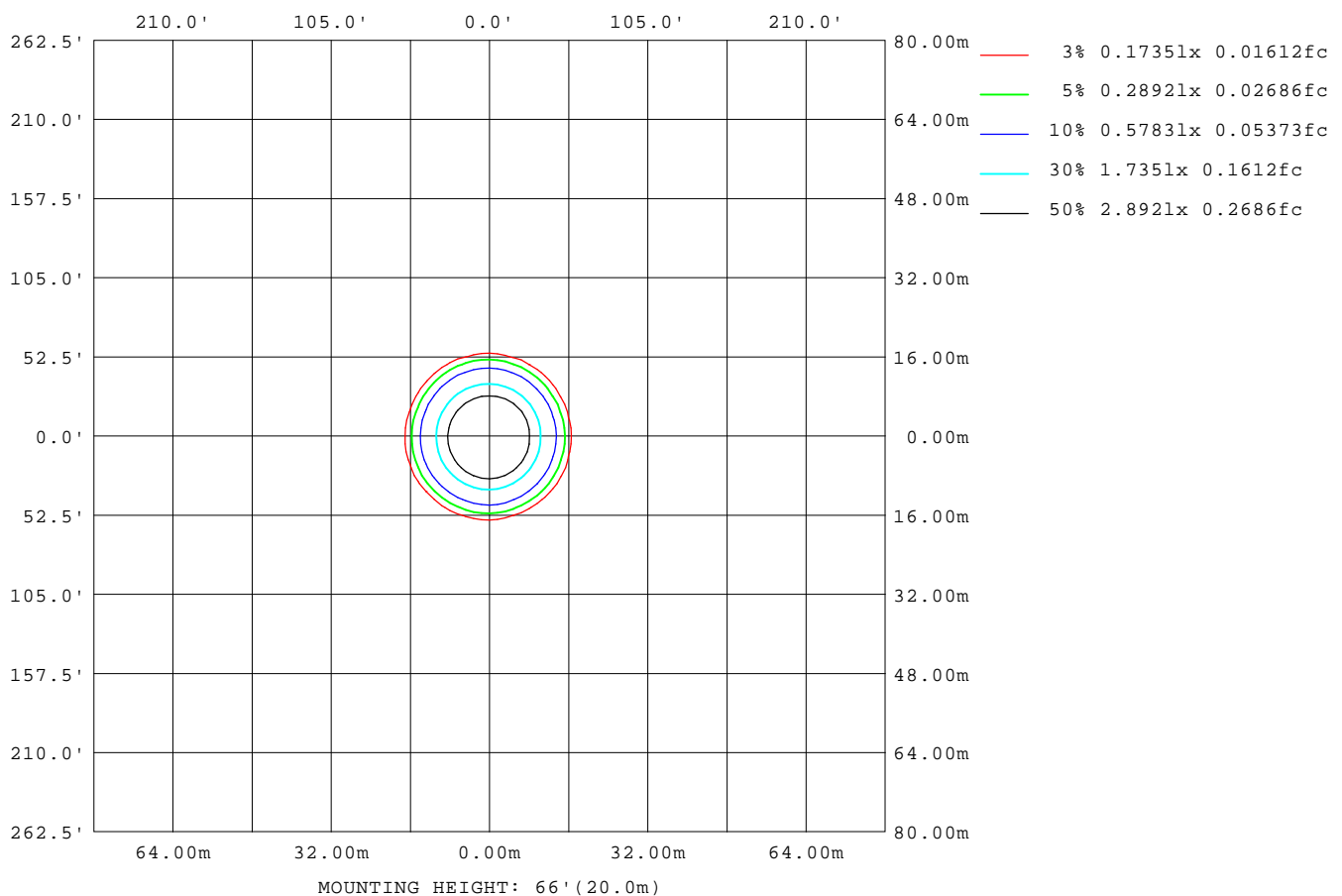
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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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-1109C 50R
NOT DRIVER: 48V
30minutes warm-up

LED Avg.L Report

Test:U:47.997V I:0.3116A P:14.956W PF:1.0000 Freq:49.99Hz Lamp Flux:1994.6x1 lm		
NAME: OZ48-CA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412031438
MFR.: RISE	SUR.: 0.002732585m2	Shielding Angle:

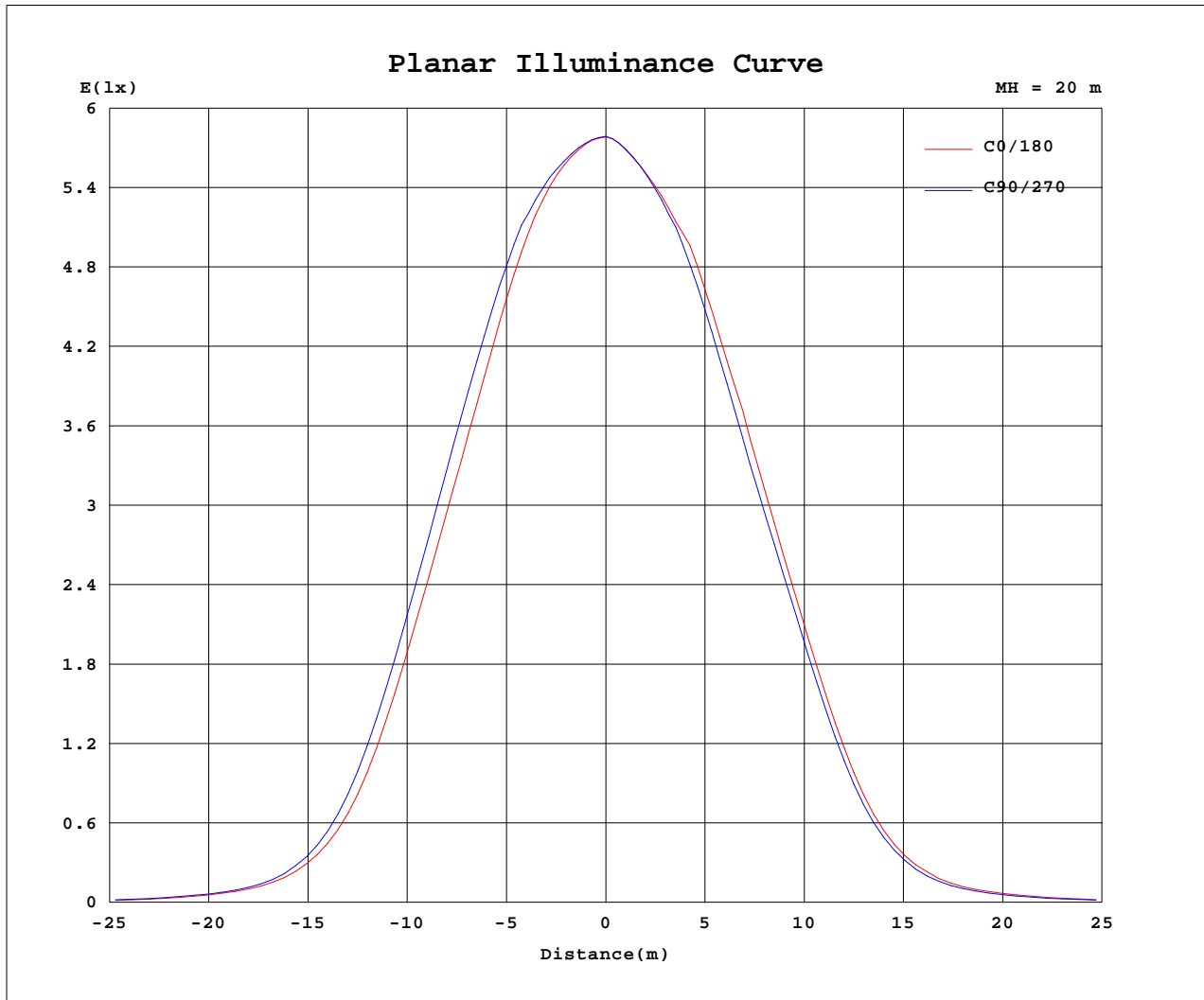
AvgL	cd/m2
L_0~180(65)av	579
L_0~180(75)av	207
L_0~180(85)av	253
L_90~270(65)av	488
L_90~270(75)av	201
L_90~270(85)av	228
L_45(65)av	506
L_45(75)av	196
L_45(85)av	193

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

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-30G10TH-A-83 Ra:90
LENS:PM-1109C 50R
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

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-30G10TH-A-83 Ra: 90
 LENS: PM-1109C 50R
 NOT DRIVER: 48V
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:47.997V I:0.3116A P:14.956W PF:1.0000 Freq:49.99Hz Lamp Flux:1994.6x1 lm		
NAME: OZ48-CA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412031438
MFR.: RISE	SUR.: 0.002732585m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2314	2314	2314	2314	2314	2314	2314	2314	2314	2314	2314	2314						
5	2280	2292	2294	2287	2274	2257	2252	2243	2242	2250	2257	2275						
10	2177	2206	2216	2223	2200	2155	2155	2125	2121	2136	2139	2171						
15	1944	1993	2023	2064	2035	1979	1982	1915	1891	1910	1911	1940						
20	1611	1665	1713	1771	1748	1704	1689	1633	1606	1594	1604	1621						
25	1205	1255	1310	1362	1358	1341	1308	1283	1265	1233	1231	1223						
30	719	760	807	856	865	876	840	832	819	773	754	726						
35	327	345	367	394	405	421	398	391	386	359	344	325						
40	137	142	146	155	164	169	162	155	152	143	137	132						
45	66.9	69.2	70.3	74.5	78.4	80.2	78.1	74.0	70.7	67.8	65.0	64.2						
50	33.7	35.3	36.1	38.7	40.9	42.2	41.7	39.1	36.7	34.9	33.0	32.5						
55	15.7	16.7	17.3	18.5	19.3	20.4	20.2	18.9	17.6	17.0	16.0	15.5						
60	3.77	4.38	4.86	5.62	5.92	6.46	6.65	6.09	5.02	4.80	4.26	3.89						
65	0.44	0.45	0.54	0.66	0.81	0.82	0.90	0.70	0.56	0.47	0.41	0.40						
70	0.22	0.23	0.25	0.27	0.29	0.31	0.27	0.24	0.22	0.23	0.21	0.21						
75	0.13	0.12	0.14	0.15	0.16	0.18	0.16	0.14	0.13	0.13	0.12	0.12						
80	0.08	0.07	0.07	0.08	0.09	0.10	0.09	0.08	0.07	0.08	0.07	0.07						
85	0.06	0.04	0.05	0.05	0.05	0.06	0.06	0.04	0.04	0.05	0.04	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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