

Luminaire Photograph



Light Output Ratio:	79.4%	
Luminaire Power:	14.97 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.30	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-1109 15R
NOT DRIVER: 48V
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

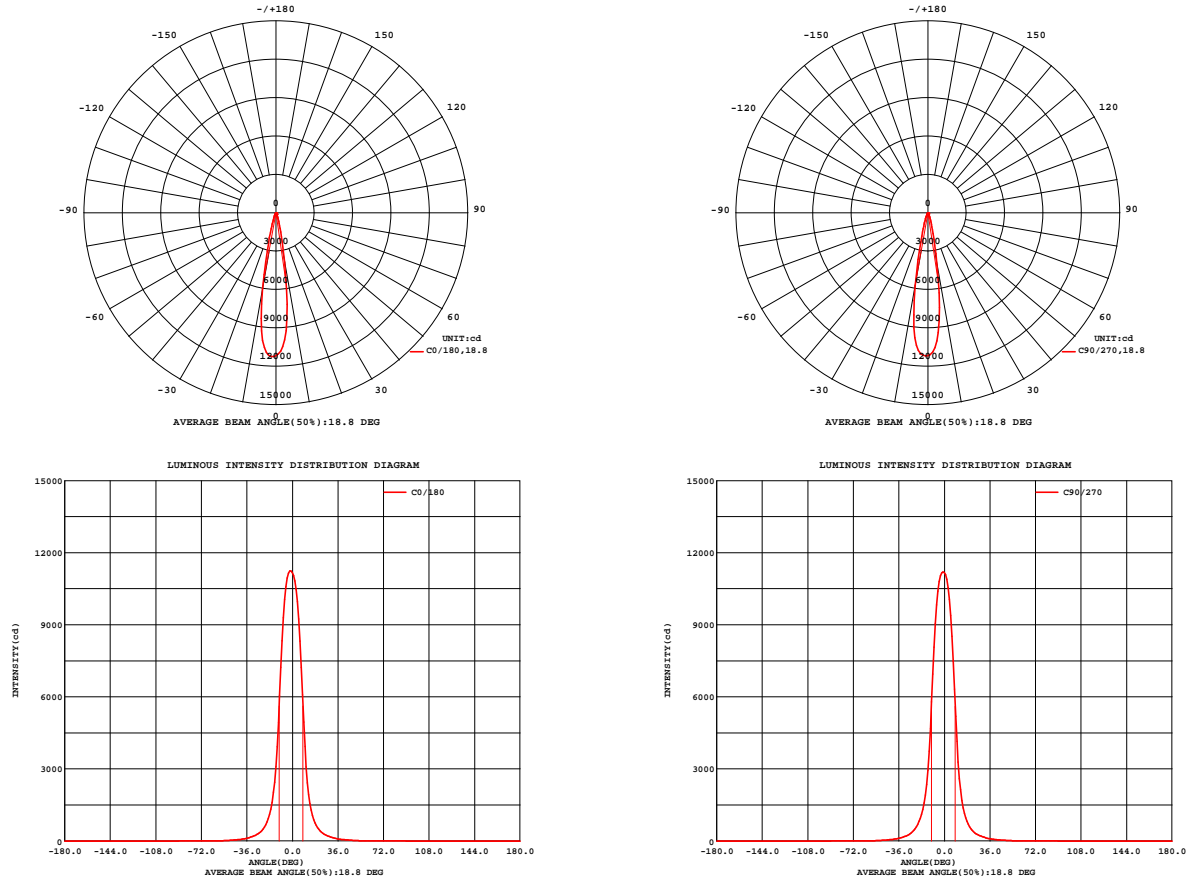


Fig. C0/C180

Fig. C90/C270

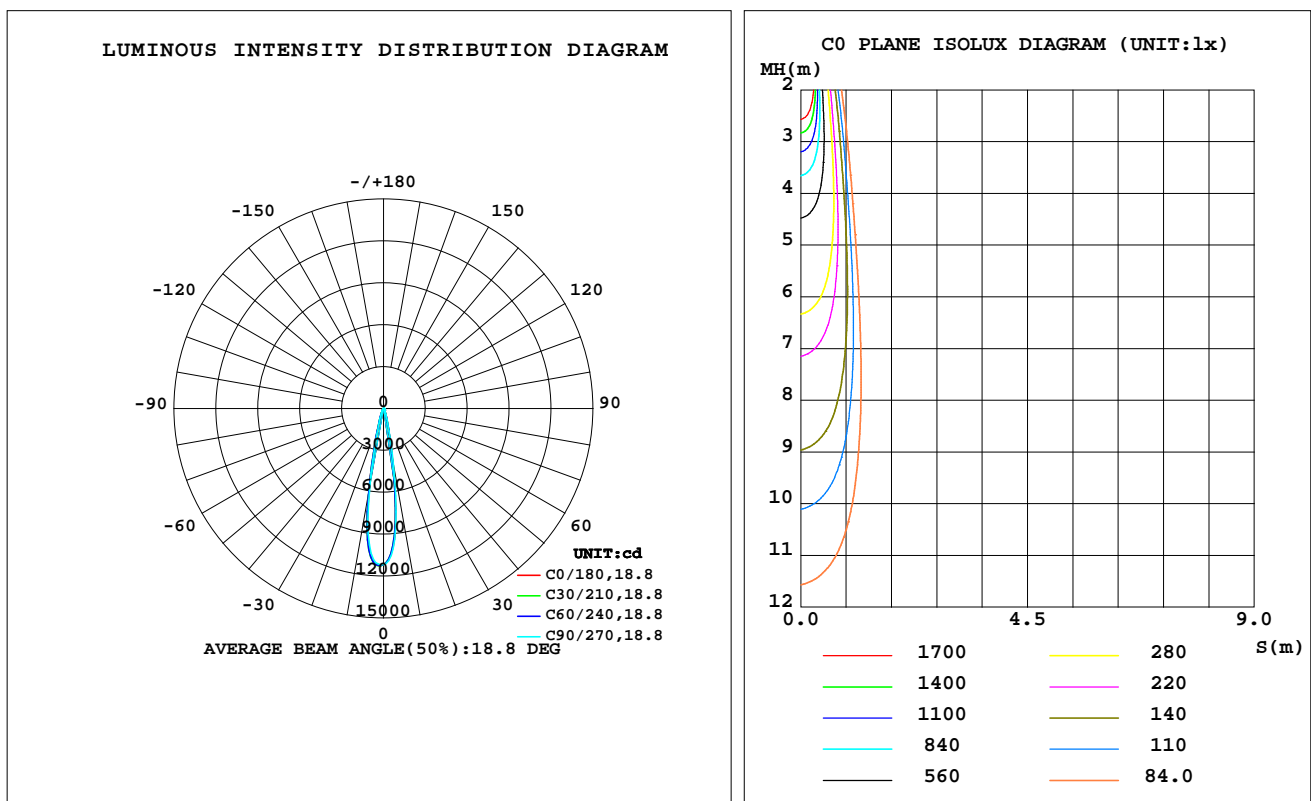
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:47.997V I:0.3119A P:14.970W PF:1.0000 Freq:49.99Hz Lamp Flux:1994.6x1 lm		
NAME: OZ48-CA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412031435
MFR.: RISE	SUR.: 0.002732585m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 105.74 lm/W			
MODEL	Brideglux	Imax(cd)	11260	S/MH(C0/180)	0.33
NOMINAL POWER(W)	15	LOR(%)	79.4	S/MH(C90/270)	0.33
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	1582.9	UP,DN(C0-180)	0.0,35.9
NOMINAL FLUX(lm)	1994.6	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,43.5
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	48	down(%)	79.4	CIBSE SHR MAX	0.30



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ZONAL FLUX DIAGRAM

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	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	393.2	378.2	414.8	505.0	605.0	630.3	578.9	478.0	0- 10	779.9	779.9	49.3,39.1
20	55.64	54.93	59.66	69.12	79.44	83.46	81.34	67.63	10- 20	518.3	1298	82,65.1
30	17.17	16.89	18.12	19.84	21.57	22.51	21.28	19.06	20- 30	166.8	1465	92.5,73.4
40	5.929	5.772	6.269	6.801	7.275	7.639	7.229	6.537	30- 40	73.62	1539	97.2,77.1
50	1.873	1.841	2.087	2.395	2.647	2.775	2.482	2.115	40- 50	32.30	1571	99.2,78.8
60	0.3177	0.3073	0.3879	0.4767	0.5123	0.5947	0.4991	0.3914	50- 60	10.41	1581	99.9,79.3
70	0.0236	0.0205	0.0222	0.0240	0.0266	0.0286	0.0273	0.0264	60- 70	1.383	1583	100,79.3
80	0.0108	0.0075	0.0093	0.0090	0.0110	0.0096	0.0105	0.0099	70- 80	0.1608	1583	100,79.4
90	0	0	0	0	0	0	0	0	80- 90	0.0740	1583	100,79.4
100	0	0	0	0	0	0	0	0	90-100	0	1583	100,79.4
110	0	0	0	0	0	0	0	0	100-110	0	1583	100,79.4
120	0	0	0	0	0	0	0	0	110-120	0	1583	100,79.4
130	0	0	0	0	0	0	0	0	120-130	0	1583	100,79.4
140	0	0	0	0	0	0	0	0	130-140	0	1583	100,79.4
150	0	0	0	0	0	0	0	0	140-150	0	1583	100,79.4
160	0	0	0	0	0	0	0	0	150-160	0	1583	100,79.4
170	0	0	0	0	0	0	0	0	160-170	0	1583	100,79.4
180	0	0	0	0	0	0	0	0	170-180	0	1583	100,79.4
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

Test:U:47.997V I:0.3119A P:14.970W PF:1.0000 Freq:49.99Hz
Lamp Flux:1994.6x1 lm

NAME: OZ48-CA

TYPE:

WEIGHT:

SPEC.: 3000K

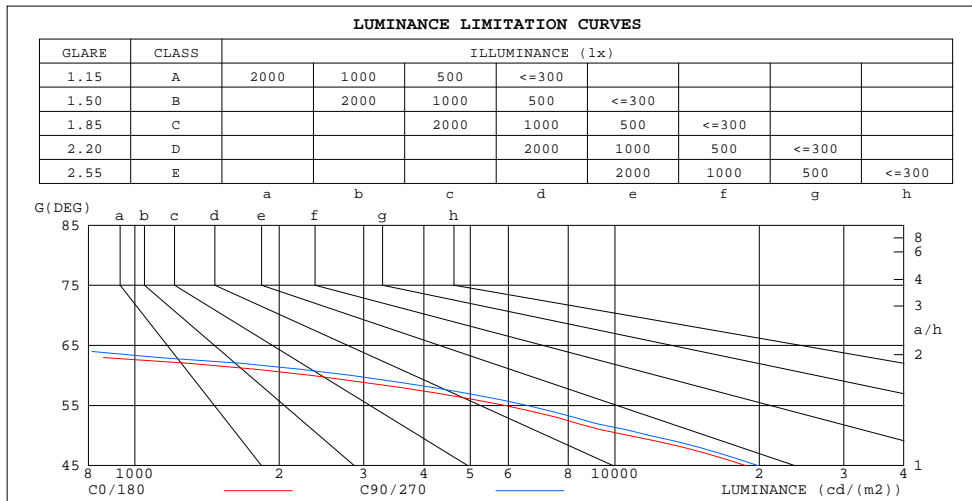
DIM.:

SERIAL No.: 2412031435

MFR.: RISE

SUR.: 0.002732585m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	377	324
80	229	197
75	211	191
70	254	237
65	439	432
60	2340	2834
55	5932	6589
50	10733	11861
45	18793	19901

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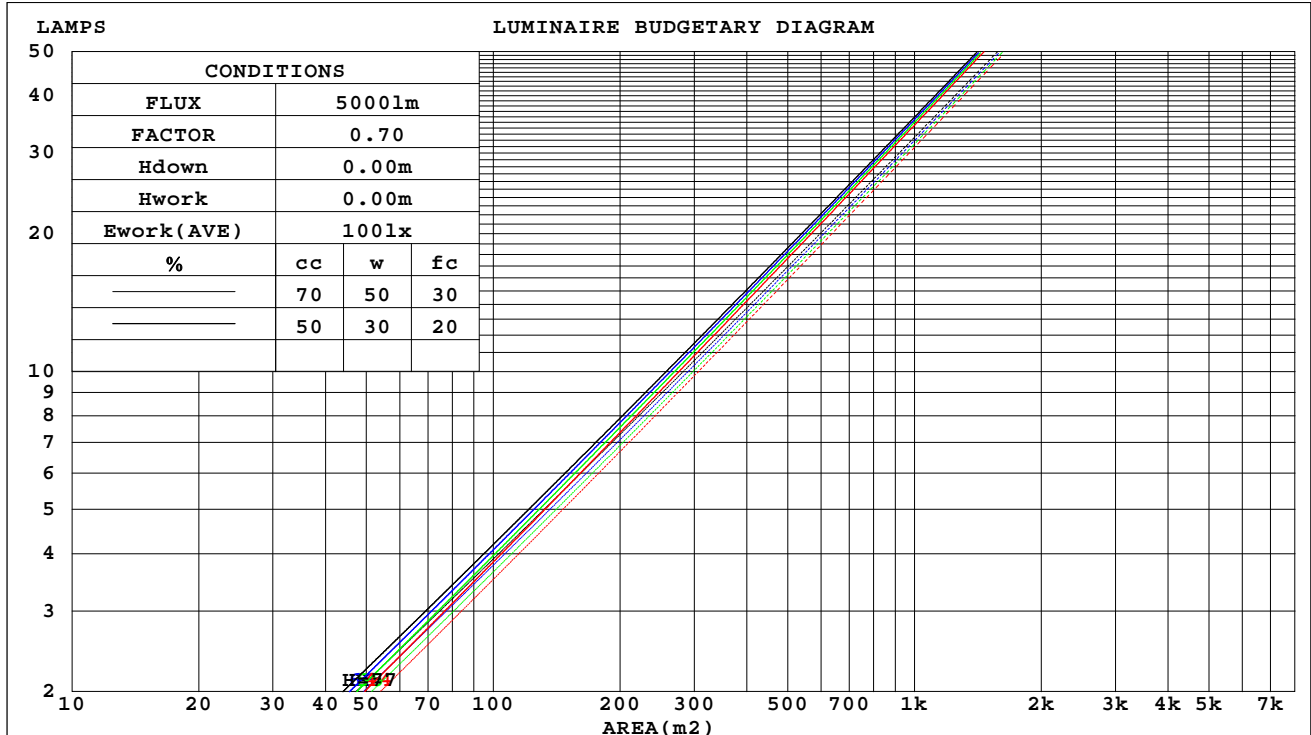
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2412031435
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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SPEC.: 3000K	DIM.:	SERIAL No.: 2412031435
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	.103	.059	.019	.098	.056	.018	.088	.051	.016	.079	.046	.015	.071	.041	.013	
2.0	.095	.052	.016	.091	.050	.015	.083	.046	.014	.076	.042	.013	.069	.039	.012	
3.0	.089	.047	.014	.085	.045	.014	.078	.042	.013	.072	.039	.012	.066	.037	.011	
4.0	.083	.043	.013	.080	.042	.012	.074	.039	.012	.069	.037	.011	.064	.035	.011	
5.0	.077	.039	.011	.075	.038	.011	.070	.037	.011	.066	.035	.010	.062	.033	.010	
6.0	.073	.037	.010	.071	.036	.010	.067	.034	.010	.063	.033	.010	.059	.031	.009	
7.0	.069	.034	.010	.067	.033	.010	.064	.032	.009	.060	.031	.009	.057	.030	.009	
8.0	.065	.032	.009	.064	.031	.009	.061	.030	.009	.058	.029	.008	.055	.028	.008	
9.0	.062	.030	.008	.061	.030	.008	.058	.029	.008	.056	.028	.008	.053	.027	.008	
10.0	.059	.028	.008	.058	.028	.008	.056	.027	.008	.053	.027	.008	.051	.026	.007	

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	.151	.151	.151	.129	.129	.129	.088	.088	.088	.051	.051	.051	.016	.016	.016	
1.0	.133	.125	.118	.114	.107	.101	.078	.074	.070	.045	.043	.041	.014	.014	.013	
2.0	.119	.105	.094	.102	.091	.081	.070	.063	.057	.040	.036	.033	.013	.012	.011	
3.0	.106	.090	.077	.091	.078	.067	.063	.054	.047	.036	.031	.028	.012	.010	.009	
4.0	.096	.078	.063	.082	.067	.055	.057	.047	.039	.033	.027	.023	.011	.009	.008	
5.0	.087	.068	.053	.075	.059	.046	.052	.041	.033	.030	.024	.019	.010	.008	.006	
6.0	.080	.060	.045	.069	.052	.039	.048	.036	.028	.028	.021	.016	.009	.007	.005	
7.0	.074	.053	.038	.064	.046	.034	.044	.032	.024	.026	.019	.014	.008	.006	.005	
8.0	.069	.048	.033	.059	.041	.029	.041	.029	.021	.024	.017	.012	.008	.006	.004	
9.0	.064	.043	.029	.055	.037	.025	.038	.026	.018	.022	.016	.011	.007	.005	.004	
10.0	.060	.039	.025	.052	.034	.022	.036	.024	.016	.021	.014	.009	.007	.005	.003	

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30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:47.997V I:0.3119A P:14.970W PF:1.0000 Freq:49.99Hz Lamp Flux:1994.6x1 lm										
NAME: OZ48-CA					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2412031435		
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	10.0	10.6	10.2	10.7	10.9	10.2	10.8	10.4	11.0	11.1
3H	9.9	10.4	10.1	10.6	10.8	10.1	10.6	10.3	10.8	11.0
4H	9.8	10.3	10.0	10.5	10.7	10.0	10.5	10.2	10.7	10.9
6H	9.7	10.2	10.0	10.4	10.7	9.9	10.4	10.2	10.7	10.9
8H	9.6	10.1	9.9	10.4	10.6	9.9	10.4	10.2	10.6	10.9
12H	9.6	10.1	9.9	10.3	10.6	9.8	10.3	10.1	10.6	10.8
4H 2H	9.8	10.3	10.1	10.5	10.8	10.0	10.6	10.3	10.8	11.0
3H	9.6	10.1	9.9	10.4	10.6	9.9	10.3	10.2	10.6	10.9
4H	9.5	10.0	9.9	10.3	10.6	9.8	10.2	10.1	10.5	10.8
6H	9.4	9.8	9.8	10.2	10.5	9.7	10.0	10.0	10.4	10.7
8H	9.4	9.7	9.8	10.1	10.5	9.6	10.0	10.0	10.3	10.7
12H	9.3	9.7	9.7	10.0	10.4	9.5	9.9	9.9	10.2	10.6
8H 4H	9.4	9.7	9.8	10.1	10.4	9.6	10.0	10.0	10.3	10.7
6H	9.3	9.6	9.7	10.0	10.4	9.5	9.8	9.9	10.2	10.6
8H	9.2	9.5	9.6	9.9	10.3	9.4	9.7	9.9	10.1	10.5
12H	9.1	9.4	9.6	9.8	10.3	9.4	9.6	9.8	10.0	10.5
12H 4H	9.3	9.7	9.7	10.0	10.4	9.5	9.9	9.9	10.2	10.6
6H	9.2	9.5	9.6	9.9	10.3	9.4	9.7	9.9	10.1	10.5
8H	9.1	9.4	9.6	9.8	10.3	9.4	9.6	9.8	10.0	10.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.6 / - 8.1					+ 2.8 / - 7.9				
1.5H	+ 3.7 / - 5.8					+ 3.8 / - 5.9				
2.0H	+ 5.6 / -14.1					+ 5.7 / -15.1				

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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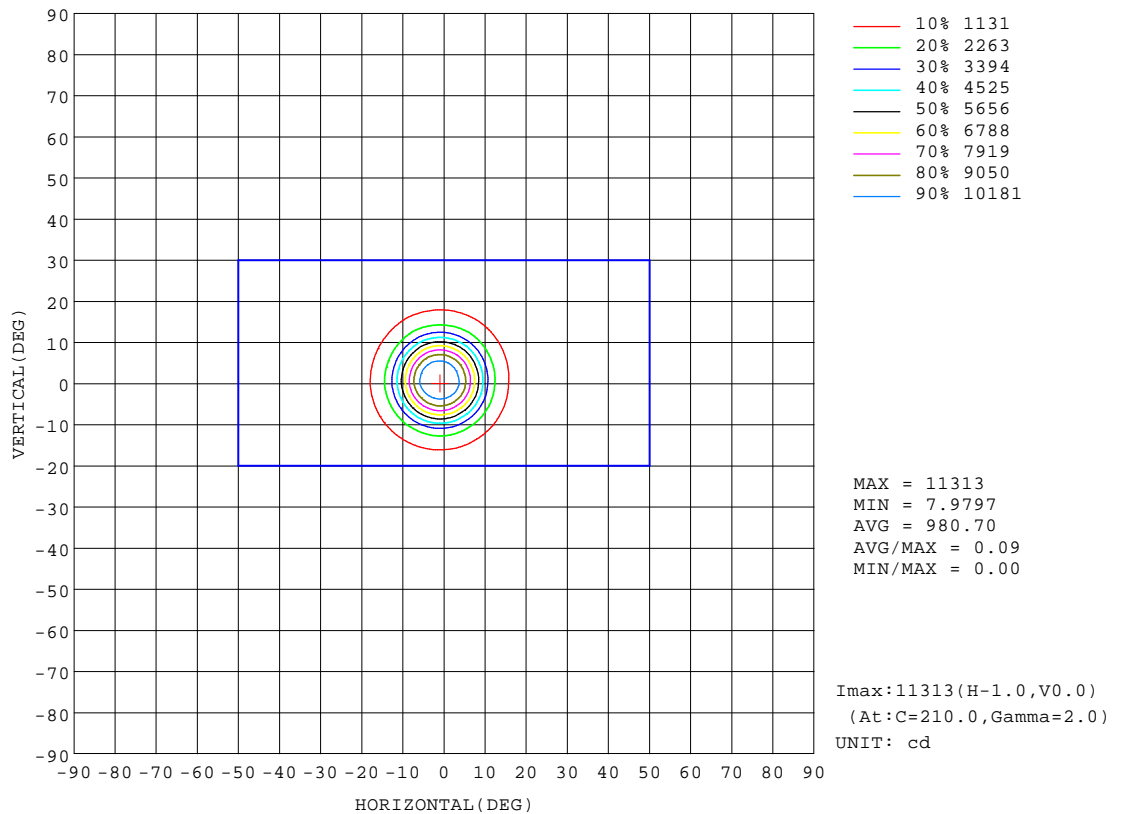
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	71	67	64	71	66	64	70	66	64	61
0.80	77	73	70	76	72	70	75	72	69	67
1.00	80	76	73	79	76	73	78	75	73	70
1.25	83	79	77	82	79	76	81	78	76	73
1.50	85	82	79	84	81	79	82	80	78	75
2.00	87	84	81	86	83	81	84	81	80	76
2.50	88	85	83	87	84	82	84	82	81	76
3.00	89	87	85	88	86	84	85	83	82	77
4.00	91	89	87	89	87	86	86	85	84	78
5.00	92	90	89	90	89	87	87	86	85	79
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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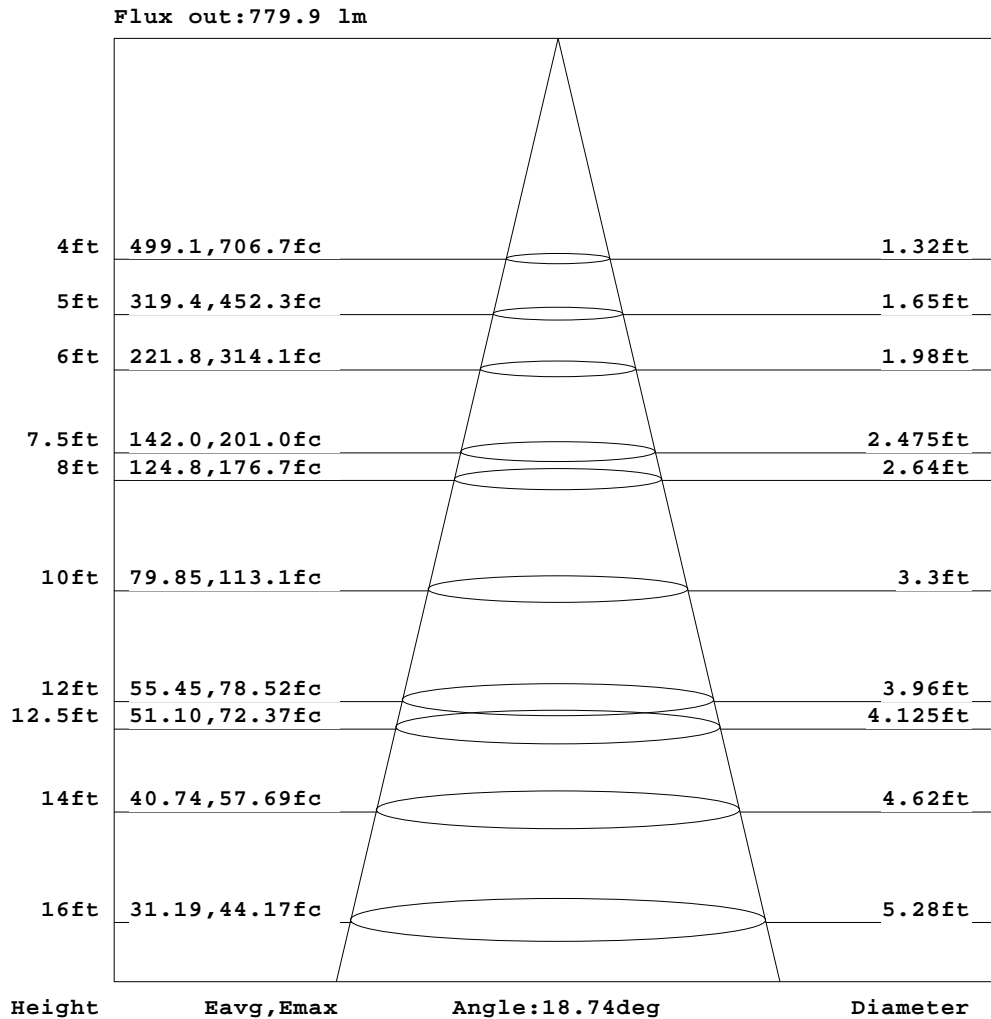


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AAI Figure

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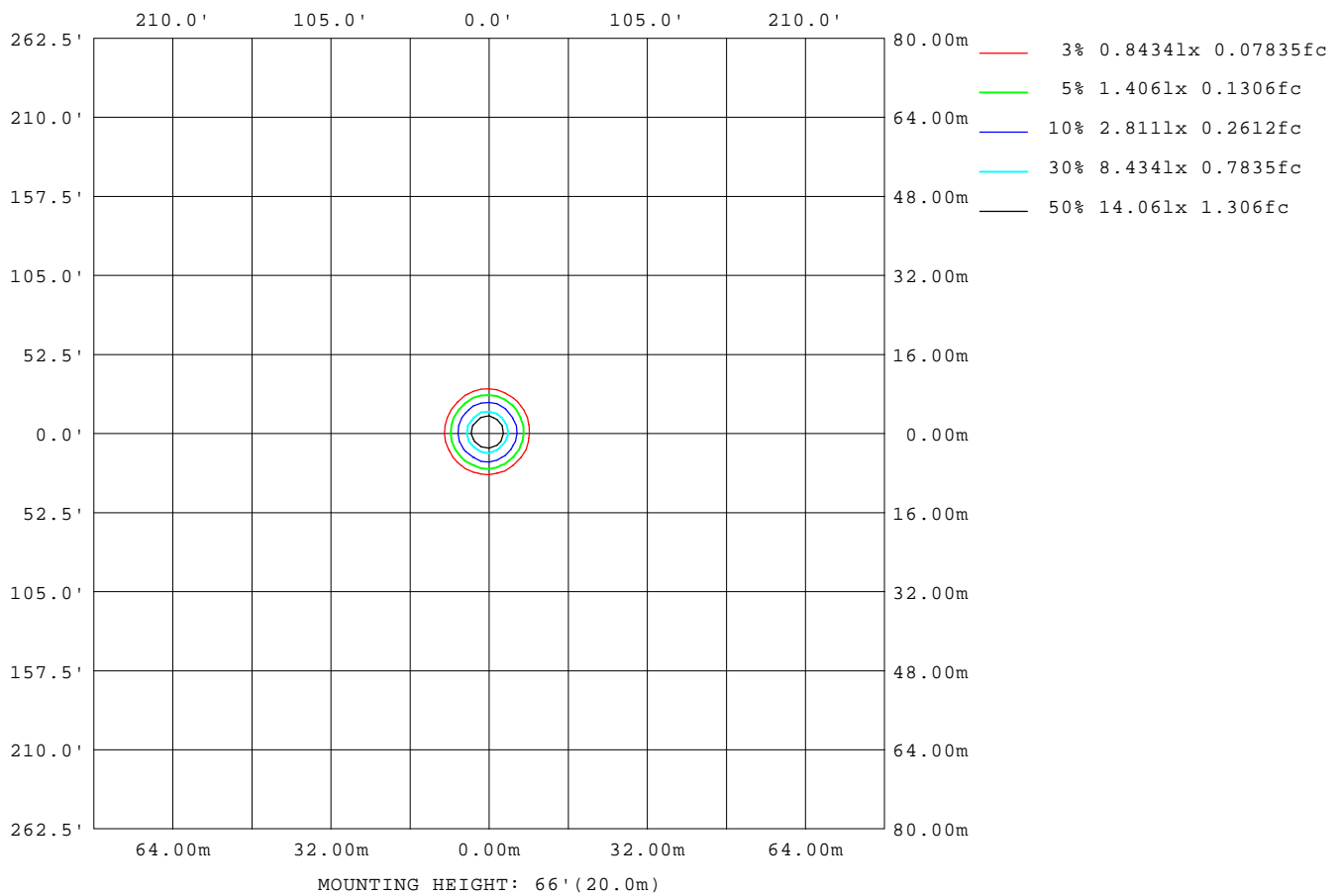
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

Test:U:47.997V I:0.3119A P:14.970W PF:1.0000 Freq:49.99Hz Lamp Flux:1994.6x1 lm		
NAME: OZ48-CA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412031435
MFR.: RISE	SUR.: 0.002732585m2	Shielding Angle:

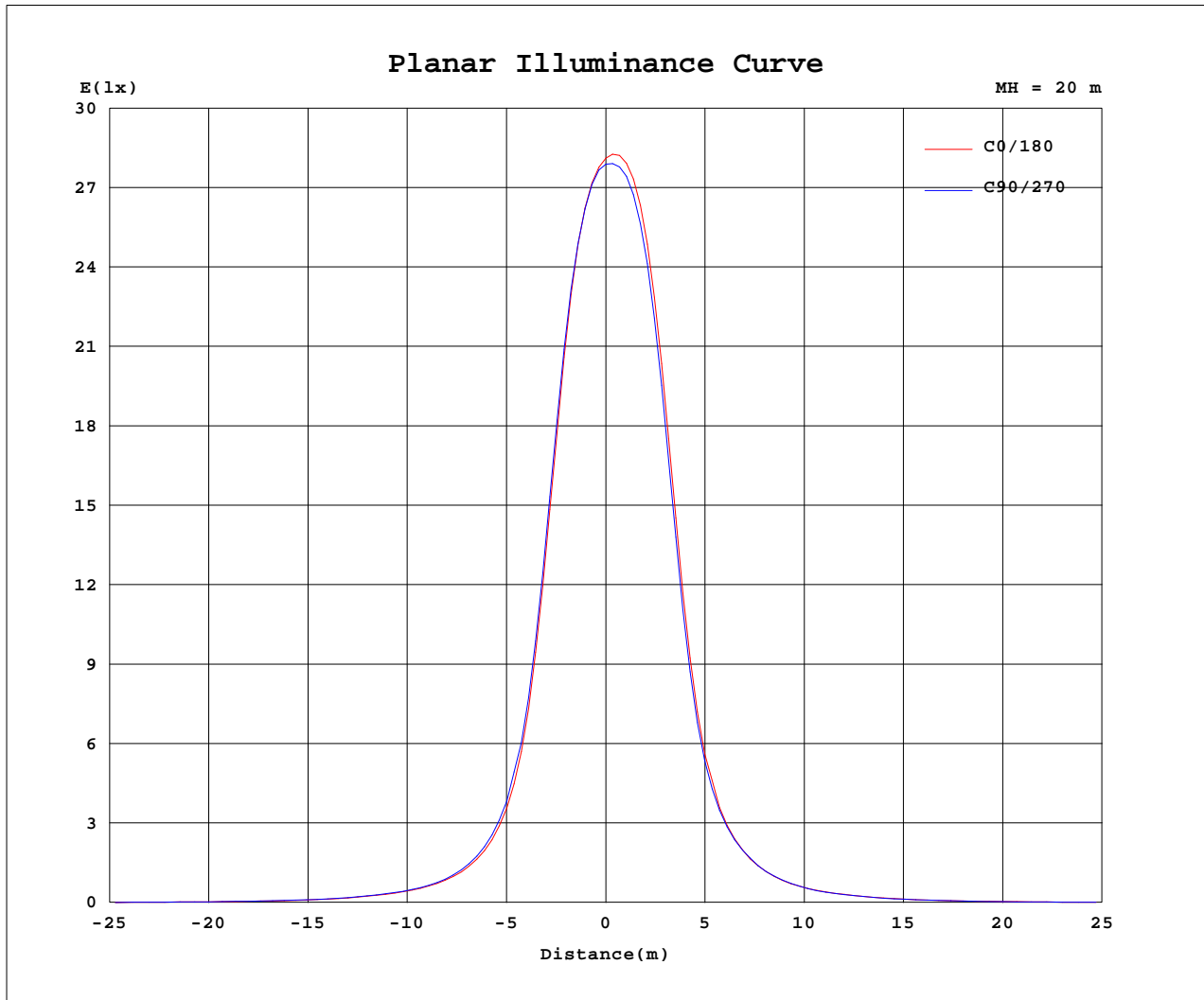
AvgL	cd/m2
L_0~180(65)av	744
L_0~180(75)av	214
L_0~180(85)av	376
L_90~270(65)av	720
L_90~270(75)av	210
L_90~270(85)av	329
L_45(65)av	747
L_45(75)av	199
L_45(85)av	252

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-1109 15R
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-1109 15R
 NOT DRIVER: 48V
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:47.997V I:0.3119A P:14.970W PF:1.0000 Freq:49.99Hz Lamp Flux:1994.6x1 lm		
NAME: OZ48-CA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412031435
MFR.: RISE	SUR.: 0.002732585m2	Shielding Angle:

Table--1

UNIT: X10cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1117	1117	1117	1117	1117	1117	1117	1117	1117	1117	1117	1117						
5	924	908	911	939	977	1023	1059	1069	1065	1039	1005	960						
10	393	376	380	415	469	541	605	632	629	579	513	443						
15	128	124	127	138	153	181	203	204	213	191	170	146						
20	55.6	54.6	55.2	59.7	65.1	73.1	79.4	82.4	84.6	81.3	72.5	62.8						
25	29.3	28.5	28.6	30.6	32.7	35.8	38.4	39.8	41.1	39.1	35.4	31.6						
30	17.2	16.8	17.0	18.1	19.1	20.6	21.6	22.3	22.7	21.3	20.0	18.1						
35	9.81	9.56	9.71	10.4	11.1	11.9	12.7	13.2	13.4	12.5	11.5	10.5						
40	5.93	5.74	5.81	6.27	6.63	6.97	7.28	7.59	7.69	7.23	6.80	6.28						
45	3.61	3.49	3.53	3.85	4.12	4.35	4.53	4.74	4.77	4.43	4.12	3.81						
50	1.87	1.83	1.85	2.09	2.29	2.50	2.65	2.77	2.78	2.48	2.24	1.99						
55	0.92	0.85	0.88	1.03	1.15	1.20	1.25	1.34	1.34	1.20	1.07	0.99						
60	0.32	0.31	0.31	0.39	0.46	0.50	0.51	0.60	0.59	0.50	0.43	0.36						
65	0.05	0.04	0.05	0.05	0.08	0.10	0.12	0.13	0.14	0.12	0.09	0.06						
70	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03						
75	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.02	0.02	0.02						
80	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						
85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						
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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