

Luminaire Photograph



Light Output Ratio:	85.6%	
Luminaire Power:	11.75 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: 2024-12-21

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: BXRH-30H1000-B-83 Ra: 95
LENS: PM-1082A 24R
NOT DRIVER: 48V
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

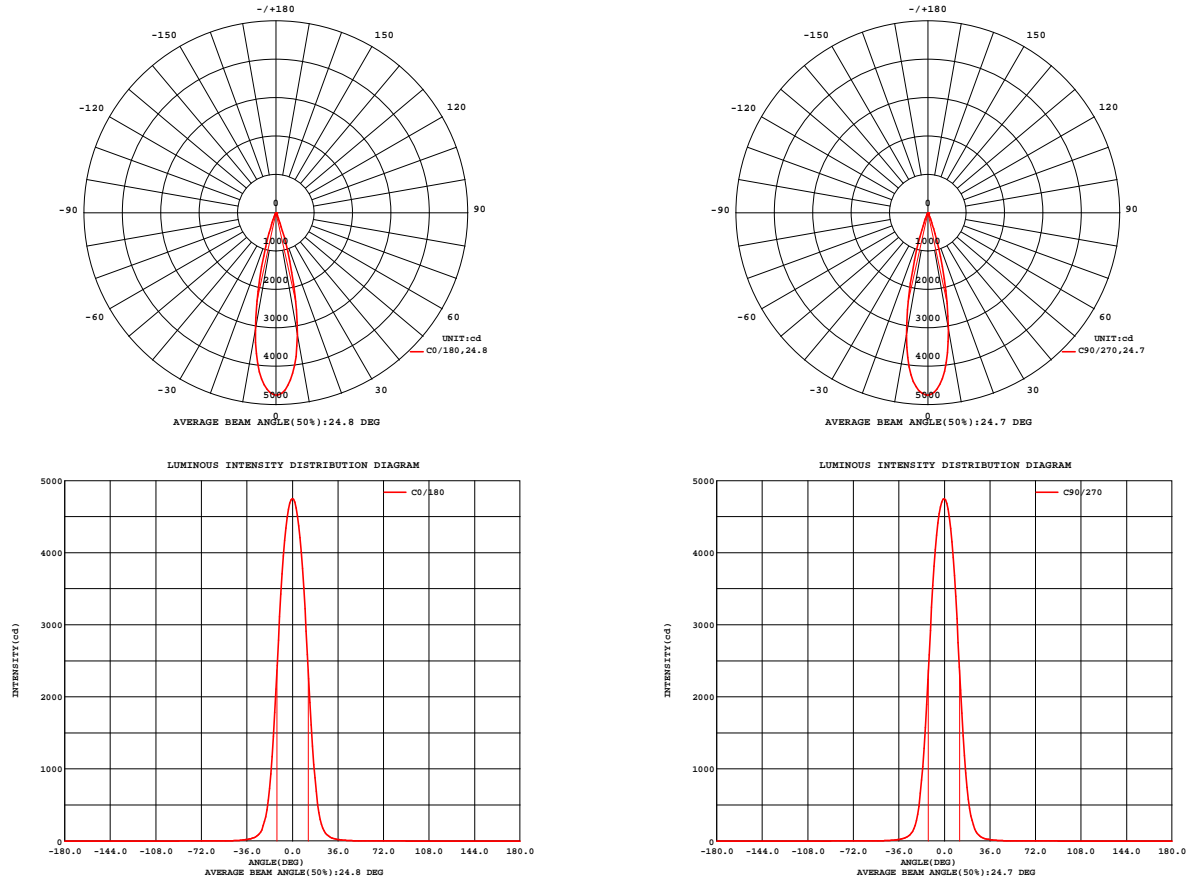


Fig. C0/C180

Fig. C90/C270

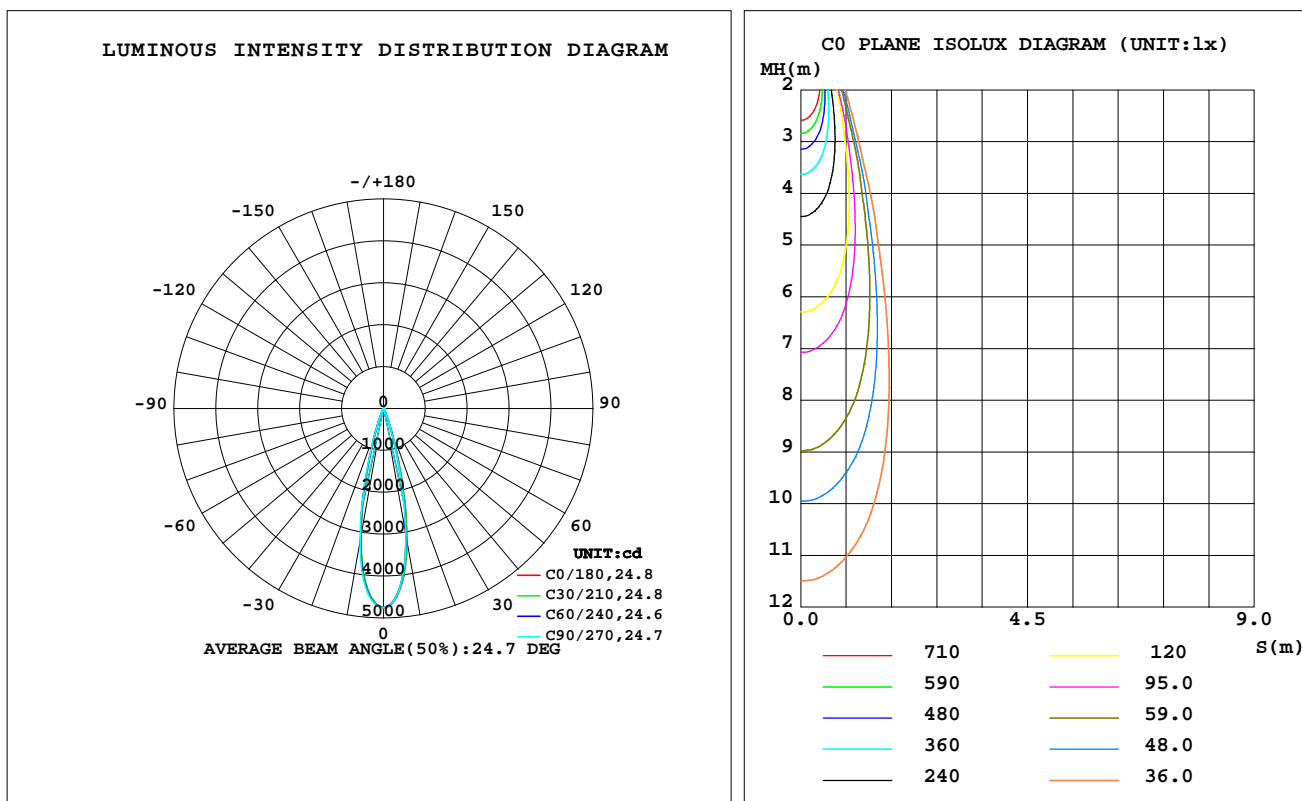
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:47.997V I:0.2449A P:11.755W PF:1.0000 Freq:49.99Hz Lamp Flux:1050.8x1 lm		
NAME: OZ48-SB-50	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412211494
MFR.: RISE	SUR.: 0.001884785m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 76.50 lm/W			
MODEL	Brideglux	I _{max} (cd)	4751	S/MH(C0/180)	0.39
NOMINAL POWER(W)	12	LOR(%)	85.6	S/MH(C90/270)	0.40
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	899.23	UP,DN(C0-180)	0.0,42.2
NOMINAL FLUX(lm)	1050.8	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,43.4
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	48	down(%)	85.6	CIBSE SHR MAX	0.30



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	3223	3138	3082	3061	3112	3174	3244	3292	0- 10	378.6	378.6	42.1,36
20	507.6	478.5	450.4	433.0	435.0	454.2	480.1	528.6	10- 20	422.0	800.6	89,76.2
30	51.87	47.08	45.62	47.70	47.31	47.78	50.14	55.16	20- 30	76.31	877.0	97.5,83.5
40	12.35	11.48	11.45	11.74	11.61	11.86	12.78	13.45	30- 40	15.86	892.8	99.3,85
50	2.665	2.713	2.562	2.575	2.441	2.825	3.030	2.909	40- 50	4.996	897.8	99.8,85.4
60	0.7255	0.7347	0.6706	0.7623	0.4959	0.5555	0.6637	0.5367	50- 60	1.182	899.0	100,85.6
70	0.0383	0.0327	0.0366	0.0360	0.0378	0.0329	0.0341	0.0307	60- 70	0.1868	899.2	100,85.6
80	0.0340	0.0185	0.0292	0.0186	0.0288	0.0186	0.0282	0.0217	70- 80	0.0286	899.2	100,85.6
90	0	0	0	0	0	0	0	0	80- 90	0.0214	899.2	100,85.6
100	0	0	0	0	0	0	0	0	90-100	0	899.2	100,85.6
110	0	0	0	0	0	0	0	0	100-110	0	899.2	100,85.6
120	0	0	0	0	0	0	0	0	110-120	0	899.2	100,85.6
130	0	0	0	0	0	0	0	0	120-130	0	899.2	100,85.6
140	0	0	0	0	0	0	0	0	130-140	0	899.2	100,85.6
150	0	0	0	0	0	0	0	0	140-150	0	899.2	100,85.6
160	0	0	0	0	0	0	0	0	150-160	0	899.2	100,85.6
170	0	0	0	0	0	0	0	0	160-170	0	899.2	100,85.6
180	0	0	0	0	0	0	0	0	170-180	0	899.2	100,85.6
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

Test:U:47.997V I:0.2449A P:11.755W PF:1.0000 Freq:49.99Hz
Lamp Flux:1050.8x1 lm

NAME: OZ48-SB-50

TYPE:

WEIGHT:

SPEC.: 3000K

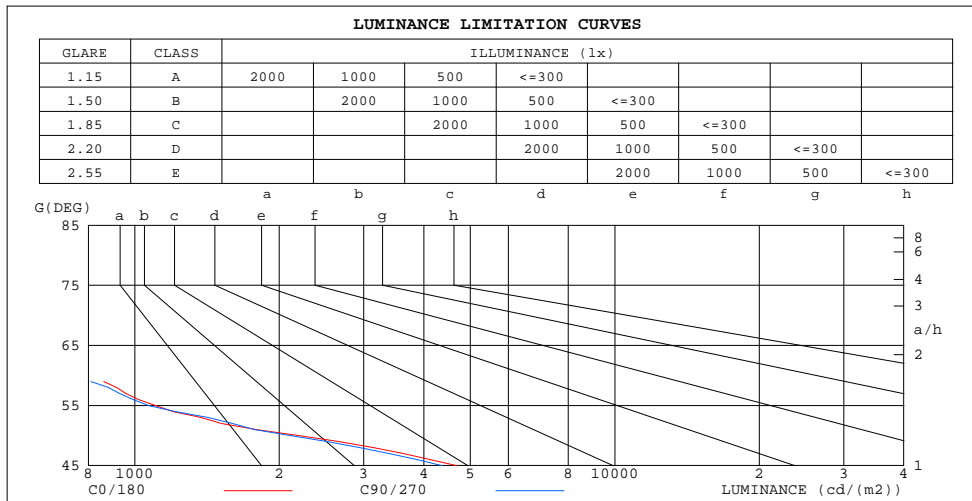
DIM.:

SERIAL No.: 2412211494

MFR.: RISE

SUR.: 0.001884785m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	194	149
80	104	89
75	72	57
70	59	57
65	124	117
60	770	712
55	1106	1068
50	2201	2115
45	4694	4371

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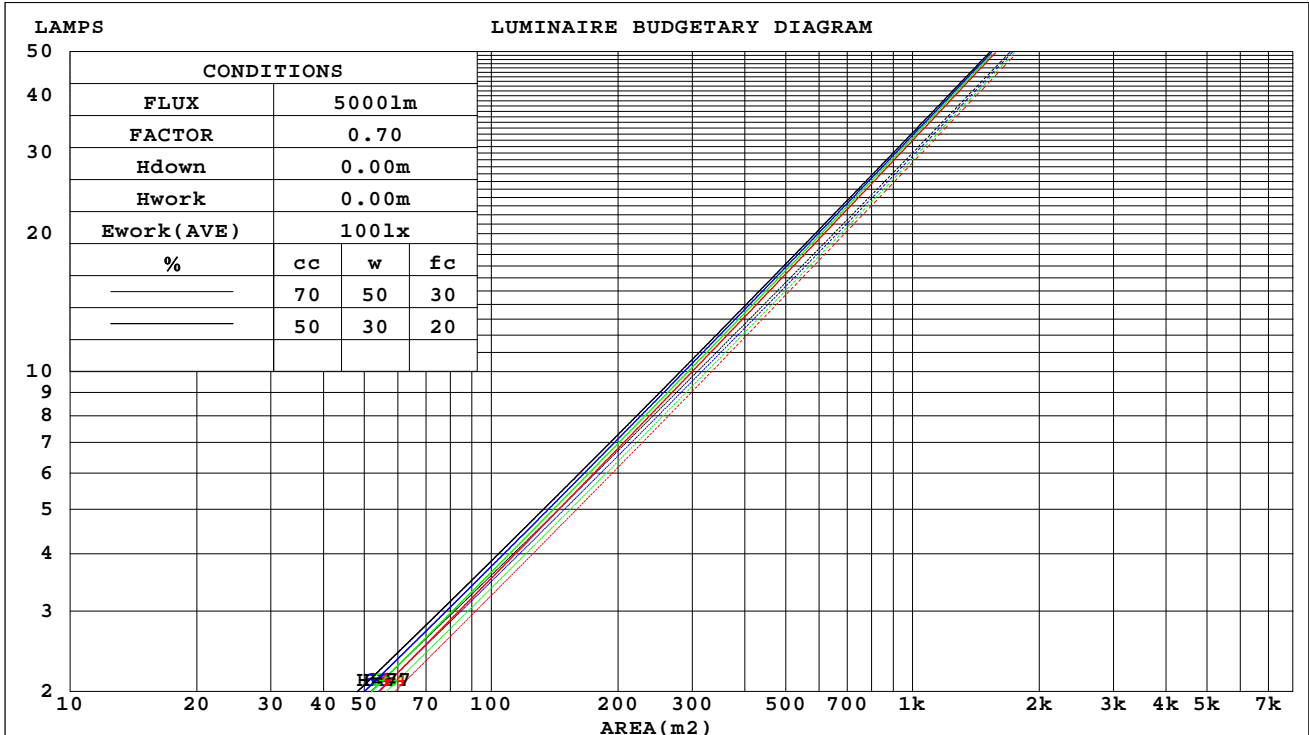
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2412211494
MFR.: RISE	SUR.: 0.001884785m2	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.: 2412211494
MFR.: RISE	SUR.: 0.001884785m2	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	.110	.062	.020	.104	.059	.019	.093	.054	.017	.084	.048	.015	.075	.043	.014	
2.0	.101	.055	.017	.096	.053	.016	.087	.049	.015	.079	.045	.014	.072	.041	.013	
3.0	.093	.050	.015	.089	.048	.014	.082	.045	.014	.076	.041	.013	.069	.038	.012	
4.0	.087	.045	.013	.084	.044	.013	.078	.041	.012	.072	.039	.012	.067	.036	.011	
5.0	.082	.042	.012	.079	.040	.012	.074	.038	.011	.069	.036	.011	.065	.034	.010	
6.0	.077	.039	.011	.075	.038	.011	.070	.036	.010	.066	.034	.010	.062	.033	.010	
7.0	.073	.036	.010	.071	.035	.010	.067	.034	.010	.064	.033	.009	.060	.031	.009	
8.0	.069	.034	.010	.068	.033	.009	.064	.032	.009	.061	.031	.009	.058	.030	.009	
9.0	.066	.032	.009	.065	.031	.009	.062	.031	.009	.059	.030	.008	.056	.029	.008	
10.0	.063	.030	.008	.062	.030	.008	.059	.029	.008	.057	.028	.008	.055	.027	.008	

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	.163	.163	.163	.139	.139	.139	.095	.095	.095	.055	.055	.055	.017	.017	.017	
1.0	.144	.135	.127	.123	.116	.110	.084	.080	.076	.048	.046	.044	.015	.015	.014	
2.0	.128	.114	.102	.109	.098	.088	.075	.068	.061	.043	.039	.036	.014	.013	.012	
3.0	.114	.097	.083	.098	.084	.072	.067	.058	.051	.039	.034	.030	.012	.011	.010	
4.0	.103	.084	.069	.088	.072	.060	.061	.050	.042	.035	.029	.025	.011	.010	.008	
5.0	.094	.073	.058	.081	.063	.050	.055	.044	.035	.032	.026	.021	.010	.008	.007	
6.0	.086	.064	.049	.074	.056	.042	.051	.039	.030	.030	.023	.018	.010	.007	.006	
7.0	.079	.057	.042	.068	.050	.036	.047	.035	.026	.027	.020	.015	.009	.007	.005	
8.0	.073	.051	.036	.063	.044	.031	.044	.031	.022	.025	.018	.013	.008	.006	.004	
9.0	.068	.046	.031	.059	.040	.027	.041	.028	.019	.024	.017	.012	.008	.005	.004	
10.0	.064	.042	.028	.055	.037	.024	.038	.026	.017	.022	.015	.010	.007	.005	.003	

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2412211494		
MFR.: RISE					SUR.: 0.001884785m2			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	5.1	5.6	5.3	5.8	5.9	4.2	4.8	4.4	4.9	5.1
	3H	4.9	5.5	5.1	5.6	5.8	4.0	4.6	4.3	4.8
	4H	4.8	5.4	5.1	5.6	5.8	4.0	4.5	4.2	4.7
	6H	4.8	5.3	5.0	5.5	5.7	3.9	4.4	4.2	4.6
	8H	4.7	5.2	5.0	5.4	5.7	3.8	4.3	4.1	4.6
	12H	4.7	5.1	5.0	5.4	5.7	3.8	4.3	4.1	4.5
4H	2H	4.9	5.4	5.1	5.6	5.8	4.0	4.5	4.2	4.7
	3H	4.7	5.2	5.0	5.4	5.7	3.8	4.3	4.1	4.5
	4H	4.6	5.0	4.9	5.3	5.6	3.7	4.1	4.1	4.4
	6H	4.5	4.9	4.9	5.2	5.5	3.6	4.0	4.0	4.3
	8H	4.4	4.8	4.8	5.1	5.5	3.6	3.9	3.9	4.3
	12H	4.4	4.7	4.8	5.1	5.5	3.5	3.8	3.9	4.2
8H	4H	4.4	4.8	4.8	5.1	5.5	3.6	3.9	3.9	4.3
	6H	4.3	4.6	4.7	5.0	5.4	3.4	3.7	3.9	4.1
	8H	4.3	4.5	4.7	4.9	5.4	3.4	3.7	3.8	4.1
	12H	4.2	4.4	4.7	4.9	5.3	3.3	3.6	3.8	4.0
12H	4H	4.4	4.7	4.8	5.1	5.5	3.5	3.8	3.9	4.2
	6H	4.3	4.5	4.7	4.9	5.4	3.4	3.6	3.8	4.1
	8H	4.2	4.4	4.7	4.9	5.3	3.3	3.6	3.8	4.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.2 / - 9.7					+ 3.3 / - 9.4				
1.5H	+ 5.0 / - 7.3					+ 5.1 / - 7.2				
2.0H	+ 5.9 / -13.8					+ 5.9 / -13.8				

CIE Pub.117, 1051 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.2)
Area: 0.00188479 m2

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UTILIZATION FACTORS TABLE

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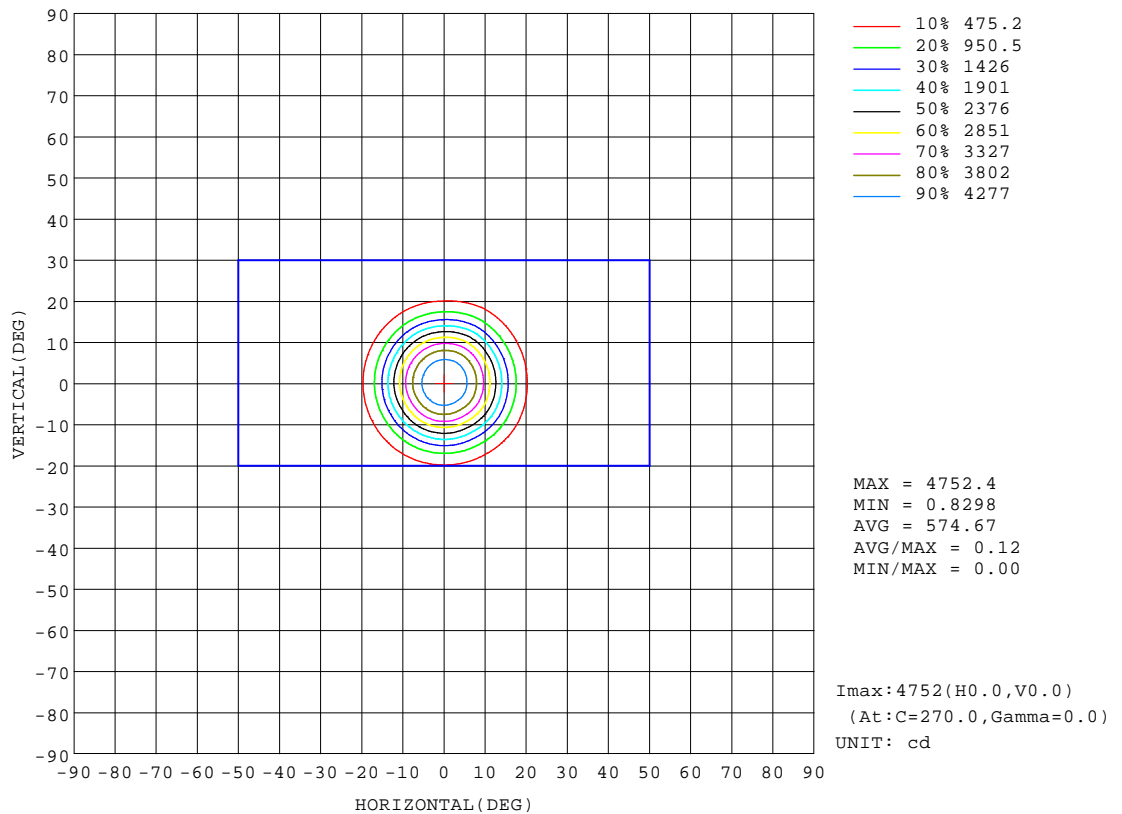
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	78	73	70	78	73	70	77	73	70	67
0.80	84	79	77	83	79	77	82	79	76	73
1.00	87	83	80	86	82	80	85	82	79	76
1.25	90	86	84	89	86	83	88	85	83	79
1.50	92	89	86	91	88	86	89	87	85	81
2.00	94	91	88	93	90	88	91	88	86	82
2.50	95	92	90	94	91	89	91	89	88	83
3.00	96	94	92	95	93	91	92	90	89	84
4.00	98	96	94	96	95	93	93	92	91	85
5.00	99	97	96	97	96	95	94	93	92	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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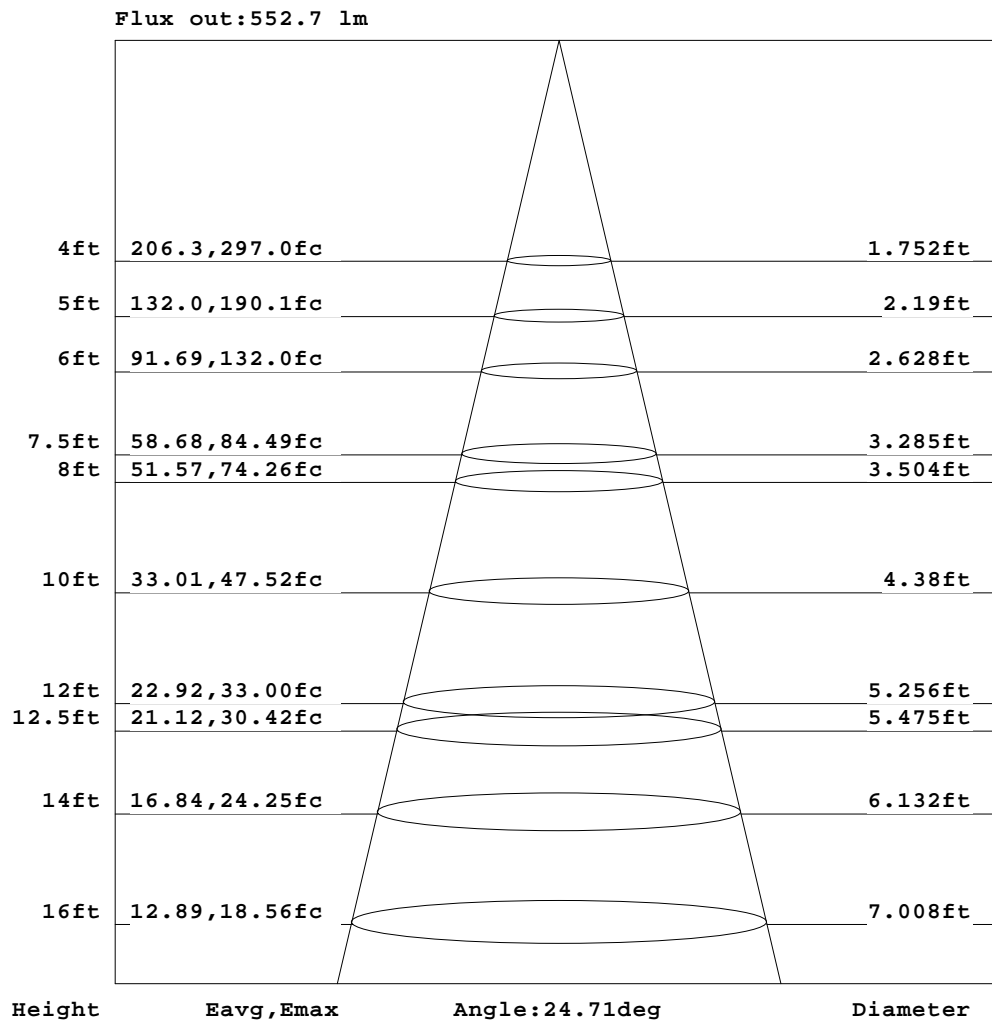


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AAI Figure

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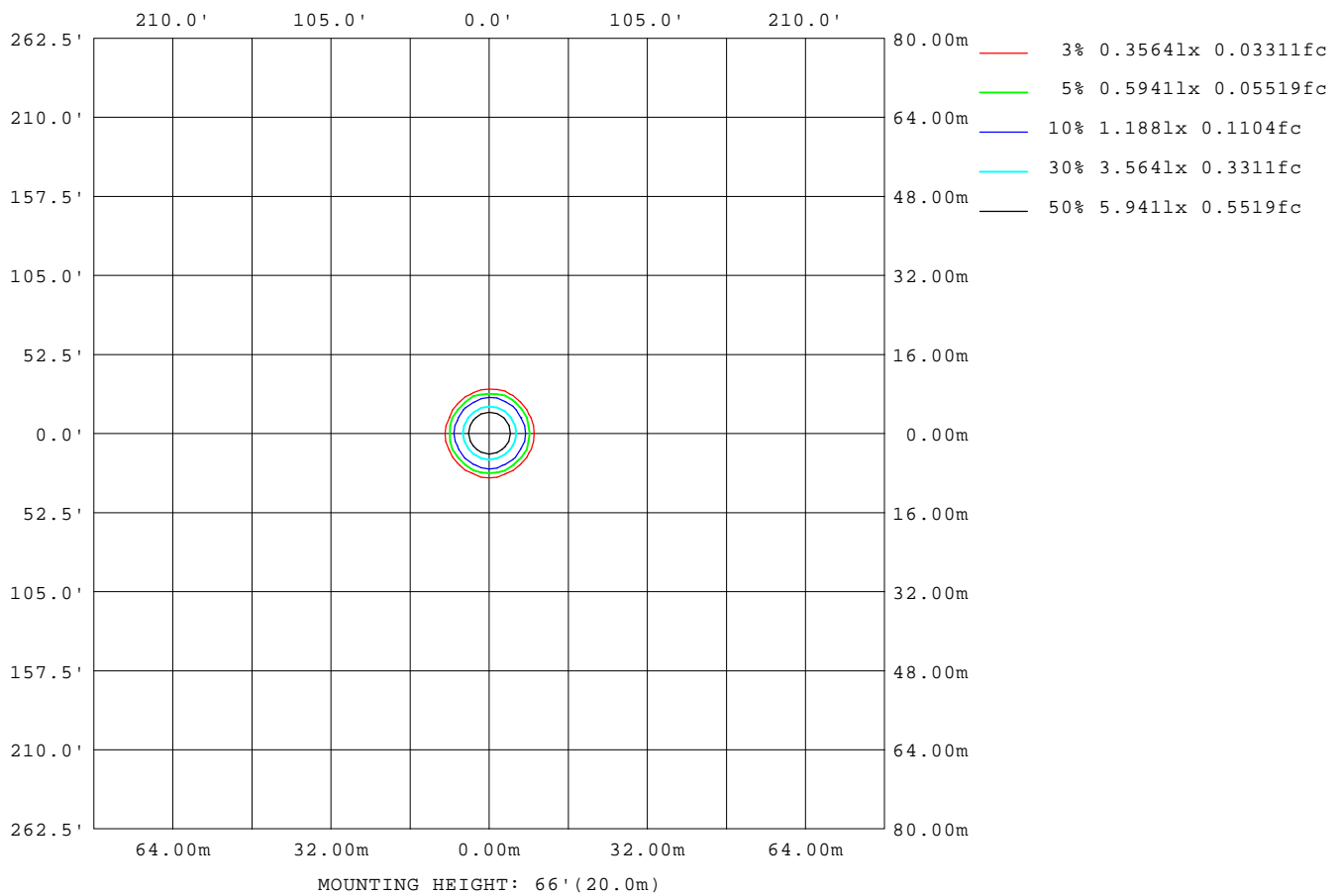
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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NAME: OZ48-SB-50	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412211494
MFR.: RISE	SUR.: 0.001884785m2	Shielding Angle:

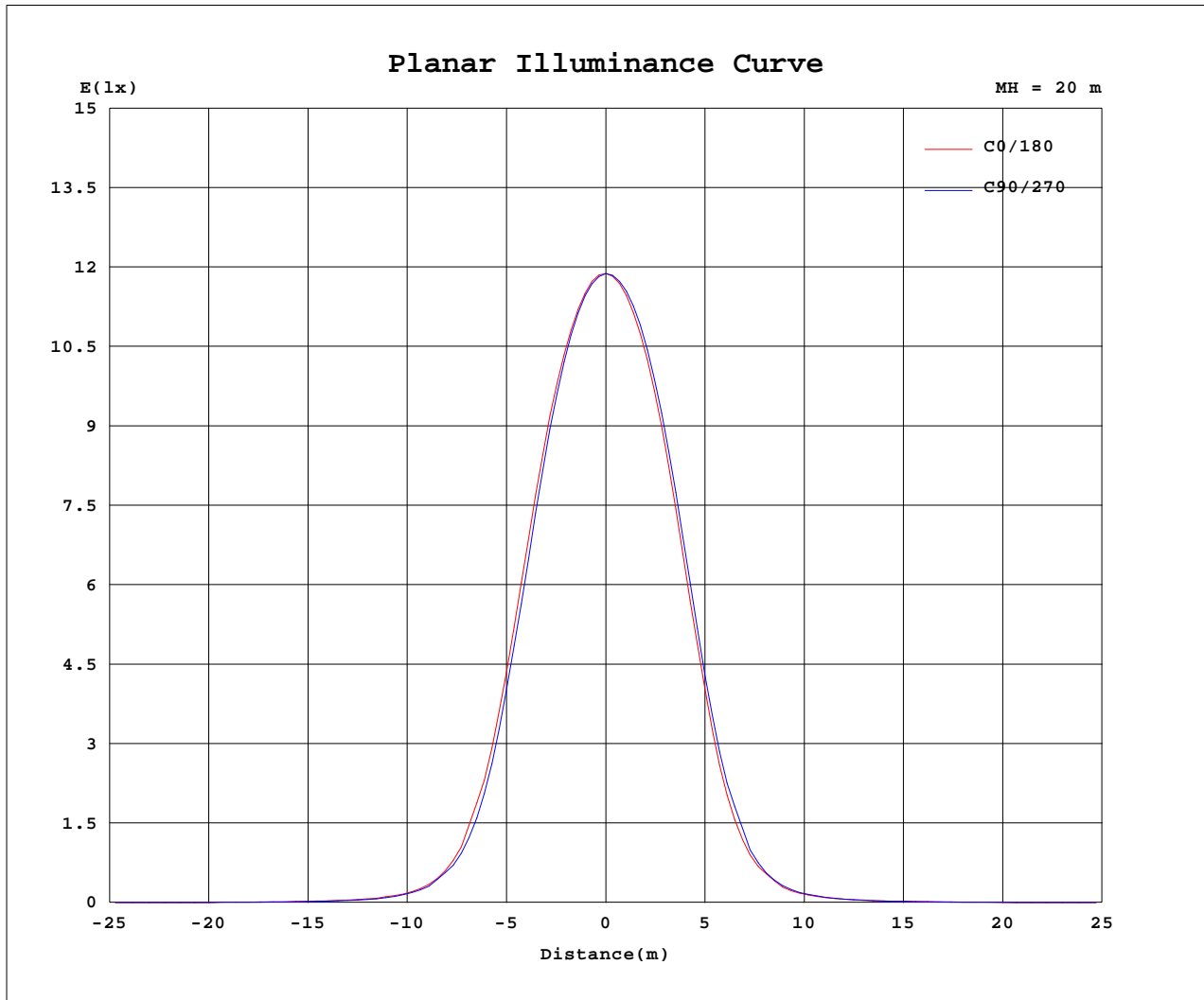
AvgL	cd/m2
L_0~180(65)av	116
L_0~180(75)av	68
L_0~180(85)av	181
L_90~270(65)av	113
L_90~270(75)av	56
L_90~270(85)av	160
L_45(65)av	108
L_45(75)av	49
L_45(85)av	92

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-12-21

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:BXRH-30H1000-B-83 Ra:95
LENS:PM-1082A 24R
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: 2024-12-21

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: BXRH-30H1000-B-83 Ra: 95
 LENS: PM-1082A 24R
 NOT DRIVER: 48V
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:47.997V I:0.2449A P:11.755W PF:1.0000 Freq:49.99Hz Lamp Flux:1050.8x1 lm		
NAME: OZ48-SB-50	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412211494
MFR.: RISE	SUR.: 0.001884785m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	4751	4751	4751	4751	4751	4751	4751	4751	4751	4751	4751	4751						
5	4373	4360	4330	4337	4336	4333	4342	4347	4387	4411	4430	4403						
10	3223	3190	3086	3082	3073	3049	3112	3147	3200	3244	3321	3264						
15	1608	1594	1465	1458	1431	1409	1453	1471	1546	1575	1712	1628						
20	508	505	452	450	439	427	435	435	473	480	544	513						
25	143	142	132	132	128	124	122	122	130	133	151	144						
30	51.9	50.3	43.8	45.6	47.5	47.9	47.3	48.0	47.5	50.1	56.6	53.8						
35	24.7	23.9	20.2	22.3	23.8	23.6	23.4	23.3	21.8	24.1	27.0	25.8						
40	12.3	12.2	10.7	11.4	11.8	11.7	11.6	12.1	11.7	12.8	13.9	13.0						
45	6.25	6.38	5.60	5.82	6.02	5.86	5.71	6.14	6.19	6.69	7.01	6.43						
50	2.67	2.85	2.57	2.56	2.66	2.49	2.44	2.70	2.95	3.03	3.06	2.76						
55	1.19	1.29	1.19	1.15	1.22	1.15	1.00	0.97	1.15	1.17	1.06	1.08						
60	0.73	0.78	0.69	0.67	0.81	0.72	0.50	0.43	0.68	0.66	0.50	0.57						
65	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.09	0.09	0.09						
70	0.04	0.03	0.03	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03						
75	0.04	0.03	0.02	0.03	0.03	0.02	0.03	0.02	0.02	0.03	0.02	0.03						
80	0.03	0.02	0.02	0.03	0.02	0.02	0.03	0.02	0.02	0.03	0.02	0.03						
85	0.03	0.01	0.02	0.02	0.02	0.02	0.03	0.02	0.01	0.03	0.01	0.02						
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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