

Luminaire Photograph



Light Output Ratio:	81.2%	
Luminaire Power:	6.432 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: 2024-12-18

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: BXRH-30G60T0-C-83 Ra: 90
LENS: PM-1117A 24R
NOT DRIVER: DC 48V
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

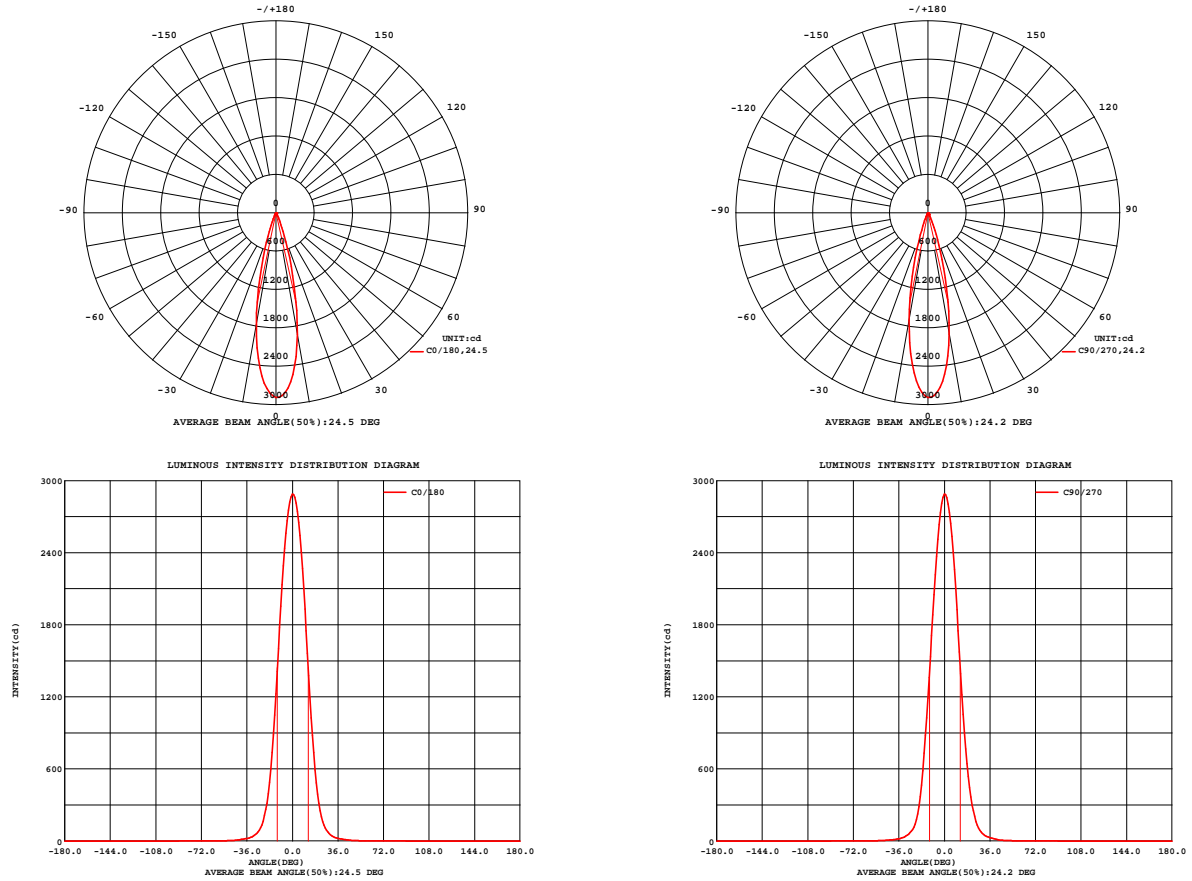


Fig. C0/C180

Fig. C90/C270

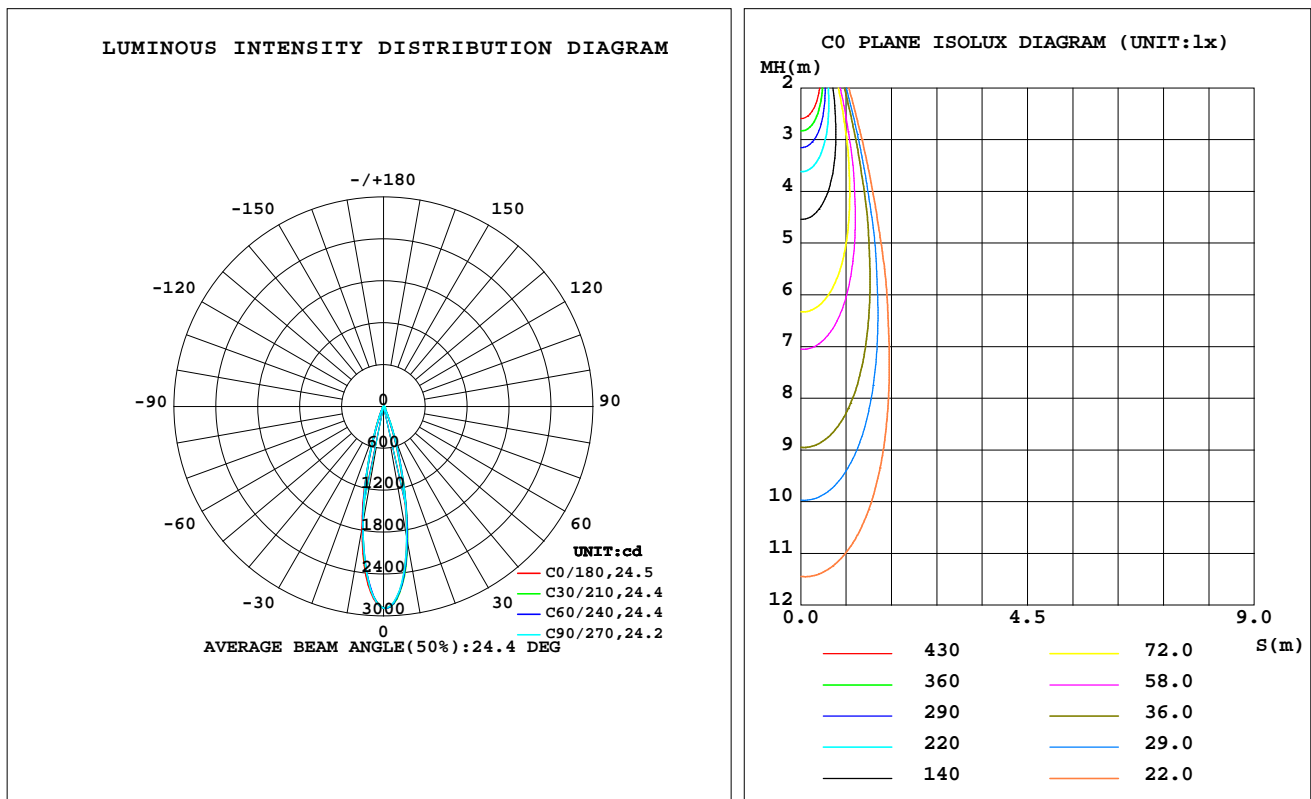
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:47.997V I:0.1340A P:6.4316W PF:1.0000 Freq:49.99Hz Lamp Flux:712.09x1 lm		
NAME: OZ48-CT-28	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412181478
MFR.: RISE	SUR.: 0.000346185m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 89.86 lm/W			
MODEL	Bridgelux	I _{max} (cd)	2889	S/MH(C0/180)	0.39
NOMINAL POWER(W)	6	LOR(%)	81.2	S/MH(C90/270)	0.39
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	577.95	η UP,DN(C0-180)	0.0,43.2
NOMINAL FLUX(lm)	712.09	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,37.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	48	η down(%)	81.2	CIBSE SHR MAX	0.30



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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	1931	1969	1925	1845	1776	1717	1710	1827	0- 10	223.0	223.0	38.6,31.3
20	391.3	445.5	443.8	377.3	314.3	289.1	287.5	334.2	10- 20	263.4	486.4	84.2,68.3
30	52.00	62.81	63.82	54.88	45.47	42.20	42.76	46.23	20- 30	66.44	552.9	95.7,77.6
40	14.73	16.85	17.57	15.63	13.36	12.11	11.61	13.12	30- 40	17.24	570.1	98.6,80.1
50	3.527	3.643	3.597	3.512	3.170	3.176	3.362	3.580	40- 50	5.656	575.8	99.6,80.9
60	0.9005	0.9299	0.9221	0.8056	0.7431	0.7373	0.7915	0.8918	50- 60	1.864	577.6	99.9,81.1
70	0.0870	0.0794	0.0707	0.0682	0.0740	0.0739	0.0856	0.0855	60- 70	0.2568	577.9	100,81.2
80	0.0282	0.0151	0.0183	0.0155	0.0217	0.0141	0.0236	0.0181	70- 80	0.0429	577.9	100,81.2
90	0	0	0	0	0	0	0	0	80- 90	0.0124	578.0	100,81.2
100	0	0	0	0	0	0	0	0	90-100	0	578.0	100,81.2
110	0	0	0	0	0	0	0	0	100-110	0	578.0	100,81.2
120	0	0	0	0	0	0	0	0	110-120	0	578.0	100,81.2
130	0	0	0	0	0	0	0	0	120-130	0	578.0	100,81.2
140	0	0	0	0	0	0	0	0	130-140	0	578.0	100,81.2
150	0	0	0	0	0	0	0	0	140-150	0	578.0	100,81.2
160	0	0	0	0	0	0	0	0	150-160	0	578.0	100,81.2
170	0	0	0	0	0	0	0	0	160-170	0	578.0	100,81.2
180	0	0	0	0	0	0	0	0	170-180	0	578.0	100,81.2
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Humidity:65.0%
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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:47.997V I:0.1340A P:6.4316W PF:1.0000 Freq:49.99Hz
Lamp Flux:712.09x1 lm

NAME: OZ48-CT-28

TYPE:

WEIGHT:

SPEC.: 3000K

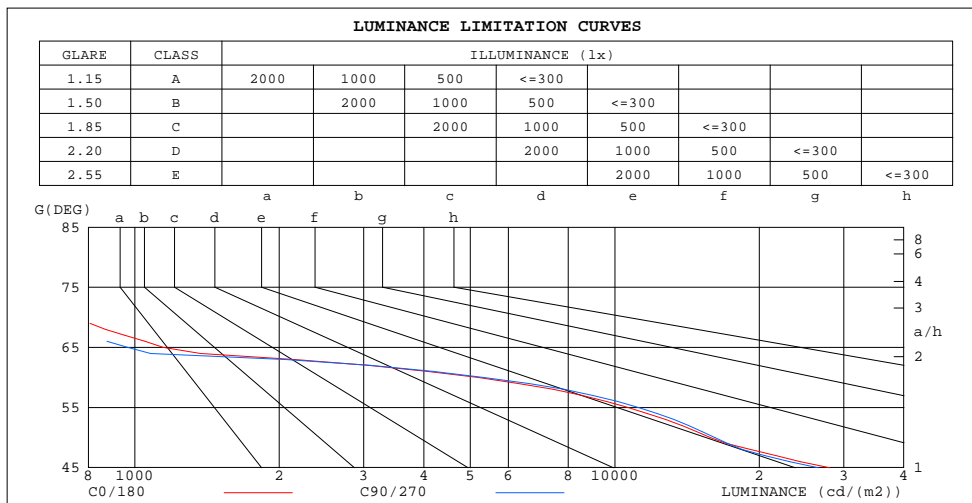
DIM.:

SERIAL No.: 2412181478

MFR.: RISE

SUR.: 0.000346185m2

Shielding Angle:



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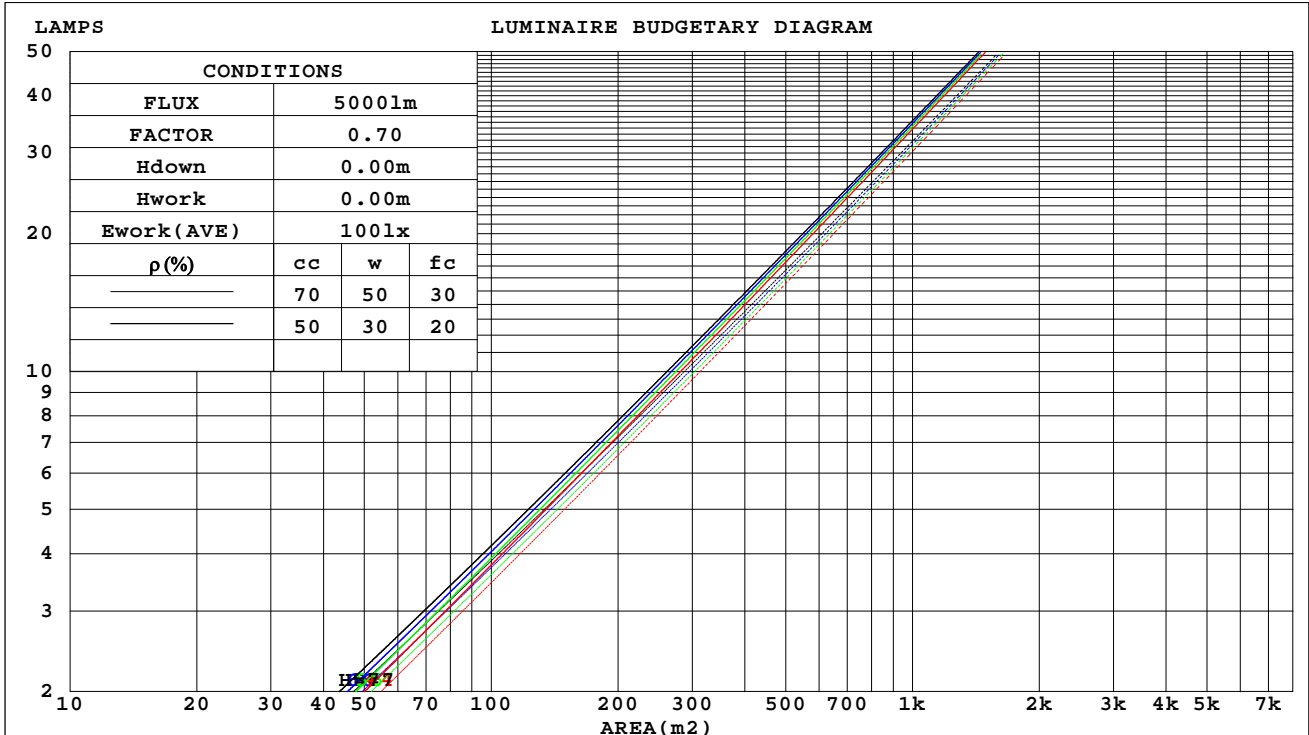
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2412181478
MFR.: RISE	SUR.: 0.000346185m2	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															



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WEC AND CCEC

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SPEC.: 3000K	DIM.:	SERIAL No.: 2412181478
MFR.: RISE	SUR.: 0.000346185m2	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	.108	.061	.019	.102	.058	.019	.092	.053	.017	.083	.048	.015	.075	.043	.014	
2.0	.100	.055	.017	.095	.052	.016	.087	.048	.015	.079	.045	.014	.072	.041	.013	
3.0	.093	.049	.015	.089	.048	.014	.082	.044	.014	.076	.042	.013	.070	.039	.012	
4.0	.087	.045	.013	.084	.044	.013	.078	.041	.012	.072	.039	.012	.067	.037	.011	
5.0	.082	.042	.012	.079	.041	.012	.074	.039	.011	.069	.037	.011	.065	.035	.010	
6.0	.077	.039	.011	.075	.038	.011	.071	.036	.011	.067	.035	.010	.063	.033	.010	
7.0	.073	.036	.010	.071	.035	.010	.067	.034	.010	.064	.033	.010	.061	.032	.009	
8.0	.070	.034	.010	.068	.033	.009	.065	.032	.009	.062	.031	.009	.059	.030	.009	
9.0	.066	.032	.009	.065	.032	.009	.062	.031	.009	.059	.030	.009	.057	.029	.008	
10.0	.064	.031	.008	.062	.030	.008	.060	.029	.008	.057	.029	.008	.055	.028	.008	

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	.155	.155	.155	.132	.132	.132	.090	.090	.090	.052	.052	.052	.017	.017	.017		
1.0	.136	.128	.120	.117	.110	.104	.080	.076	.072	.046	.044	.042	.015	.014	.013		
2.0	.121	.108	.096	.104	.093	.083	.071	.064	.058	.041	.037	.034	.013	.012	.011		
3.0	.109	.092	.078	.094	.079	.068	.064	.055	.048	.037	.032	.028	.012	.010	.009		
4.0	.099	.079	.065	.085	.069	.056	.058	.048	.039	.034	.028	.023	.011	.009	.008		
5.0	.090	.069	.054	.077	.060	.047	.053	.042	.033	.031	.025	.020	.010	.008	.006		
6.0	.083	.061	.046	.071	.053	.040	.049	.037	.028	.028	.022	.017	.009	.007	.006		
7.0	.077	.054	.039	.066	.047	.034	.046	.033	.024	.026	.020	.014	.009	.006	.005		
8.0	.071	.049	.034	.061	.042	.029	.042	.030	.021	.025	.018	.012	.008	.006	.004		
9.0	.067	.044	.029	.057	.038	.026	.040	.027	.018	.023	.016	.011	.007	.005	.004		
10.0	.063	.040	.026	.054	.035	.022	.037	.025	.016	.022	.015	.010	.007	.005	.003		

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γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
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Test Distance:3.160m [K=1.0000]
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LENS:PM-1117A 24R
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30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:47.997V I:0.1340A P:6.4316W PF:1.0000 Freq:49.99Hz Lamp Flux:712.09x1 lm										
NAME: OZ48-CT-28					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2412181478		
MFR.: RISE					SUR.: 0.000346185m2			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	14.9	15.6	15.1	15.7	15.9	15.6	16.2	15.8	16.4	16.5
3H	14.8	15.4	15.0	15.6	15.7	15.5	16.0	15.7	16.2	16.4
4H	14.7	15.3	15.0	15.5	15.7	15.4	15.9	15.6	16.1	16.4
6H	14.6	15.2	14.9	15.4	15.6	15.3	15.8	15.6	16.1	16.3
8H	14.6	15.1	14.9	15.3	15.6	15.3	15.8	15.6	16.0	16.3
12H	14.5	15.0	14.9	15.3	15.6	15.2	15.7	15.5	16.0	16.2
4H 2H	14.8	15.3	15.0	15.5	15.7	15.4	16.0	15.7	16.2	16.4
3H	14.6	15.1	14.9	15.3	15.6	15.2	15.7	15.5	16.0	16.3
4H	14.5	14.9	14.8	15.2	15.5	15.1	15.6	15.5	15.9	16.2
6H	14.4	14.8	14.8	15.1	15.5	15.0	15.4	15.4	15.8	16.1
8H	14.3	14.7	14.7	15.1	15.4	15.0	15.4	15.4	15.7	16.1
12H	14.3	14.6	14.7	15.0	15.4	14.9	15.3	15.3	15.6	16.0
8H 4H	14.3	14.7	14.7	15.0	15.4	15.0	15.4	15.4	15.7	16.1
6H	14.2	14.5	14.6	14.9	15.3	14.9	15.2	15.3	15.6	16.0
8H	14.2	14.4	14.6	14.8	15.3	14.8	15.1	15.3	15.5	15.9
12H	14.1	14.3	14.6	14.8	15.2	14.8	15.0	15.2	15.4	15.9
12H 4H	14.3	14.6	14.7	15.0	15.4	14.9	15.3	15.3	15.6	16.0
6H	14.2	14.4	14.6	14.8	15.3	14.8	15.1	15.3	15.5	15.9
8H	14.1	14.3	14.6	14.8	15.2	14.7	15.0	15.2	15.4	15.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.5 / - 8.3					+ 3.2 / - 8.9				
1.5H	+ 4.2 / - 4.9					+ 5.2 / - 5.5				
2.0H	+ 5.0 / -13.1					+ 4.6 / -13.7				

CIE Pub.117, 712.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.2)
Area: 0.000346185 m2

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Humidity:65.0%
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UTILIZATION FACTORS TABLE

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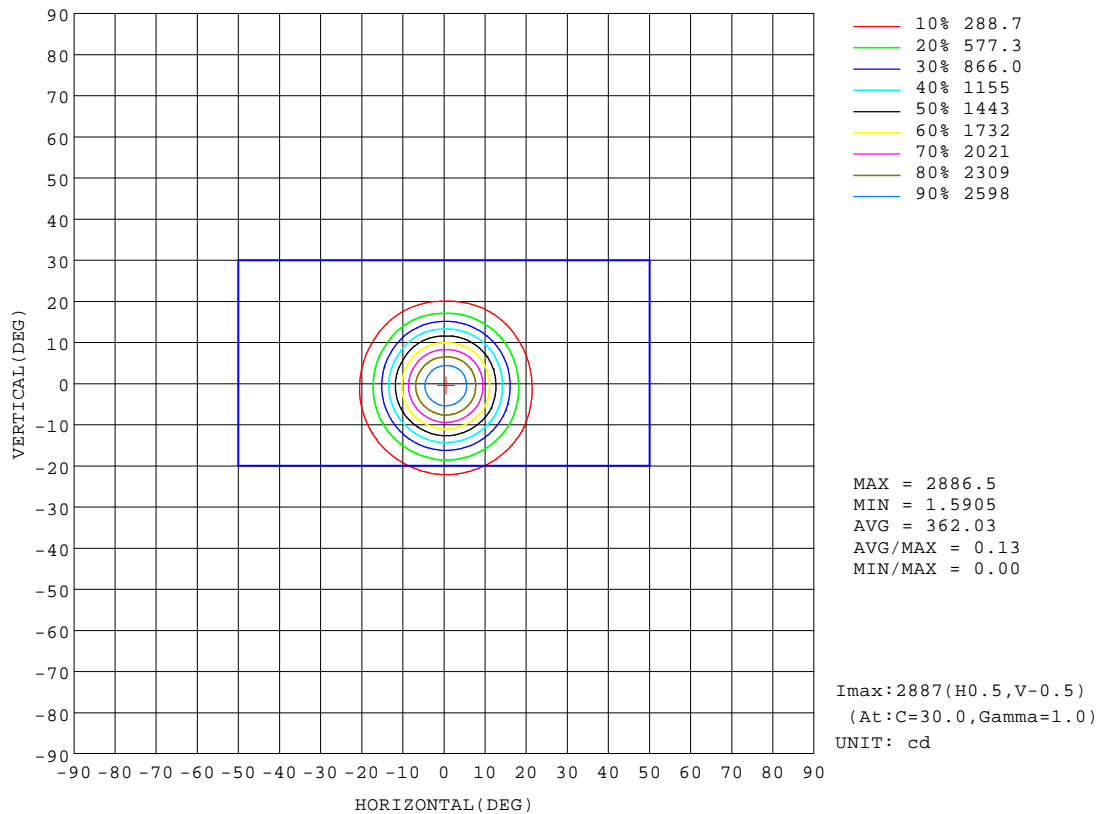
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	74	69	66	73	69	66	73	69	66	63
0.80	79	75	72	79	75	72	78	74	72	69
1.00	82	78	76	82	78	75	81	78	75	72
1.25	85	82	79	84	81	79	83	80	78	75
1.50	87	84	81	86	83	81	85	82	80	77
2.00	89	86	84	88	85	83	86	84	82	78
2.50	90	87	85	89	86	85	87	85	83	78
3.00	91	89	87	90	88	86	87	86	84	79
4.00	93	91	89	91	90	88	88	87	86	80
5.00	94	92	91	92	91	90	89	88	87	81
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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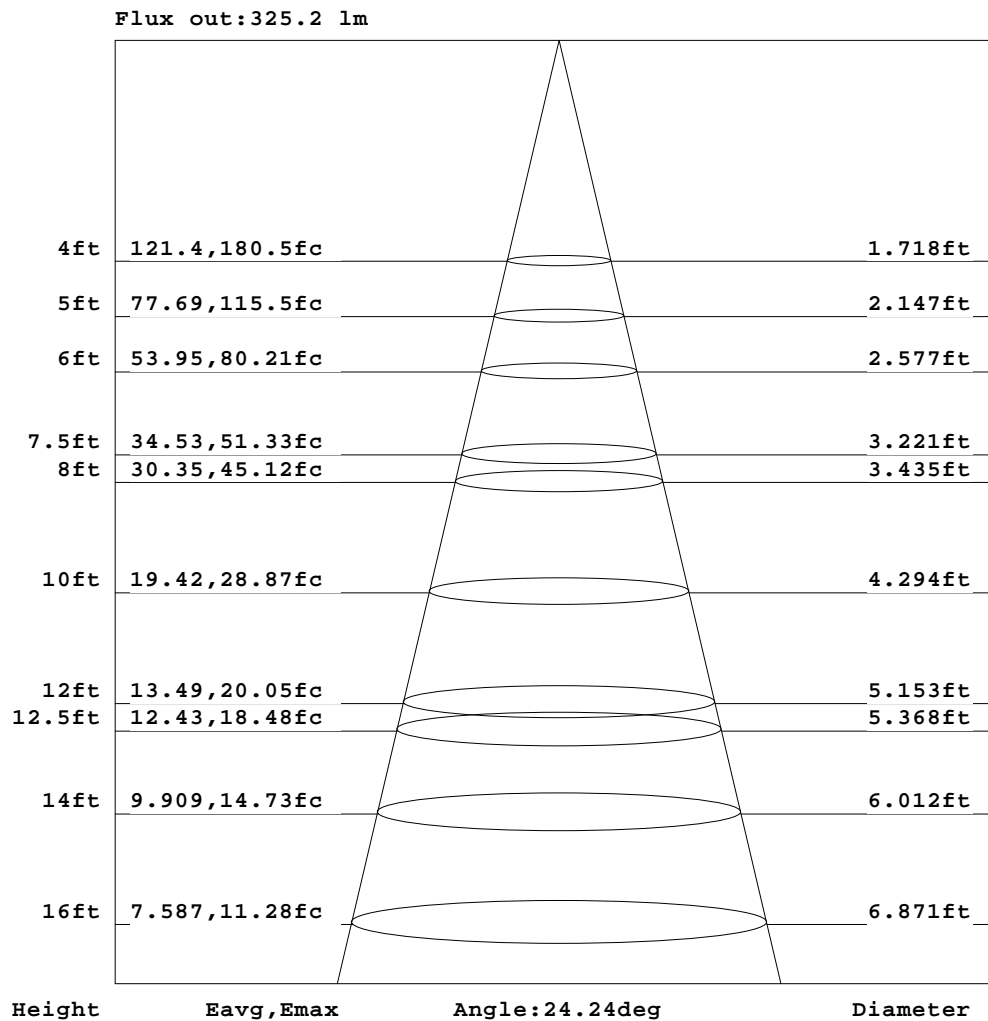


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AAI Figure

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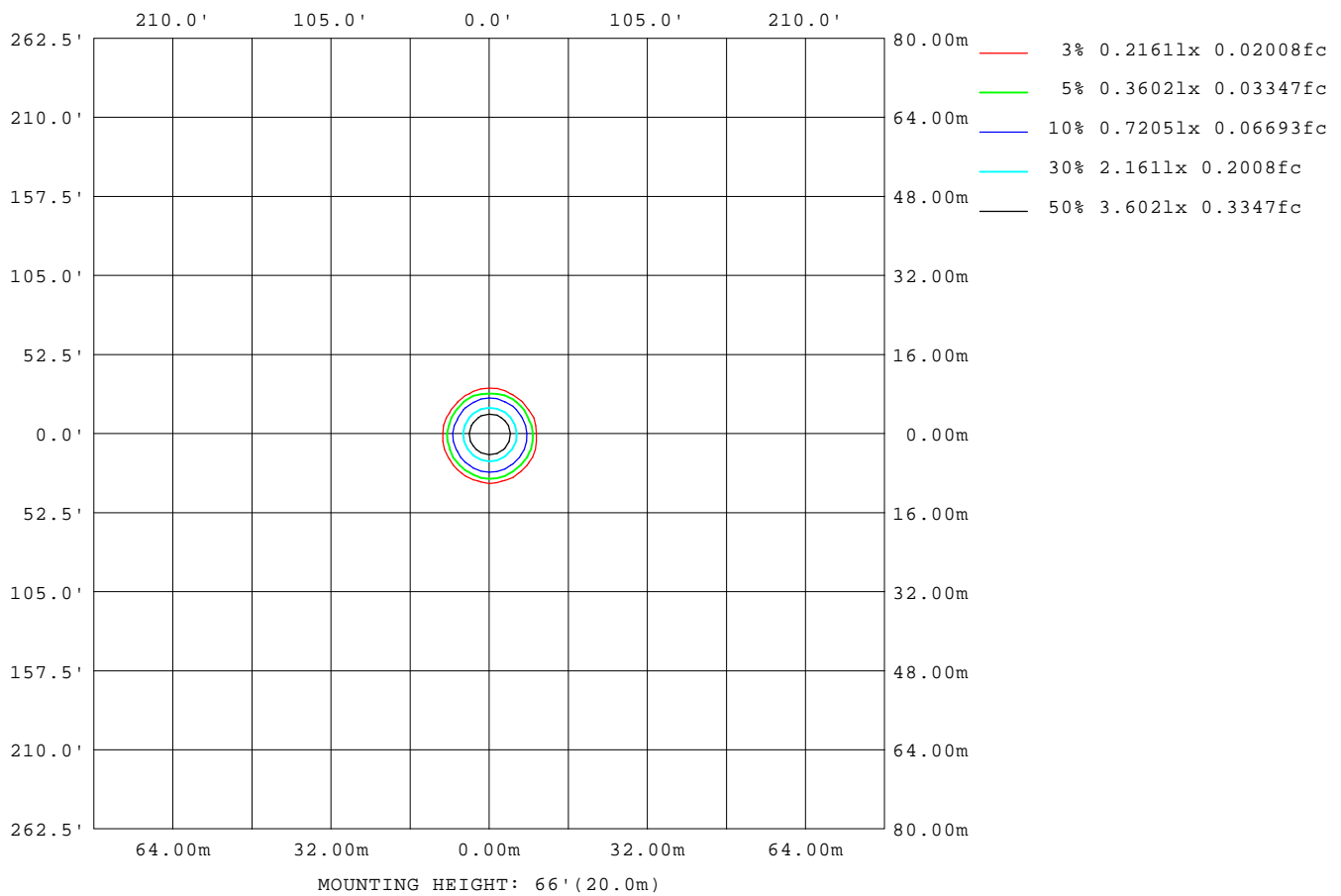
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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30minutes warm-up

LED Avg.L Report

Test:U:47.997V I:0.1340A P:6.4316W PF:1.0000 Freq:49.99Hz Lamp Flux:712.09x1 lm		
NAME: OZ48-CT-28	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412181478
MFR.: RISE	SUR.: 0.000346185m2	Shielding Angle:

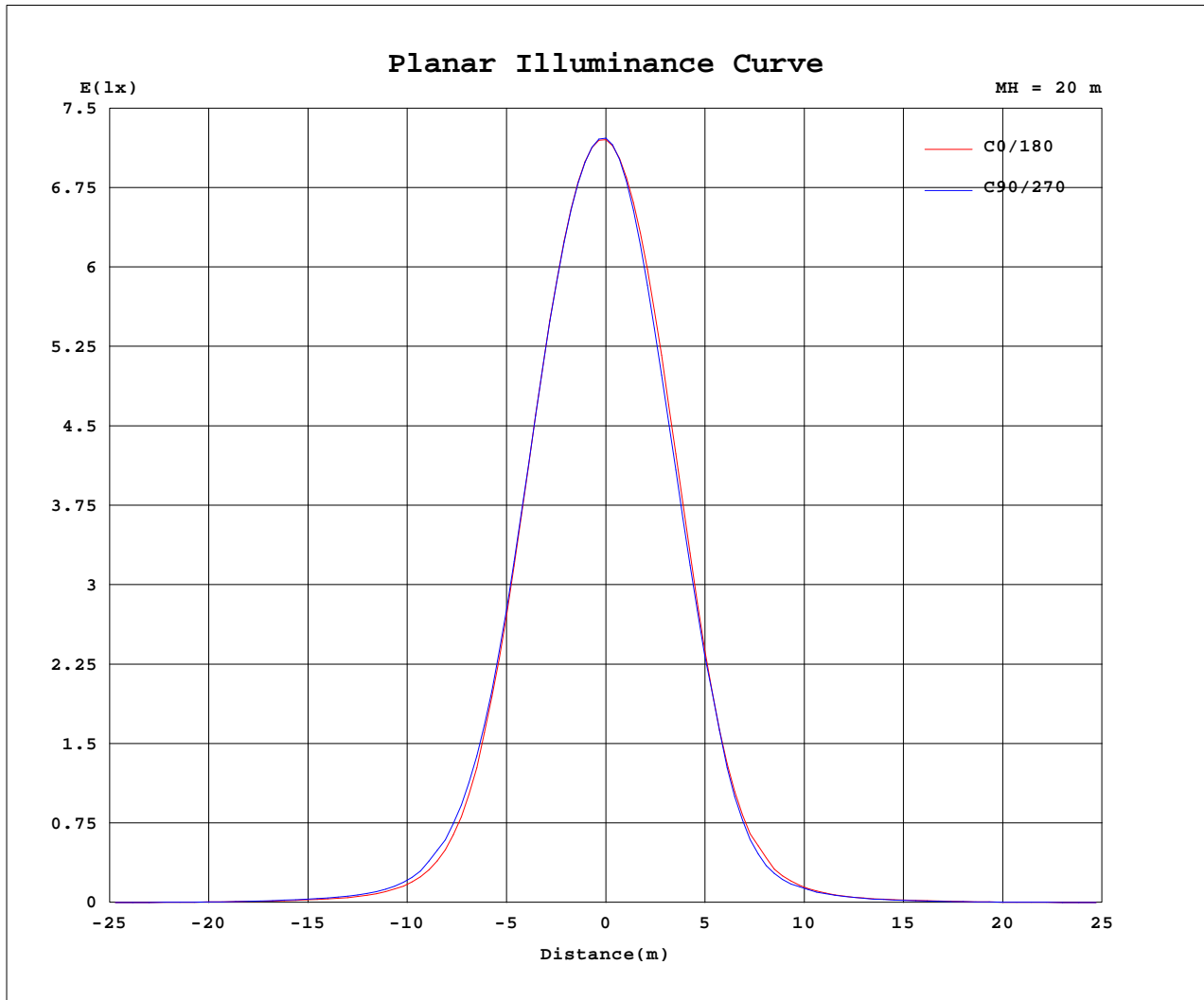
AvgL	cd/m2
L_0~180(65)av	1073
L_0~180(75)av	473
L_0~180(85)av	587
L_90~270(65)av	1053
L_90~270(75)av	437
L_90~270(85)av	524
L_45(65)av	1050
L_45(75)av	390
L_45(85)av	234

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-12-18

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:BXRH-30G60T0-C-83 Ra:90
LENS:PM-1117A 24R
NOT DRIVER:DC 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: 2024-12-18

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: BXRH-30G60T0-C-83 Ra: 90
 LENS: PM-1117A 24R
 NOT DRIVER: DC 48V
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:47.997V I:0.1340A P:6.4316W PF:1.0000 Freq:49.99Hz Lamp Flux:712.09x1 lm		
NAME: OZ48-CT-28	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412181478
MFR.: RISE	SUR.: 0.000346185m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2886	2886	2886	2886	2886	2886	2886	2886	2886	2886	2886	2886						
5	2653	2678	2662	2644	2609	2585	2561	2515	2506	2511	2567	2622						
10	1931	1979	1959	1925	1868	1822	1776	1715	1720	1710	1783	1870						
15	1024	1084	1072	1053	987	934	884	855	867	880	920	977						
20	391	444	447	444	398	357	314	285	293	287	318	350						
25	132	156	162	161	142	125	109	96.6	95.3	94.6	103	114						
30	52.0	59.9	65.7	63.8	58.2	51.6	45.5	41.9	42.5	42.8	44.9	47.6						
35	25.6	29.8	31.9	32.9	30.7	27.0	23.2	21.5	21.6	21.0	22.5	23.7						
40	14.7	16.5	17.2	17.6	16.3	14.9	13.4	12.4	11.8	11.6	12.6	13.6						
45	6.87	6.80	6.63	6.49	6.47	6.22	6.08	6.22	6.22	6.26	6.71	7.09						
50	3.53	3.61	3.67	3.60	3.58	3.45	3.17	3.11	3.24	3.36	3.57	3.59						
55	2.12	2.26	2.28	2.23	2.15	2.03	1.89	1.87	1.94	2.01	2.13	2.13						
60	0.90	0.97	0.89	0.92	0.85	0.76	0.74	0.74	0.74	0.79	0.89	0.89						
65	0.17	0.16	0.15	0.14	0.14	0.14	0.15	0.15	0.16	0.17	0.17	0.17						
70	0.09	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.08	0.09	0.09	0.09						
75	0.05	0.04	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.04	0.04						
80	0.03	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.02	0.02						
85	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.02	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						

C Range: 0 - 360DEG
C Interval: 30.0DEG
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