

Luminaire Photograph



Light Output Ratio:	20.5%	
Luminaire Power:	5.352 W	
SHR Nominal:	1.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2024-12-26

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: HL-A-2835D90W-2-S1-08L-HR5 Ra: 90
DIFFUSER: PL-0101A+PM-0144A+NH-1257
NOT DRIVER: 48V
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

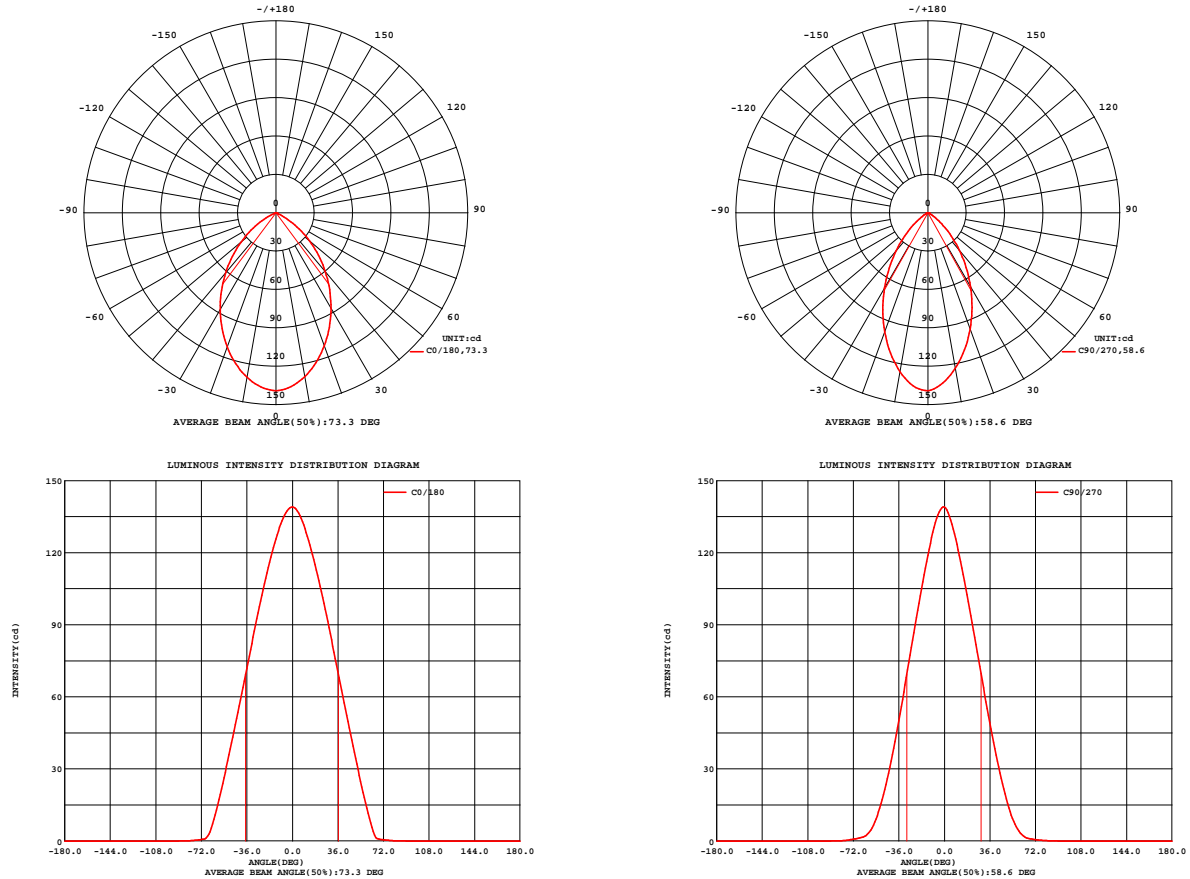


Fig. C0/C180

Fig. C90/C270

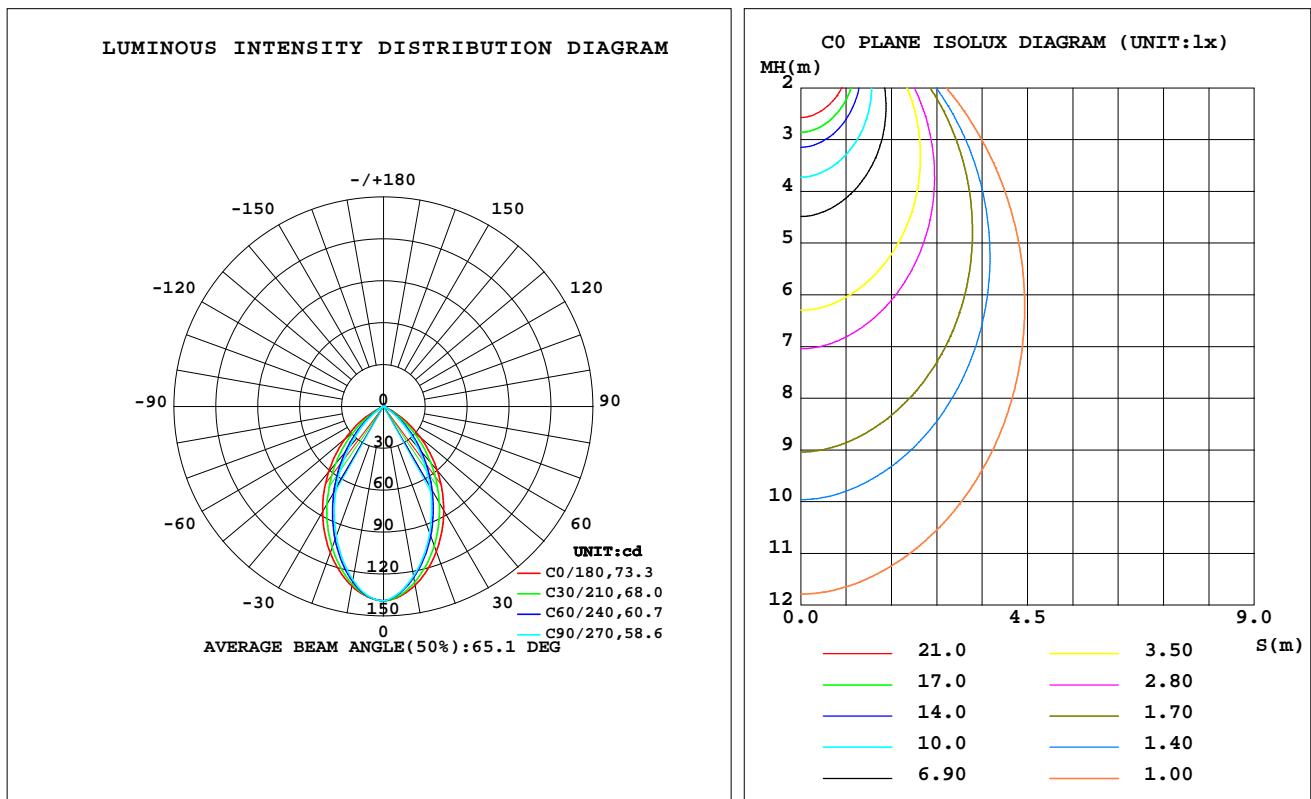
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:47.997V I:0.1115A P:5.3517W PF:1.0000 Freq:0Hz Lamp Flux:823.228x1 lm		
NAME: OZ48-P2HL-3	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412261528
MFR.: RISE	SUR.: 0.00291m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 31.53 lm/W			
MODEL	HONGLI	I _{max} (cd)	139.1	S/MH(C0/180)	0.99
NOMINAL POWER(W)	5	LOR(%)	20.5	S/MH(C90/270)	0.86
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	168.72	UP,DN(C0-180)	0.0,10.2
NOMINAL FLUX(lm)	823.228	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,10.3
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	48	down(%)	20.5	CIBSE SHR MAX	1.00



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ZONAL FLUX DIAGRAM

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	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	130.0	126.2	123.5	126.3	130.6	128.3	126.2	128.1	0- 10	12.67	12.67	7.51,1.54
20	110.6	102.5	96.68	103.1	111.6	104.5	98.97	104.7	10- 20	32.59	45.26	26.8,5.5
30	86.29	74.90	66.75	75.73	87.33	76.29	68.05	76.82	20- 30	41.39	86.65	51.4,10.5
40	60.16	47.50	38.46	48.45	61.30	48.06	38.63	48.85	30- 40	38.82	125.5	74.4,15.2
50	34.49	23.09	15.58	23.99	35.84	23.23	15.42	23.94	40- 50	27.63	153.1	90.7,18.6
60	11.51	5.160	3.439	5.772	12.89	5.447	3.219	5.753	50- 60	12.81	165.9	98.3,20.2
70	0.6169	0.6255	0.7314	0.5869	0.7653	0.8181	0.9230	0.7540	60- 70	2.338	168.3	99.7,20.4
80	0.1070	0.1247	0.1732	0.1283	0.1601	0.1558	0.1637	0.1273	70- 80	0.4084	168.7	100,20.5
90	0	0	0	0	0	0	0	0	80- 90	0.0571	168.7	100,20.5
100	0	0	0	0	0	0	0	0	90-100	0	168.7	100,20.5
110	0	0	0	0	0	0	0	0	100-110	0	168.7	100,20.5
120	0	0	0	0	0	0	0	0	110-120	0	168.7	100,20.5
130	0	0	0	0	0	0	0	0	120-130	0	168.7	100,20.5
140	0	0	0	0	0	0	0	0	130-140	0	168.7	100,20.5
150	0	0	0	0	0	0	0	0	140-150	0	168.7	100,20.5
160	0	0	0	0	0	0	0	0	150-160	0	168.7	100,20.5
170	0	0	0	0	0	0	0	0	160-170	0	168.7	100,20.5
180	0	0	0	0	0	0	0	0	170-180	0	168.7	100,20.5
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

Test:U:47.997V I:0.1115A P:5.3517W PF:1.0000 Freq:0Hz
Lamp Flux:823.228x1 lm

NAME: OZ48-P2HL-3

TYPE:

WEIGHT:

SPEC.: 3000K

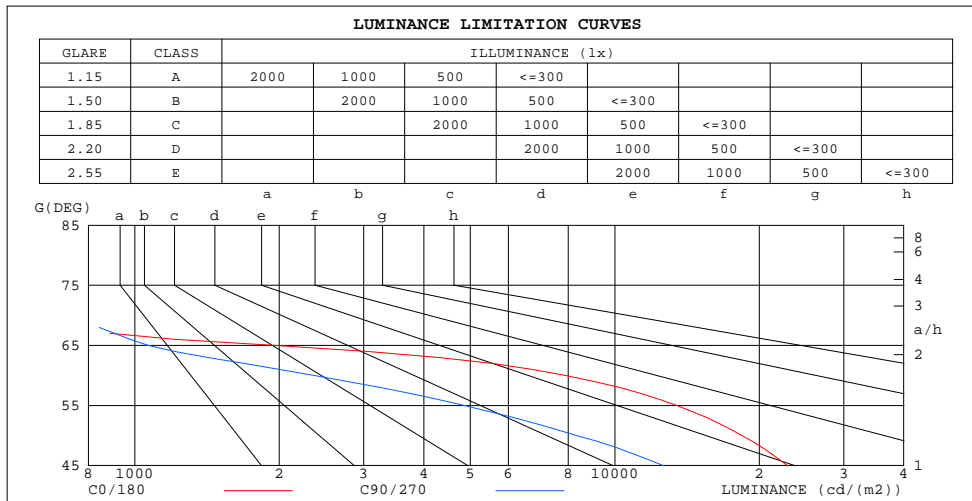
DIM.:

SERIAL No.: 2412261528

MFR.: RISE

SUR.: 0.00291m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	32	391
80	212	343
75	452	499
70	619	735
65	1958	1067
60	7904	2365
55	13474	4872
50	18420	8335
45	22886	12637

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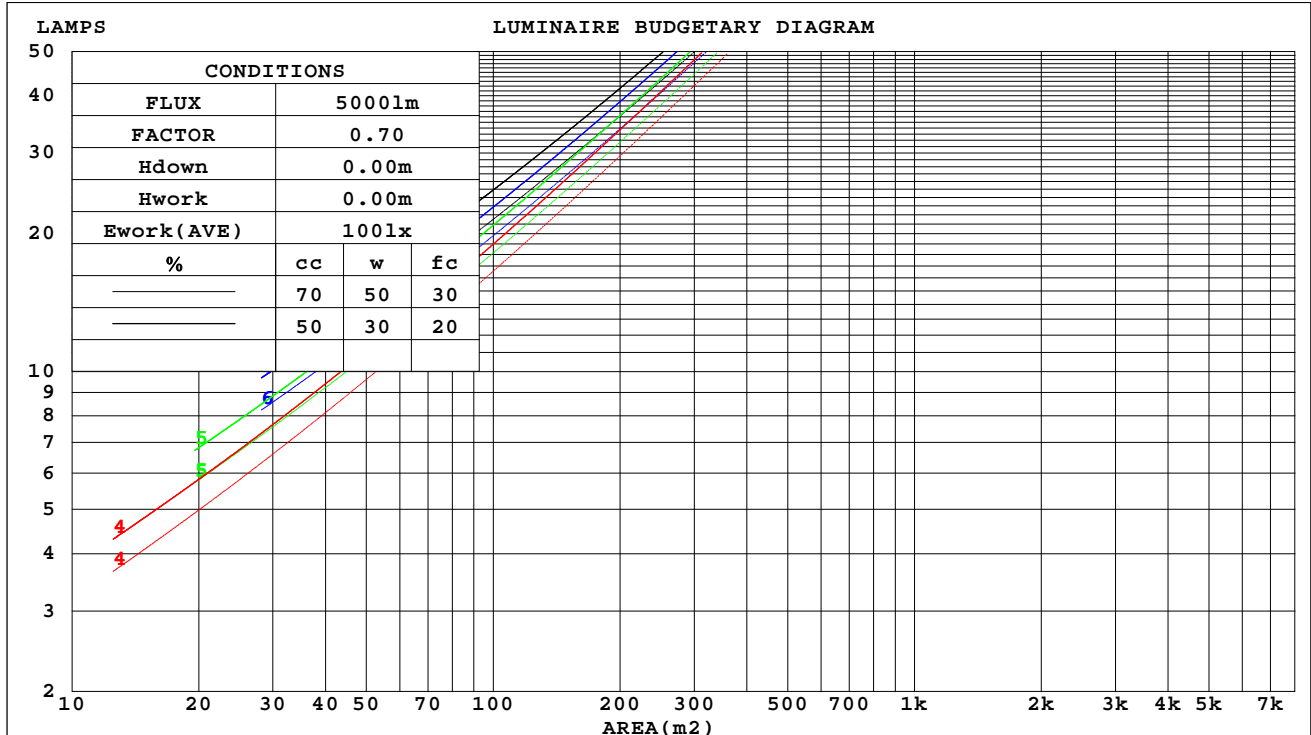
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2412261528
MFR.: RISE	SUR.: 0.00291m2	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.: 2412261528
MFR.: RISE	SUR.: 0.00291m2	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	.042	.024	.008	.041	.023	.007	.038	.022	.007	.036	.021	.007	.033	.019	.006	
2.0	.041	.023	.007	.040	.022	.007	.038	.021	.007	.036	.020	.006	.034	.019	.006	
3.0	.039	.021	.006	.038	.021	.006	.036	.020	.006	.035	.019	.006	.033	.018	.006	
4.0	.038	.020	.006	.037	.019	.006	.035	.019	.006	.033	.018	.005	.032	.017	.005	
5.0	.036	.018	.005	.035	.018	.005	.034	.017	.005	.032	.017	.005	.031	.016	.005	
6.0	.034	.017	.005	.033	.017	.005	.032	.016	.005	.031	.016	.005	.030	.016	.005	
7.0	.032	.016	.005	.032	.016	.005	.031	.015	.004	.029	.015	.004	.028	.015	.004	
8.0	.031	.015	.004	.030	.015	.004	.029	.015	.004	.028	.014	.004	.027	.014	.004	
9.0	.029	.014	.004	.029	.014	.004	.028	.014	.004	.027	.014	.004	.026	.013	.004	
10.0	.028	.013	.004	.028	.013	.004	.027	.013	.004	.026	.013	.004	.025	.013	.004	

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	.039	.039	.039	.033	.033	.033	.023	.023	.023	.013	.013	.013	.004	.004	.004	
1.0	.035	.032	.029	.030	.028	.025	.021	.019	.017	.012	.011	.010	.004	.004	.003	
2.0	.033	.027	.022	.028	.023	.019	.019	.016	.013	.011	.009	.008	.004	.003	.003	
3.0	.031	.023	.017	.026	.020	.015	.018	.014	.011	.010	.008	.006	.003	.003	.002	
4.0	.029	.020	.014	.025	.018	.012	.017	.012	.009	.010	.007	.005	.003	.002	.002	
5.0	.027	.018	.011	.023	.016	.010	.016	.011	.007	.009	.006	.004	.003	.002	.001	
6.0	.026	.016	.009	.022	.014	.008	.015	.010	.006	.009	.006	.003	.003	.002	.001	
7.0	.025	.015	.008	.021	.013	.007	.015	.009	.005	.008	.005	.003	.003	.002	.001	
8.0	.023	.014	.007	.020	.012	.006	.014	.008	.004	.008	.005	.003	.003	.002	.001	
9.0	.022	.013	.006	.019	.011	.005	.013	.008	.004	.008	.005	.002	.003	.001	.001	
10.0	.021	.012	.005	.018	.010	.005	.013	.007	.003	.007	.004	.002	.002	.001	.001	

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UGR(Unified Glare Rating) Table

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NAME: OZ48-P2HL-3					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2412261528		
MFR.: RISE					SUR.: 0.00291m2			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	21.1	22.2	21.3	22.4	22.6	18.3	19.5	18.6	19.7	19.8
3H	20.9	22.0	21.2	22.2	22.4	18.2	19.2	18.4	19.4	19.6
4H	20.8	21.8	21.1	22.0	22.3	18.1	19.1	18.4	19.3	19.5
6H	20.7	21.7	21.0	21.9	22.2	18.0	18.9	18.3	19.2	19.4
8H	20.7	21.6	21.0	21.8	22.1	18.0	18.8	18.3	19.1	19.4
12H	20.6	21.5	21.0	21.8	22.1	17.9	18.8	18.2	19.0	19.3
4H 2H	20.9	21.9	21.2	22.1	22.3	18.3	19.2	18.5	19.5	19.7
3H	20.7	21.6	21.0	21.8	22.1	18.1	18.9	18.4	19.2	19.5
4H	20.6	21.4	21.0	21.7	22.0	18.0	18.8	18.4	19.1	19.4
6H	20.5	21.2	20.9	21.5	21.9	17.9	18.6	18.3	18.9	19.3
8H	20.5	21.1	20.9	21.4	21.8	17.9	18.5	18.3	18.9	19.2
12H	20.4	21.0	20.8	21.4	21.8	17.8	18.4	18.2	18.8	19.2
8H 4H	20.5	21.1	20.9	21.4	21.8	17.9	18.5	18.3	18.8	19.2
6H	20.4	20.9	20.8	21.3	21.7	17.8	18.3	18.2	18.7	19.1
8H	20.3	20.8	20.8	21.2	21.6	17.7	18.2	18.2	18.6	19.0
12H	20.3	20.7	20.8	21.1	21.6	17.7	18.1	18.2	18.5	19.0
12H 4H	20.4	21.0	20.8	21.4	21.8	17.8	18.4	18.2	18.8	19.2
6H	20.3	20.8	20.8	21.2	21.6	17.7	18.2	18.2	18.6	19.0
8H	20.3	20.7	20.8	21.1	21.6	17.7	18.1	18.2	18.5	19.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.5 / - 2.6					+ 2.2 / - 6.0				
1.5H	+ 1.4 / - 2.6					+ 1.8 / - 2.9				
2.0H	+ 4.0 / -10.6					+ 4.2 / -10.4				

CIE Pub.117, 823.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.7)
Area: 0.00291 m2

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UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.: 0.00291m2	Shielding Angle:

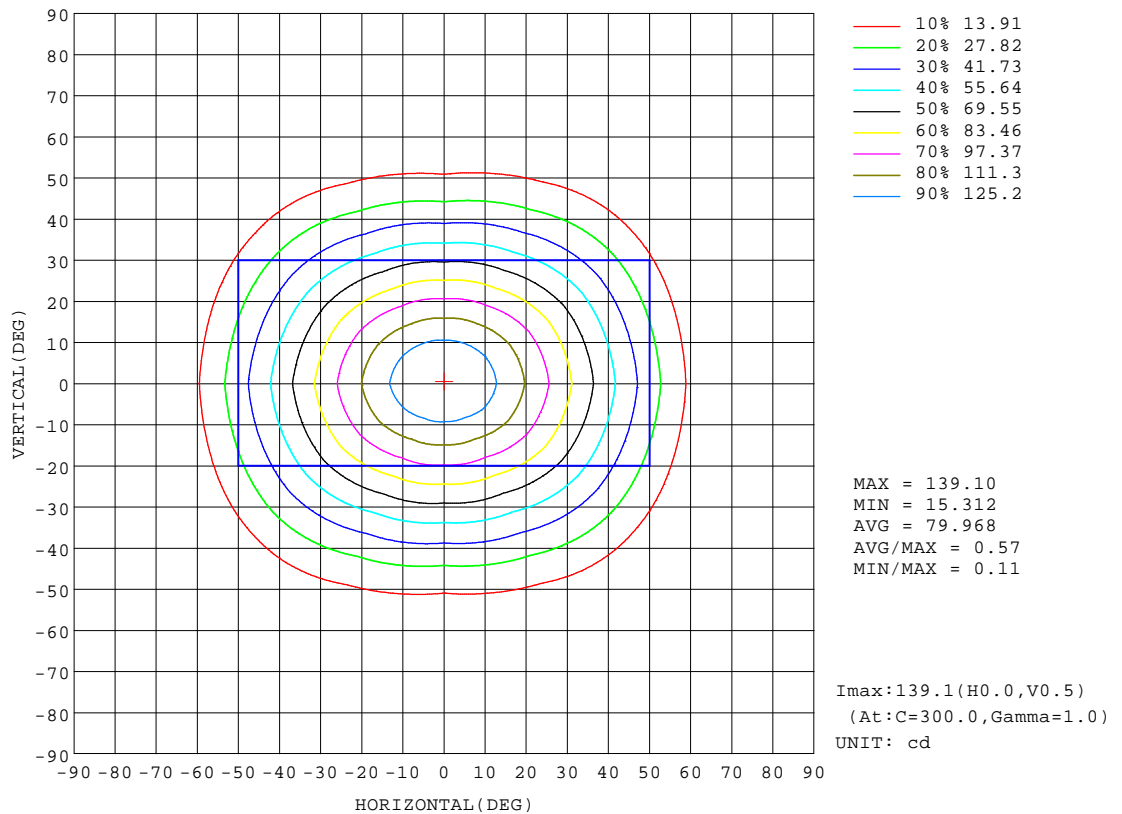
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	15	14	13	15	14	13	15	13	12	12
0.80	17	16	15	17	16	15	17	15	14	13
1.00	19	17	16	19	17	16	18	17	16	15
1.25	20	18	18	20	18	17	19	18	17	16
1.50	21	19	18	20	19	18	20	19	18	17
2.00	22	20	20	21	20	19	21	20	19	18
2.50	22	21	20	22	21	20	21	20	20	18
3.00	22	22	21	22	21	21	21	21	20	19
4.00	23	22	22	22	22	21	22	21	21	19
5.00	23	23	22	23	22	22	22	21	21	19
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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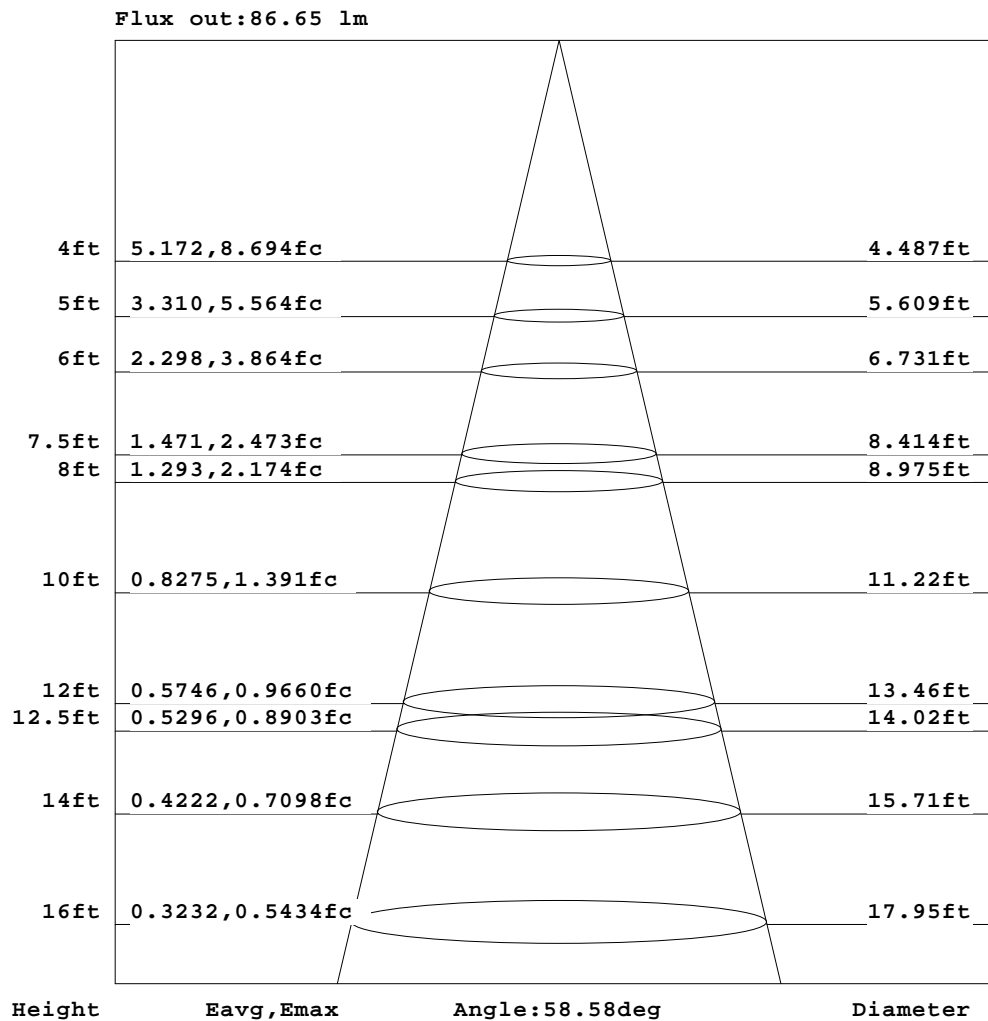


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AAI Figure

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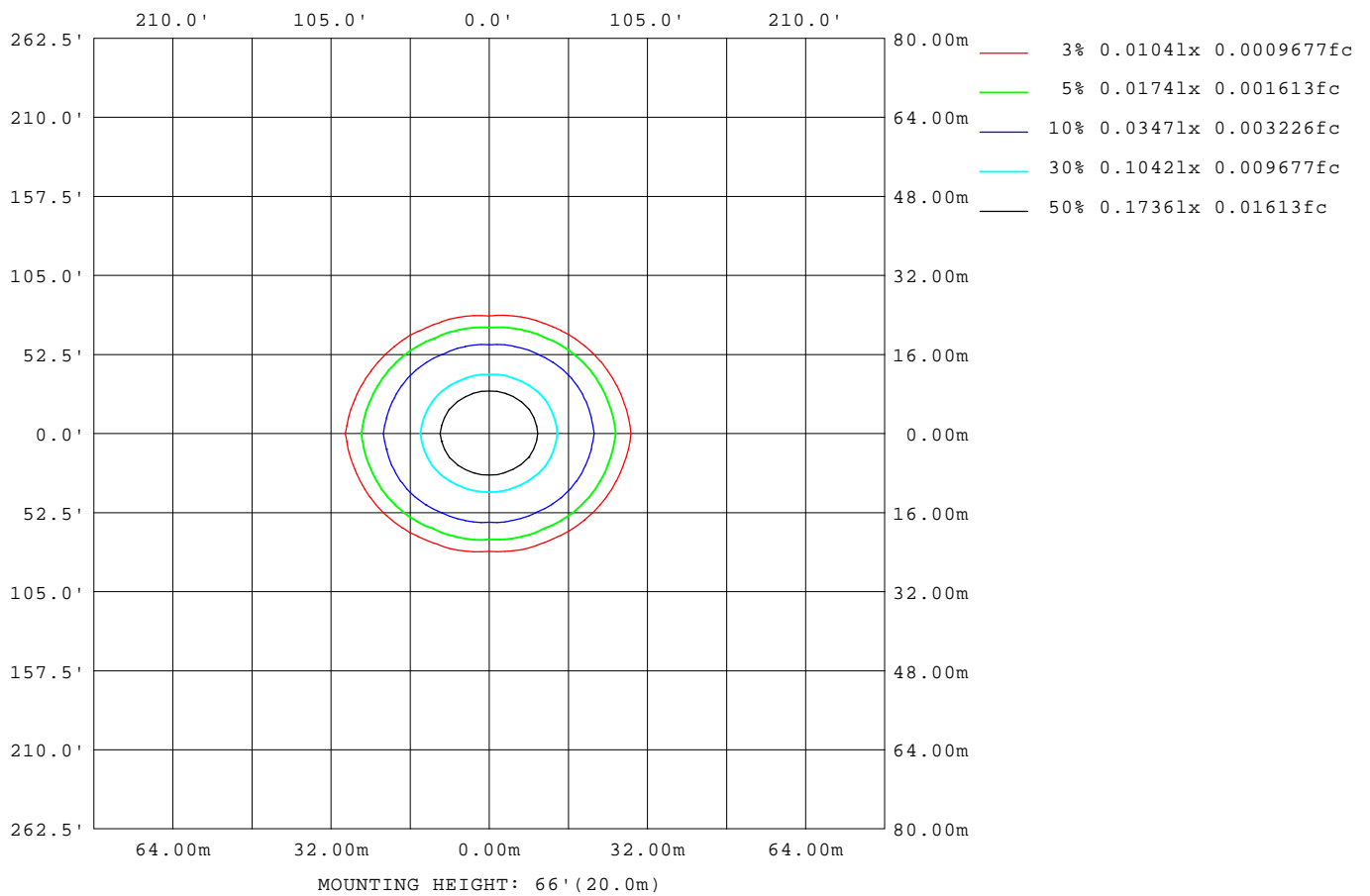
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2412261528
MFR.: RISE	SUR.: 0.00291m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-12-26

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:HL-A-2835D90W-2-S1-08L-HR5 Ra:90
DIFFUSER:PL-0101A+PM-0144A+NH-1257
NOT DRIVER:48V
30minutes warm-up

LED Avg.L Report

Test:U:47.997V I:0.1115A P:5.3517W PF:1.0000 Freq:0Hz Lamp Flux:823.228x1 lm		
NAME: OZ48-P2HL-3	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412261528
MFR.: RISE	SUR.: 0.00291m2	Shielding Angle:

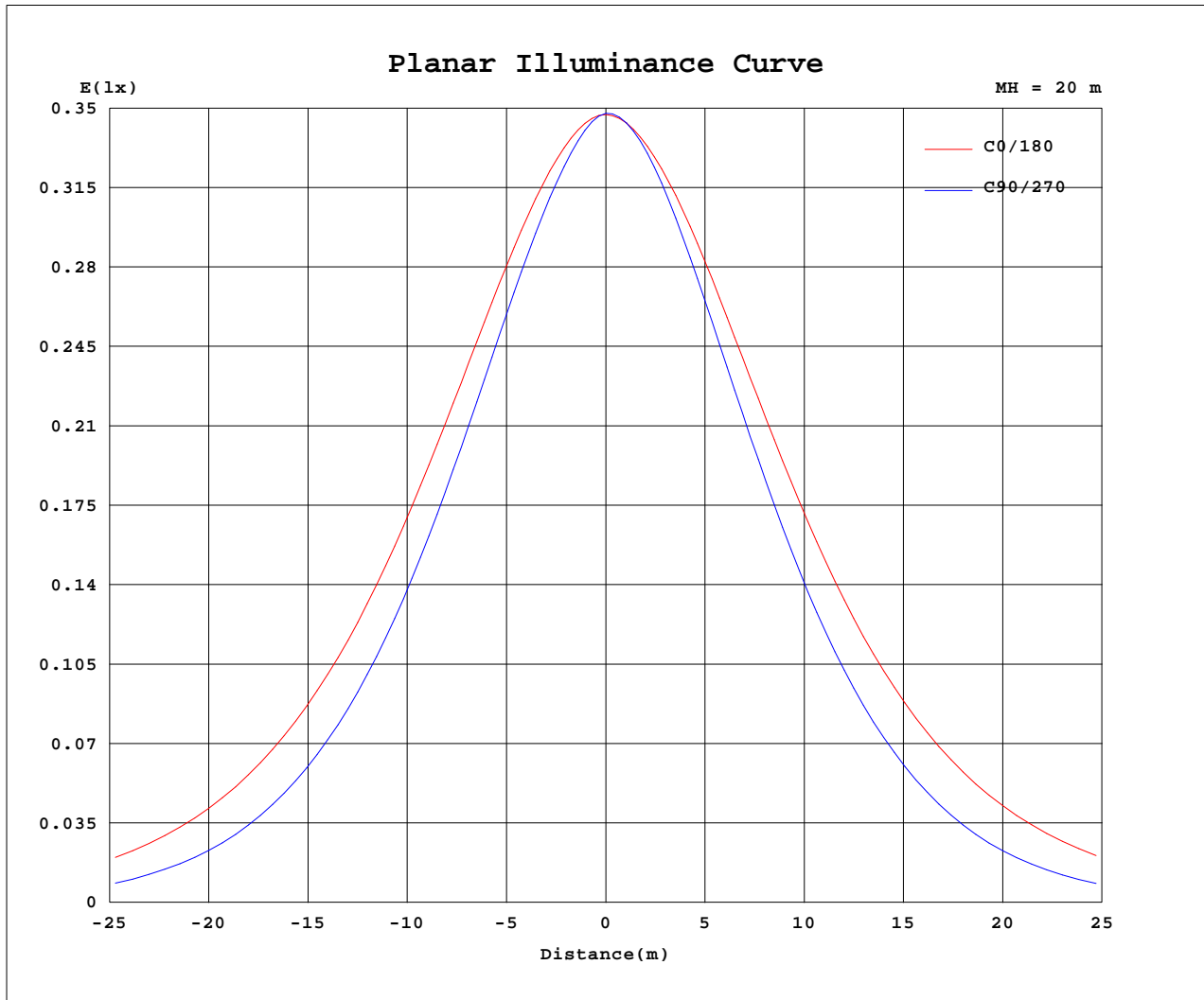
AvgL	cd/m2
L_0~180(65)av	2550
L_0~180(75)av	490
L_0~180(85)av	77
L_90~270(65)av	1149
L_90~270(75)av	557
L_90~270(85)av	336
L_45(65)av	1166
L_45(75)av	467
L_45(85)av	191

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-12-26

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:HL-A-2835D90W-2-S1-08L-HR5 Ra:90
DIFFUSER:PL-0101A+PM-0144A+NH-1257
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: 2024-12-26

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: HL-A-2835D90W-2-S1-08L-HR5 Ra:90
 DIFFUSER: PL-0101A+PM-0144A+NH-1257
 NOT DRIVER: 48V
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:47.997V I:0.1115A P:5.3517W PF:1.0000 Freq:0Hz Lamp Flux:823.228x1 lm		
NAME: OZ48-P2HL-3	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2412261528
MFR.: RISE	SUR.: 0.00291m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	139	139	139	139	139	139	139	139	139	139	139	139						
5	136	136	134	134	134	135	137	136	136	136	136	136						
10	130	128	124	123	125	128	131	129	127	126	127	129						
15	121	118	112	111	113	118	122	119	115	114	115	119						
20	111	106	98.7	96.7	99.3	107	112	108	101	99.0	102	108						
25	98.9	93.5	84.3	81.7	84.9	94.3	99.9	94.7	86.5	83.6	87.1	94.9						
30	86.3	80.0	69.7	66.8	70.4	81.0	87.3	81.1	71.5	68.1	72.2	81.4						
35	73.3	66.4	55.6	52.2	56.3	67.5	74.4	67.1	56.8	52.9	57.6	67.7						
40	60.2	52.8	42.2	38.5	42.9	54.0	61.3	53.3	42.8	38.6	43.7	54.0						
45	47.1	39.6	29.9	26.0	30.5	41.0	48.4	40.1	30.0	25.9	31.0	40.7						
50	34.5	27.2	18.9	15.6	19.5	28.5	35.8	27.5	19.0	15.4	19.9	28.0						
55	22.5	15.7	10.1	8.13	10.5	17.1	23.9	16.0	10.1	7.89	10.8	16.3						
60	11.5	6.57	3.75	3.44	4.00	7.54	12.9	7.17	3.73	3.22	4.07	7.44						
65	2.41	1.58	1.10	1.31	1.03	1.86	3.86	1.97	1.36	1.51	1.28	2.05						
70	0.62	0.63	0.62	0.73	0.58	0.60	0.77	0.79	0.84	0.92	0.78	0.73						
75	0.34	0.32	0.33	0.38	0.31	0.28	0.40	0.39	0.44	0.46	0.42	0.36						
80	0.11	0.11	0.14	0.17	0.15	0.11	0.16	0.14	0.17	0.16	0.15	0.10						
85	0.01	0.03	0.07	0.10	0.07	0.04	0.03	0.03	0.06	0.07	0.06	0.03						
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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