

Luminaire Photograph



Light Output Ratio:	56.3%	
Luminaire Power:	15.91 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.10	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2025-10-8

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: NF2W757GRT-V4 Ra: 90
REFLECTOR: MR-1066 120R
NOT DRIVER: 48V
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

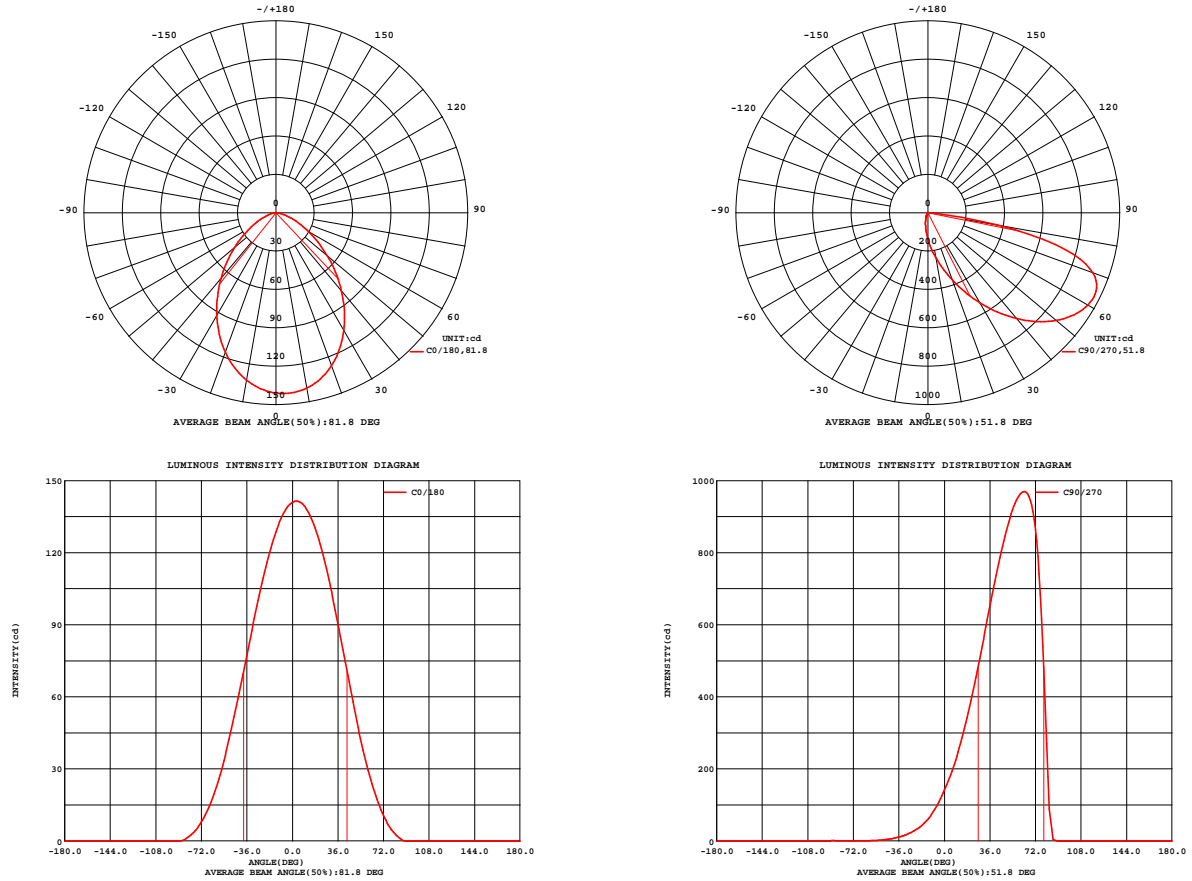


Fig. C0/C180

Fig. C90/C270

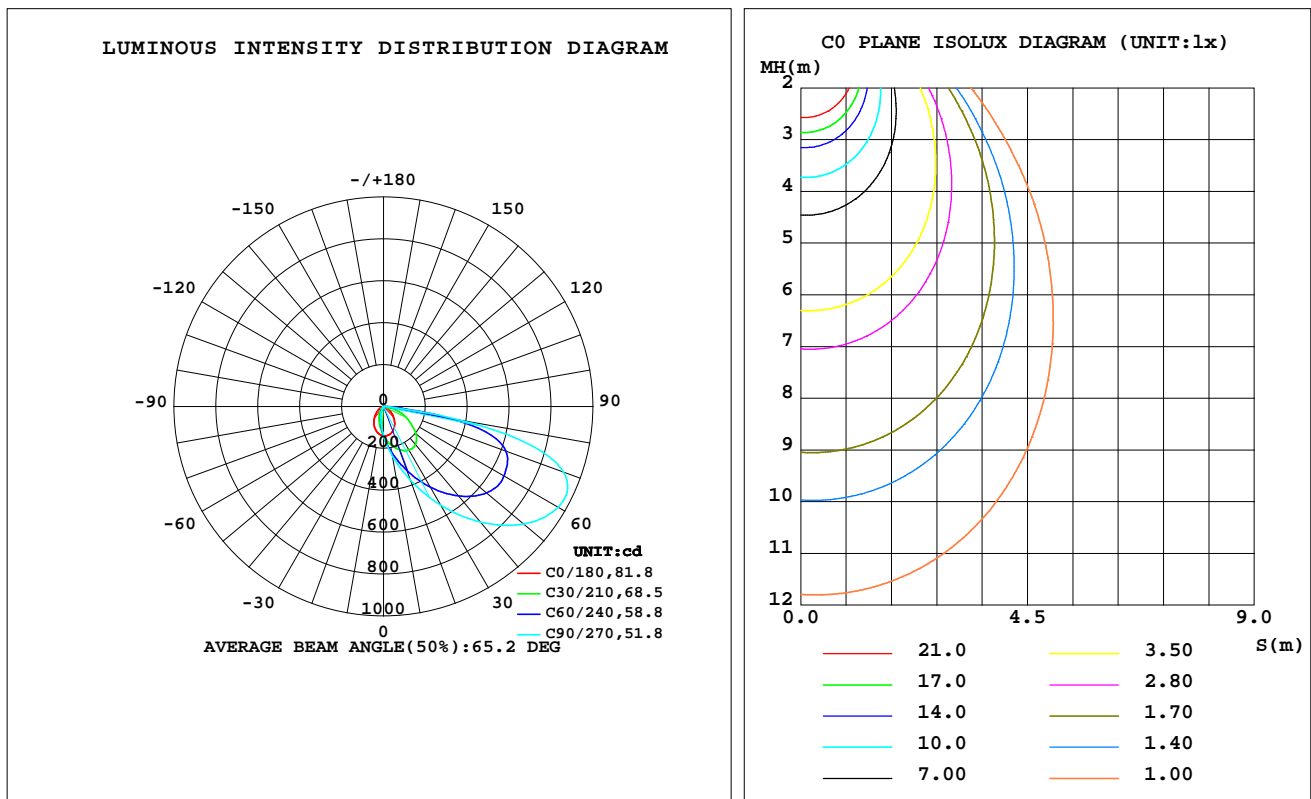
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:47.997V I:0.3314A P:15.906W PF:1.0000 Freq:59.98Hz Lamp Flux:1707.95x1 lm		
NAME: OZ48-WF-16	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2510080765
MFR.: RISE	SUR.: 0.004199m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 60.44 lm/W			
MODEL	NICHIA	I _{max} (cd)	969.7	S/MH(C0/180)	1.02
NOMINAL POWER(W)	16	LOR(%)	56.3	S/MH(C90/270)	0.36
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	961.44	UP,DN(C0-180)	0.0,53.4
NOMINAL FLUX(lm)	1707.95	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,2.9
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	48	down(%)	56.3	CIBSE SHR MAX	0.10



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	139.1	201.4	236.0	195.9	132.8	88.09	73.87	91.55	0- 10	13.59	13.59	1.41,0.80
20	127.2	272.0	372.5	258.1	116.0	52.40	36.90	56.62	10- 20	43.32	56.91	5.92,3.33
30	106.2	343.3	541.5	316.7	92.64	29.48	17.65	33.11	20- 30	80.00	136.9	14.2,8.02
40	79.70	399.0	720.0	354.3	66.75	15.01	7.517	17.82	30- 40	122.4	259.3	27,15.2
50	52.42	424.3	873.2	351.6	42.29	6.273	2.522	8.200	40- 50	162.5	421.8	43.9,24.7
60	29.41	406.4	962.4	299.0	22.48	1.900	0.3596	2.833	50- 60	187.7	609.5	63.4,35.7
70	13.04	357.2	914.4	199.2	9.532	0.2526	0.0487	0.4840	60- 70	189.4	798.9	83.1,46.8
80	3.674	170.2	361.0	88.07	2.604	0.1891	0.2940	0.1672	70- 80	141.1	940.0	97.8,55
90	0	0	0	0	0	0	0	0	80- 90	21.41	961.4	100,56.3
100	0	0	0	0	0	0	0	0	90-100	0	961.4	100,56.3
110	0	0	0	0	0	0	0	0	100-110	0	961.4	100,56.3
120	0	0	0	0	0	0	0	0	110-120	0	961.4	100,56.3
130	0	0	0	0	0	0	0	0	120-130	0	961.4	100,56.3
140	0	0	0	0	0	0	0	0	130-140	0	961.4	100,56.3
150	0	0	0	0	0	0	0	0	140-150	0	961.4	100,56.3
160	0	0	0	0	0	0	0	0	150-160	0	961.4	100,56.3
170	0	0	0	0	0	0	0	0	160-170	0	961.4	100,56.3
180	0	0	0	0	0	0	0	0	170-180	0	961.4	100,56.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

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Lamp Flux:1707.95x1 lm

NAME: OZ48-WF-16

TYPE:

WEIGHT:

SPEC.: 3000K

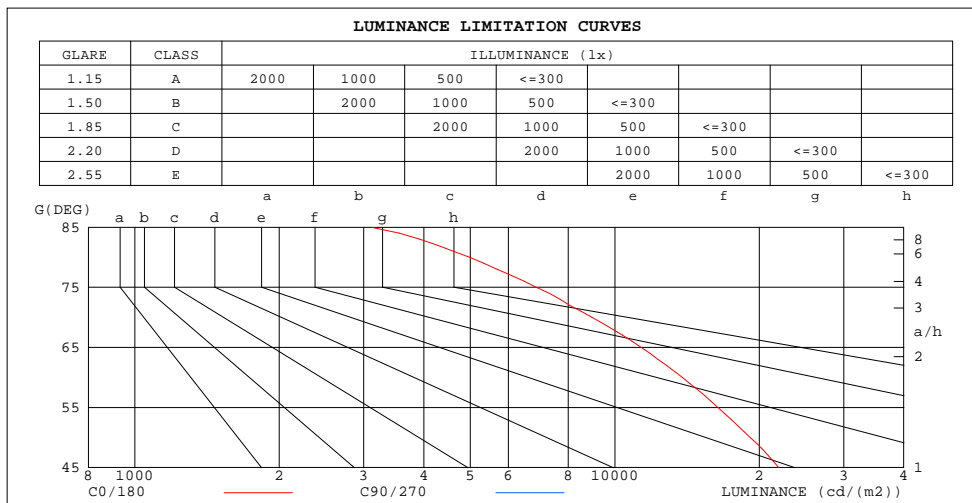
DIM.:

SERIAL No.: 2510080765

MFR.: RISE

SUR.: 0.004199m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	3114	88712
80	4973	494528
75	6857	681050
70	8959	635940
65	11347	544281
60	13826	457827
55	16400	384943
50	19167	323124
45	21971	269798

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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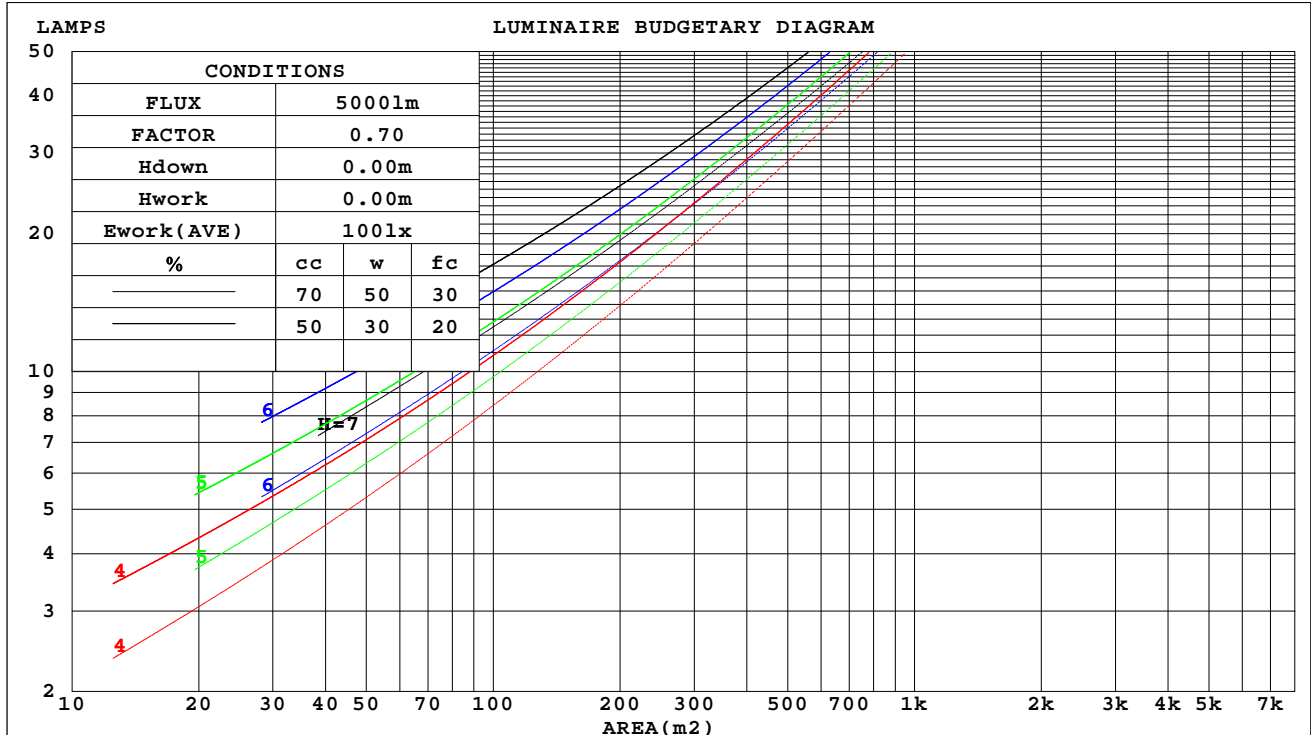
SERIAL No.: 2510080765

MFR.: RISE

SUR.: 0.004199m2

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.: 2510080765
MFR.: RISE	SUR.: 0.004199m2	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	.214	.122	.039	.210	.120	.038	.202	.116	.037	.195	.113	.036	.189	.109	.035	
2.0	.199	.109	.034	.196	.108	.033	.189	.105	.033	.182	.102	.032	.177	.100	.031	
3.0	.181	.096	.029	.178	.095	.029	.172	.093	.028	.166	.091	.028	.161	.089	.028	
4.0	.164	.085	.025	.161	.084	.025	.156	.083	.025	.151	.081	.024	.146	.079	.024	
5.0	.149	.076	.022	.147	.075	.022	.142	.074	.022	.137	.073	.022	.133	.071	.021	
6.0	.137	.069	.020	.134	.068	.020	.130	.067	.019	.126	.065	.019	.122	.064	.019	
7.0	.126	.062	.018	.124	.062	.018	.120	.061	.017	.116	.060	.017	.113	.059	.017	
8.0	.116	.057	.016	.114	.056	.016	.111	.055	.016	.108	.055	.016	.105	.054	.016	
9.0	.108	.052	.015	.106	.052	.015	.103	.051	.014	.100	.050	.014	.098	.050	.014	
10.0	.101	.048	.013	.099	.048	.013	.097	.047	.013	.094	.047	.013	.091	.046	.013	

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	.107	.107	.107	.092	.092	.092	.063	.063	.063	.036	.036	.036	.011	.011	.011	
1.0	.104	.088	.072	.089	.075	.062	.061	.052	.043	.035	.030	.025	.011	.010	.008	
2.0	.102	.074	.051	.087	.064	.044	.060	.044	.031	.034	.026	.018	.011	.008	.006	
3.0	.098	.065	.038	.084	.056	.033	.058	.039	.023	.033	.023	.014	.011	.007	.004	
4.0	.094	.057	.029	.081	.050	.025	.056	.035	.018	.032	.020	.011	.010	.007	.003	
5.0	.090	.052	.024	.077	.045	.021	.053	.031	.014	.031	.018	.009	.010	.006	.003	
6.0	.086	.047	.020	.074	.041	.017	.051	.029	.012	.029	.017	.007	.010	.006	.002	
7.0	.081	.043	.017	.070	.038	.015	.048	.026	.010	.028	.016	.006	.009	.005	.002	
8.0	.077	.040	.015	.067	.035	.013	.046	.024	.009	.027	.014	.005	.009	.005	.002	
9.0	.074	.037	.013	.063	.032	.011	.044	.023	.008	.026	.013	.005	.008	.004	.002	
10.0	.070	.035	.012	.060	.030	.010	.042	.021	.007	.024	.013	.004	.008	.004	.001	

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2510080765				
MFR.: RISE					SUR.: 0.004199m2			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		24.9	26.7	25.2	26.9	27.1	36.6	38.4	36.9	38.6	38.8	
		3H	25.3	26.9	25.6	27.2	27.4	40.2	41.8	40.5	42.1	42.3
		4H	25.3	26.9	25.6	27.1	27.4	41.7	43.3	42.0	43.5	43.8
		6H	25.3	26.8	25.6	27.0	27.3	42.6	44.1	42.9	44.4	44.7
		8H	25.2	26.7	25.6	27.0	27.3	42.7	44.1	43.0	44.4	44.7
		12H	25.2	26.6	25.5	26.9	27.2	42.6	44.0	43.0	44.3	44.6
4H	2H	30.1	31.7	30.5	32.0	32.3	36.8	38.4	37.1	38.6	38.9	
	3H	30.6	32.0	30.9	32.3	32.6	40.7	42.1	41.1	42.4	42.7	
	4H	30.6	31.9	31.0	32.2	32.5	42.4	43.7	42.8	44.1	44.4	
	6H	30.5	31.7	30.9	32.0	32.4	43.5	44.7	43.9	45.0	45.4	
	8H	30.5	31.6	30.9	31.9	32.3	43.6	44.7	44.0	45.1	45.5	
	12H	30.5	31.4	30.9	31.8	32.3	43.6	44.6	44.0	45.0	45.4	
8H	4H	34.1	35.2	34.5	35.6	36.0	42.5	43.6	42.9	44.0	44.4	
	6H	34.2	35.1	34.6	35.5	35.9	43.8	44.7	44.2	45.1	45.5	
	8H	34.2	34.9	34.6	35.4	35.8	43.9	44.7	44.4	45.1	45.6	
	12H	34.1	34.8	34.6	35.3	35.7	43.9	44.6	44.4	45.1	45.5	
12H	4H	34.7	35.7	35.2	36.1	36.5	42.5	43.5	42.9	43.9	44.3	
	6H	34.9	35.7	35.4	36.1	36.6	43.7	44.5	44.2	45.0	45.4	
	8H	34.9	35.6	35.4	36.0	36.5	43.9	44.6	44.4	45.0	45.5	
Variations with the observer position at spacings(CIE Pub.117):												
S = 1.0H		+ 0.2 / - 0.2					+ 0.0 / - 0.0					
1.5H		+ 0.2 / - 0.3					+ 0.0 / - 0.0					
2.0H		+ 0.5 / - 0.5					+ 0.3 / - 0.3					

CIE Pub.117, 1708 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.9)
Area: 0.004199 m2

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UTILIZATION FACTORS TABLE

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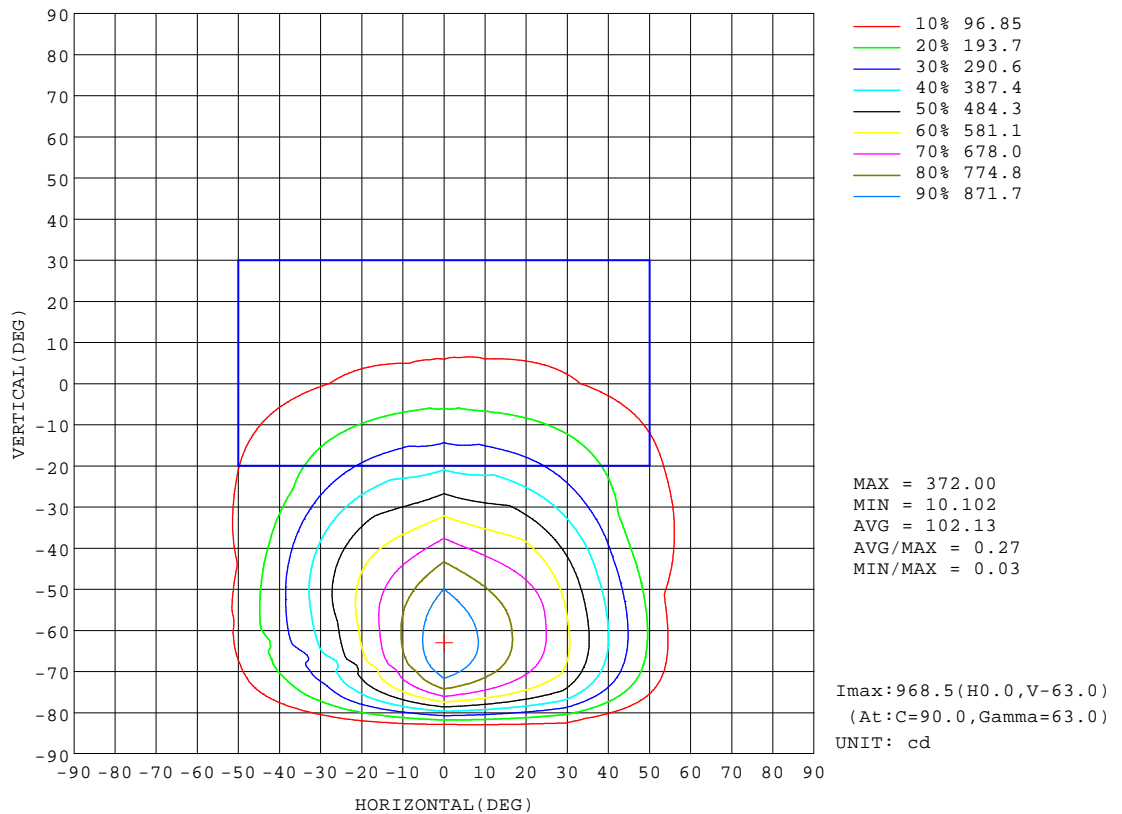
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	27	19	15	26	19	15	26	19	15	11
0.80	32	25	20	32	24	20	31	24	19	15
1.00	37	30	25	37	29	25	35	31	24	20
1.25	42	34	29	41	34	29	39	33	29	24
1.50	45	38	33	44	37	33	42	36	32	27
2.00	50	44	39	48	43	39	46	42	38	33
2.50	52	47	43	51	46	42	49	45	41	36
3.00	55	50	46	54	49	46	51	47	44	39
4.00	58	54	51	56	53	50	54	51	48	43
5.00	60	56	53	58	55	52	55	53	51	45
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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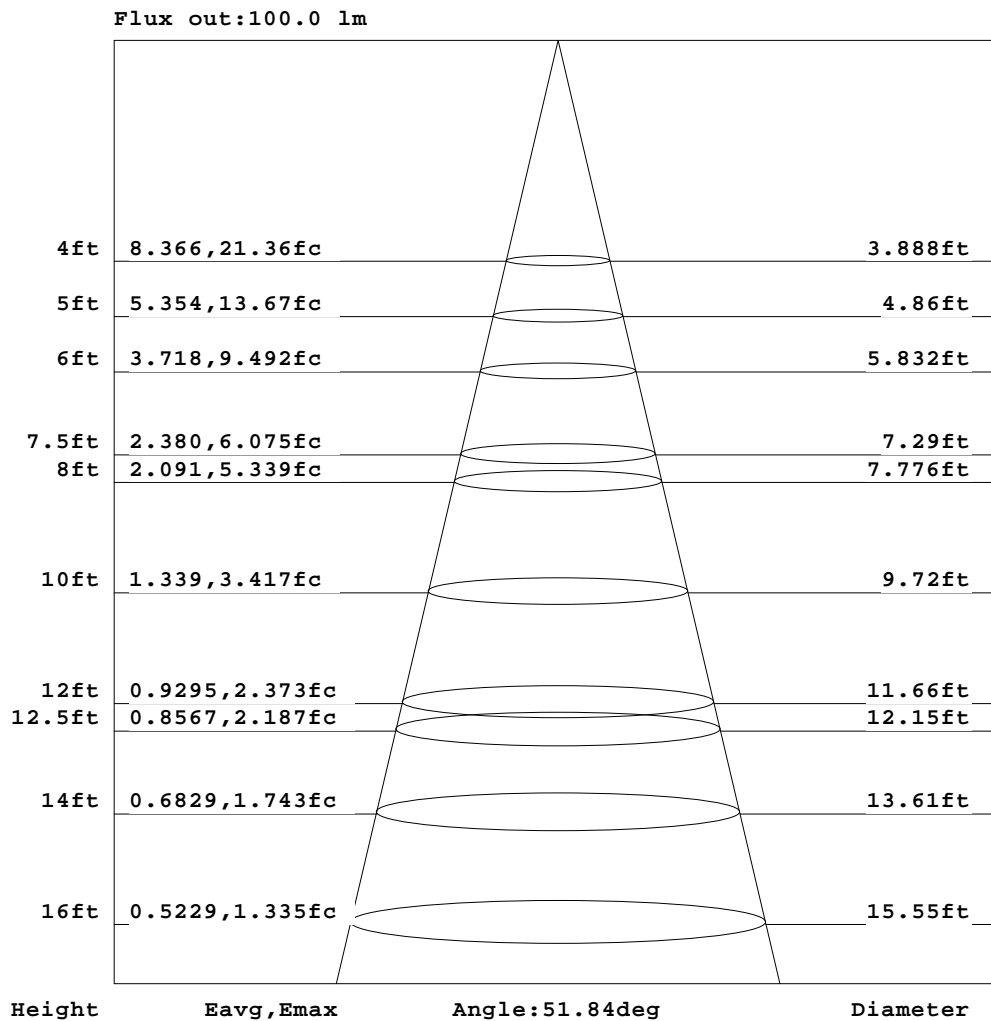


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AAI Figure

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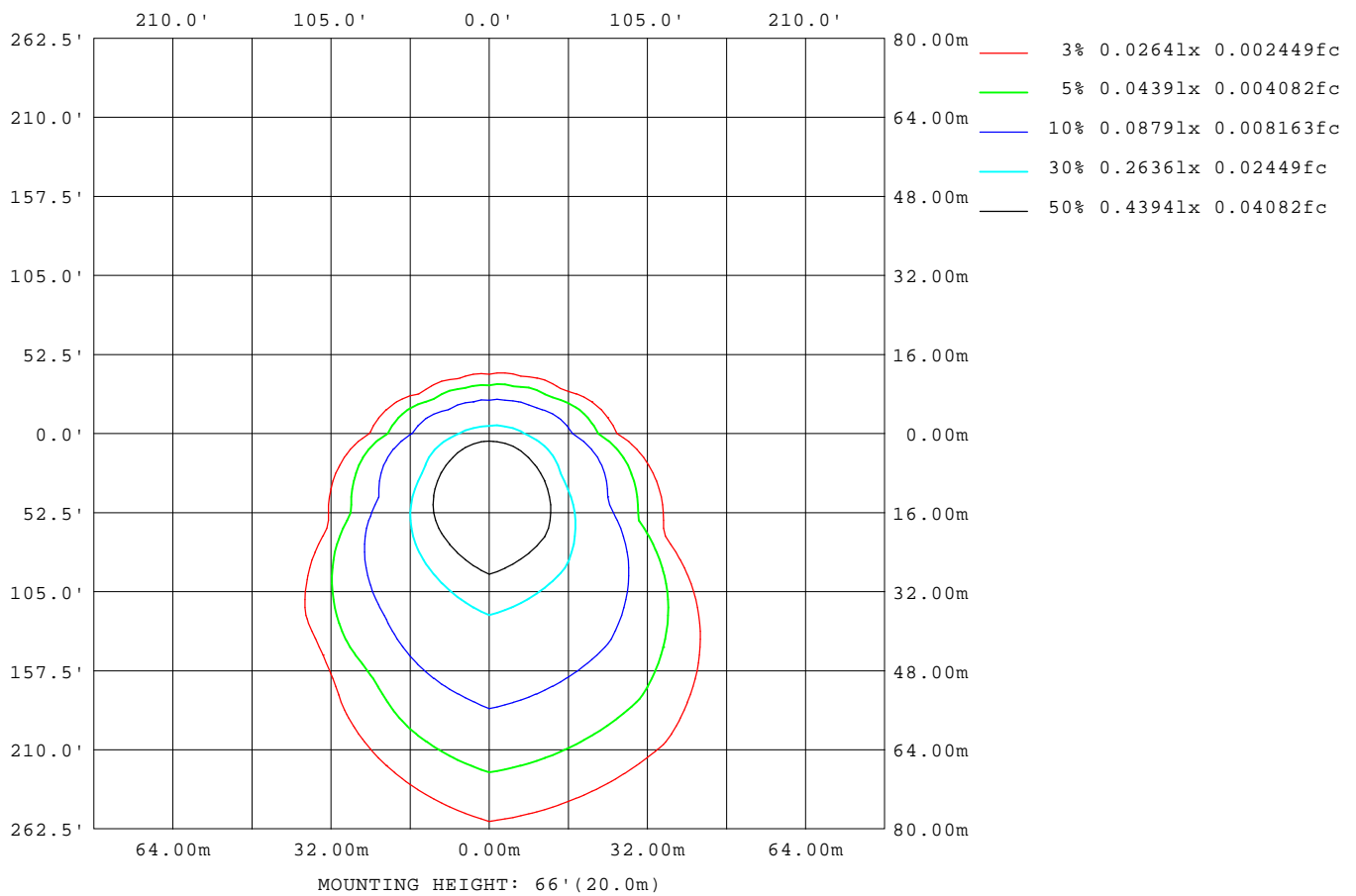
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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REFLECTOR: MR-1066 120R
NOT DRIVER: 48V
30minutes warm-up

LED Avg.L Report

Test:U:47.997V I:0.3314A P:15.906W PF:1.0000 Freq:59.98Hz Lamp Flux:1707.95x1 lm		
NAME: OZ48-WF-16	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2510080765
MFR.: RISE	SUR.: 0.004199m2	Shielding Angle:

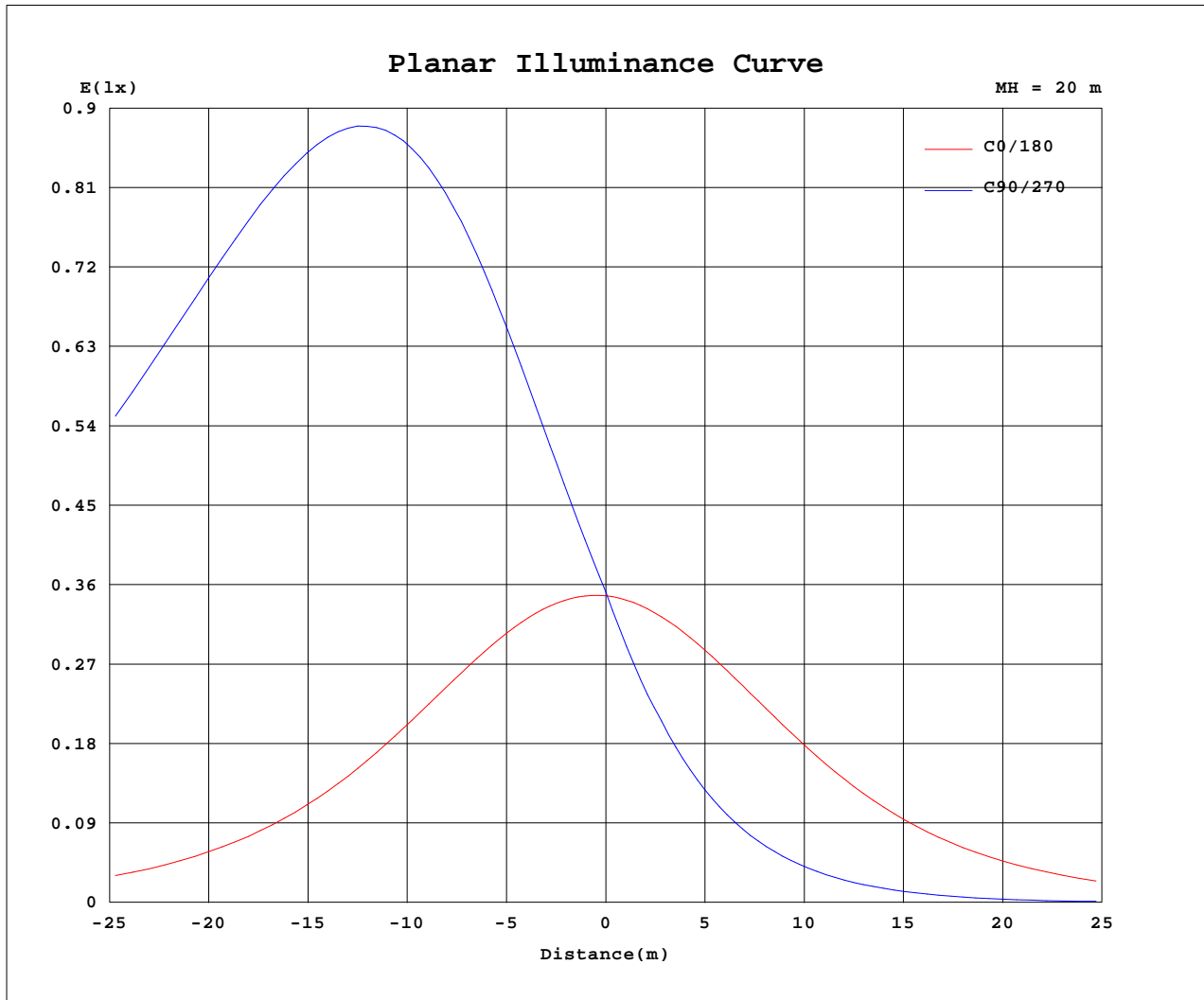
AvgL	cd/m2
L_0~180(65)av	10027
L_0~180(75)av	5977
L_0~180(85)av	2444
L_90~270(65)av	272516
L_90~270(75)av	340977
L_90~270(85)av	45397
L_45(65)av	85814
L_45(75)av	97896
L_45(85)av	34791

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-10-8

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:NF2W757GRT-V4 Ra:90
REFLECTOR:MR-1066 120R
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: 2025-10-8

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: NF2W757GRT-V4 Ra: 90
 REFLECTOR: MR-1066 120R
 NOT DRIVER: 48V
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:47.997V I:0.3314A P:15.906W PF:1.0000 Freq:59.98Hz Lamp Flux:1707.95x1 lm		
NAME: OZ48-WF-16	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2510080765
MFR.: RISE	SUR.: 0.004199m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	141	141	141	141	141	141	141	141	141	141	141	141						
5	141	162	178	184	176	159	138	118	106	103	108	121						
10	139	182	220	236	216	176	133	97.5	78.9	73.9	81.0	102						
15	134	202	269	299	262	191	125	79.4	57.7	52.4	60.0	85.0						
20	127	219	324	372	312	204	116	63.2	41.7	36.9	44.0	69.2						
25	118	232	383	454	365	213	105	49.5	29.9	25.8	32.0	55.3						
30	106	241	444	542	417	216	92.6	38.0	21.1	17.7	22.9	43.4						
35	93.3	243	503	632	466	212	79.7	28.5	14.4	11.8	15.9	33.3						
40	79.7	237	558	720	505	203	66.7	20.7	9.38	7.52	10.7	25.0						
45	66.1	224	605	802	531	186	54.2	14.5	5.71	4.48	6.74	18.1						
50	52.4	203	642	873	540	162	42.3	9.46	3.15	2.52	3.85	12.6						
55	40.0	171	664	928	528	133	31.5	5.61	1.58	1.47	1.96	8.10						
60	29.4	144	664	962	489	108	22.5	2.89	0.93	0.36	0.98	4.69						
65	20.4	118	652	967	443	83.0	15.2	1.21	0.07	0.14	0.12	2.29						
70	13.0	87.5	622	914	340	57.6	9.53	0.47	0.04	0.05	0.08	0.88						
75	7.55	56.3	533	741	293	34.7	5.44	0.10	0.08	0.07	0.08	0.28						
80	3.67	28.3	310	361	158	17.4	2.60	0.11	0.27	0.29	0.17	0.16						
85	1.15	7.61	65.0	32.5	18.0	5.91	0.63	0.15	0.60	0.72	0.35	0.16						
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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