

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P835752

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2HI-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835752
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-2HI-35-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

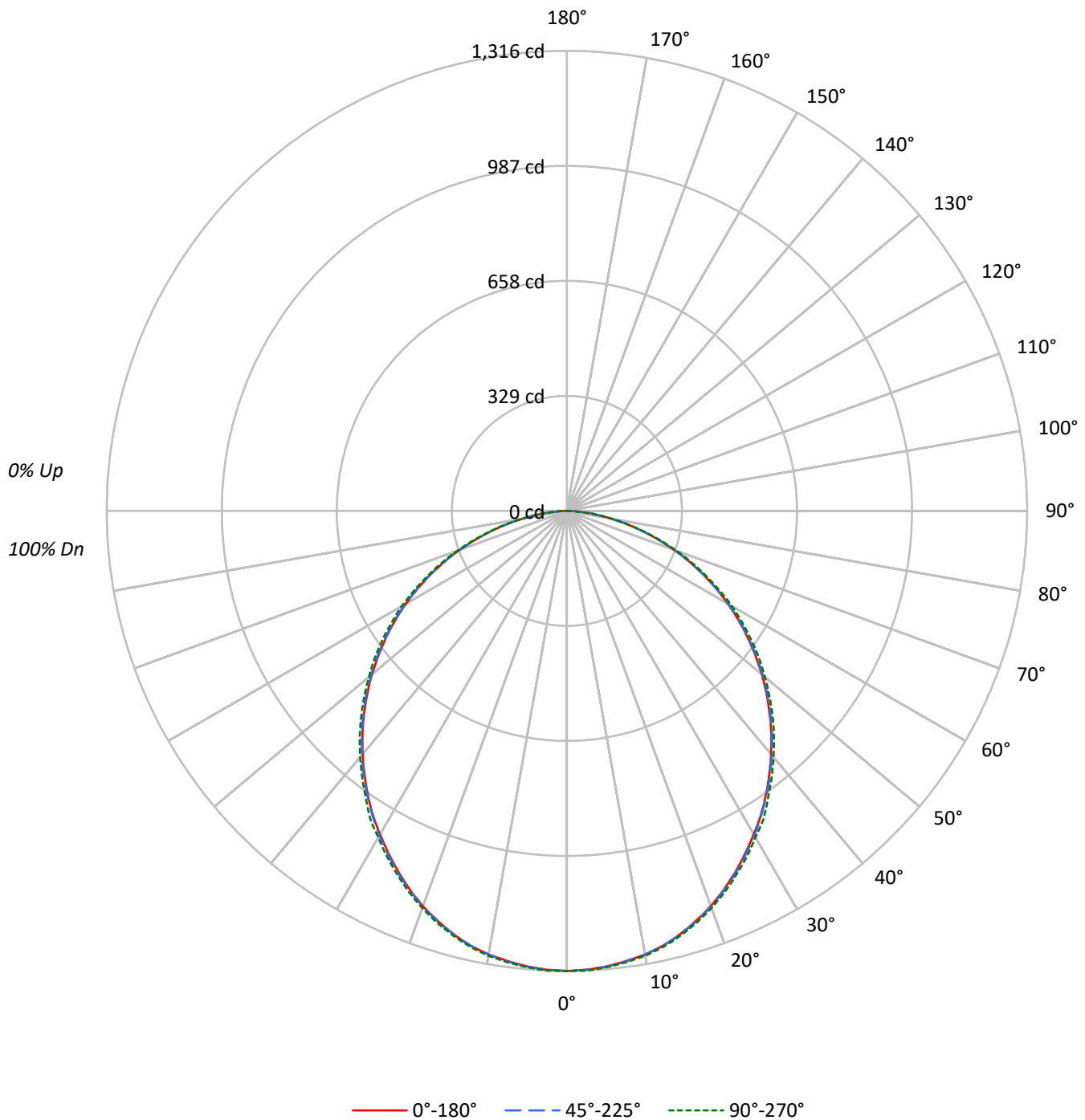
Lumens per Lamp: N/A
Luminaire Lumens: 3556.2 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3542	3542	3542
5°	3532	3535	3540
10°	3521	3522	3532
15°	3492	3494	3504
20°	3446	3450	3463
25°	3384	3392	3408
30°	3321	3332	3352
35°	3260	3268	3294
40°	3191	3202	3230
45°	3121	3135	3167
50°	3046	3059	3095
55°	2959	2974	3022
60°	2861	2873	2937
65°	2736	2745	2797
70°	2568	2570	2626
75°	2334	2326	2380
80°	2005	1998	2032
85°	1556	1531	1541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	3.5
10°-20°	353.8	9.9
20°-30°	526.6	14.8
30°-40°	622.8	17.5
40°-50°	635.8	17.9
50°-60°	567.4	16.0
60°-70°	427.4	12.0
70°-80°	238.3	6.7
80°-90°	59.7	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1004.8	28.3
0°-40°	1627.6	45.8
0°-60°	2830.8	79.6
0°-90°	3556.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3556.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1308	1310	1309	1309	1310	124
15°	1253	1255	1254	1255	1258	353
25°	1140	1141	1142	1146	1148	525
35°	992	991	995	999	1003	621
45°	820	820	824	828	832	633
55°	631	630	634	638	644	564
65°	430	428	431	435	439	425
75°	224	223	224	225	229	238
85°	50	49	50	49	50	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.1	1316.1	1316.1	1316.1	1316.1
2.5°	1313.9	1316.1	1313.4	1313.9	1316.4
5°	1307.6	1310.1	1308.7	1309.0	1310.4
7.5°	1298.9	1302.2	1300.3	1300.8	1302.2
10°	1288.6	1291.0	1288.8	1290.2	1292.6
12.5°	1273.8	1274.9	1273.8	1274.4	1277.1
15°	1253.4	1254.8	1254.2	1255.3	1257.8
17.5°	1229.4	1231.1	1230.8	1233.0	1234.9
20°	1203.5	1203.8	1204.9	1207.1	1209.3
22.5°	1173.0	1173.8	1174.9	1177.9	1180.1
25°	1139.8	1141.1	1142.5	1145.5	1147.7
27.5°	1104.6	1106.0	1107.9	1111.2	1114.7
30°	1068.7	1068.7	1072.2	1075.5	1078.8
32.5°	1032.4	1031.1	1034.3	1038.4	1046.3
35°	992.4	991.3	994.8	998.6	1002.7
37.5°	950.7	949.9	954.0	958.0	961.9
40°	908.5	907.4	911.4	915.5	919.6
42.5°	865.1	864.6	868.4	872.5	876.8
45°	820.2	819.9	823.7	827.8	832.2
47.5°	774.4	773.8	777.7	782.0	785.8
50°	727.5	727.0	730.8	735.2	739.2
52.5°	679.3	679.3	682.8	686.7	692.9
55°	630.8	630.0	633.8	638.1	644.1
57.5°	581.7	580.7	584.2	588.6	594.0
60°	531.6	530.5	533.8	538.1	545.8
62.5°	480.9	479.3	482.6	486.7	491.3
65°	429.7	428.1	431.1	434.9	439.2
67.5°	378.2	376.3	379.3	382.6	386.7
70°	326.4	324.5	326.7	330.0	333.8
72.5°	274.9	273.0	274.9	276.3	280.9
75°	224.5	222.6	223.7	224.8	228.9
77.5°	175.5	173.6	175.8	176.3	178.7
80°	129.4	127.5	128.9	129.2	131.1
82.5°	87.5	85.8	87.7	86.4	88.0
85°	50.4	49.0	49.6	49.0	49.9
87.5°	19.9	18.8	19.1	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)