

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: P835641

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1HI-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835641
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-LD4-1HI-35-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

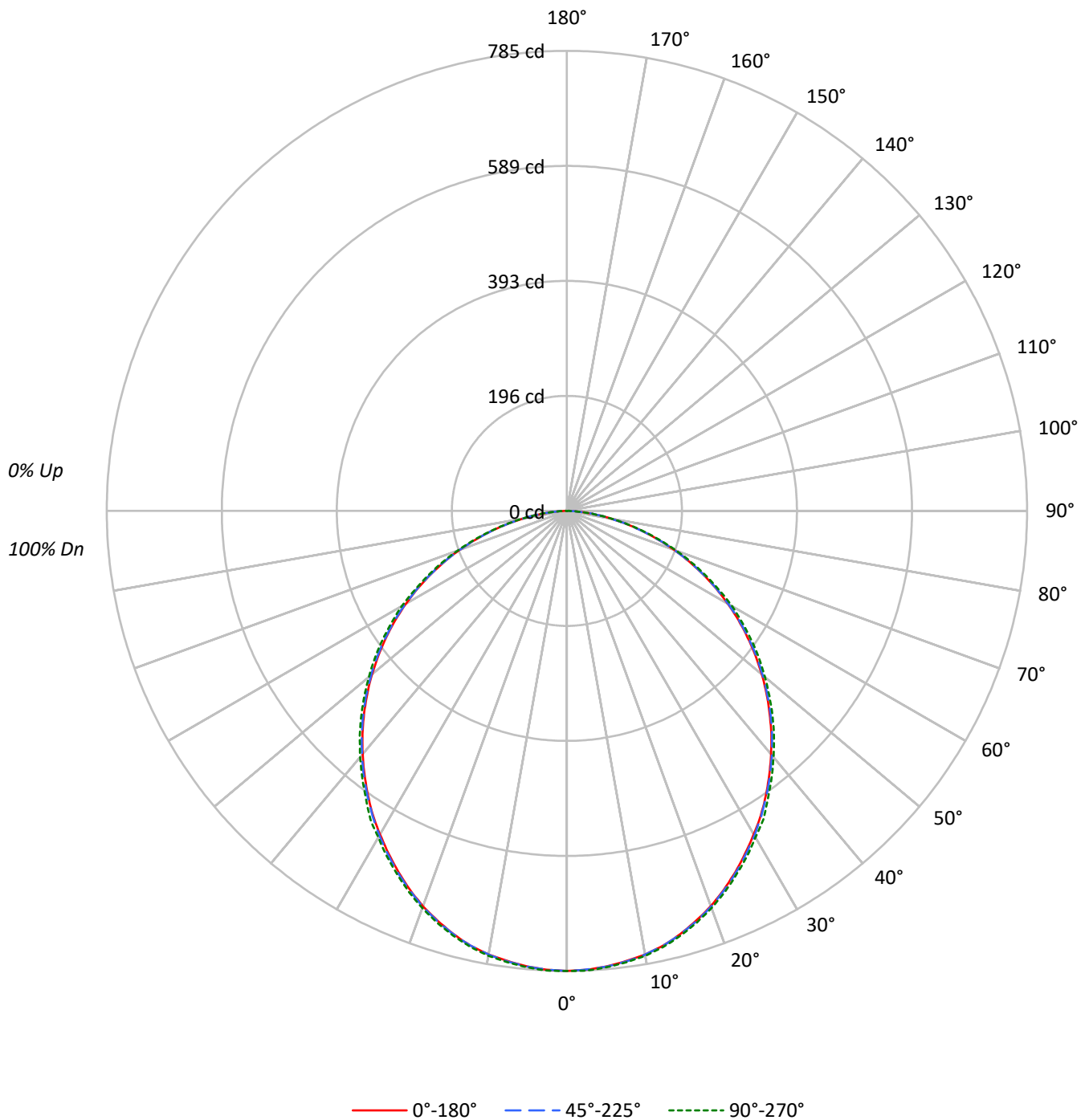
Lumens per Lamp: N/A
Luminaire Lumens: 2121.3 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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	100		
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2112	2112	2112
5°	2107	2109	2111
10°	2100	2101	2107
15°	2083	2084	2090
20°	2056	2058	2066
25°	2019	2023	2033
30°	1981	1987	2000
35°	1944	1949	1965
40°	1904	1910	1927
45°	1862	1870	1889
50°	1817	1825	1846
55°	1765	1774	1803
60°	1707	1714	1752
65°	1632	1637	1668
70°	1532	1533	1566
75°	1392	1387	1419
80°	1196	1192	1212
85°	929	914	917

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	3.5
10°-20°	211.0	9.9
20°-30°	314.1	14.8
30°-40°	371.5	17.5
40°-50°	379.2	17.9
50°-60°	338.5	16.0
60°-70°	254.9	12.0
70°-80°	142.2	6.7
80°-90°	35.6	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°	599.3	28.3
0°-40°	970.8	45.8
0°-60°	1688.6	79.6
0°-90°	2121.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2121.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	785	785	785	785	785	
5°	780	782	781	781	782	74
15°	748	748	748	749	750	211
25°	680	681	682	683	685	313
35°	592	591	593	596	598	370
45°	489	489	491	494	496	377
55°	376	376	378	381	384	336
65°	256	255	257	259	262	254
75°	134	133	133	134	136	142
85°	30	29	30	29	30	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	785.0	785.0	785.0	785.0	785.0
2.5°	783.7	785.0	783.4	783.7	785.2
5°	780.0	781.5	780.6	780.8	781.6
7.5°	774.8	776.7	775.6	775.9	776.7
10°	768.6	770.1	768.8	769.6	771.1
12.5°	759.8	760.5	759.8	760.2	761.8
15°	747.6	748.5	748.1	748.8	750.3
17.5°	733.3	734.3	734.2	735.5	736.6
20°	717.9	718.1	718.7	720.0	721.3
22.5°	699.7	700.2	700.8	702.6	703.9
25°	679.9	680.7	681.5	683.3	684.6
27.5°	658.9	659.7	660.9	662.8	664.9
30°	637.5	637.5	639.6	641.5	643.5
32.5°	615.8	615.0	617.0	619.4	624.1
35°	591.9	591.3	593.4	595.7	598.1
37.5°	567.1	566.6	569.0	571.5	573.7
40°	541.9	541.2	543.7	546.1	548.5
42.5°	516.0	515.7	518.0	520.4	523.0
45°	489.2	489.1	491.3	493.8	496.4
47.5°	461.9	461.6	463.9	466.5	468.7
50°	434.0	433.6	435.9	438.5	441.0
52.5°	405.2	405.2	407.3	409.6	413.3
55°	376.3	375.8	378.1	380.7	384.2
57.5°	347.0	346.4	348.5	351.1	354.3
60°	317.1	316.5	318.4	321.0	325.6
62.5°	286.9	285.9	287.8	290.3	293.0
65°	256.3	255.3	257.1	259.4	262.0
67.5°	225.6	224.5	226.2	228.2	230.6
70°	194.7	193.6	194.9	196.8	199.1
72.5°	164.0	162.9	164.0	164.8	167.6
75°	133.9	132.8	133.4	134.1	136.5
77.5°	104.7	103.5	104.8	105.2	106.6
80°	77.2	76.1	76.9	77.0	78.2
82.5°	52.2	51.2	52.3	51.5	52.5
85°	30.1	29.3	29.6	29.3	29.7
87.5°	11.9	11.2	11.4	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)