

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: P835757

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4STD-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835757
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-LD4-4STD-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

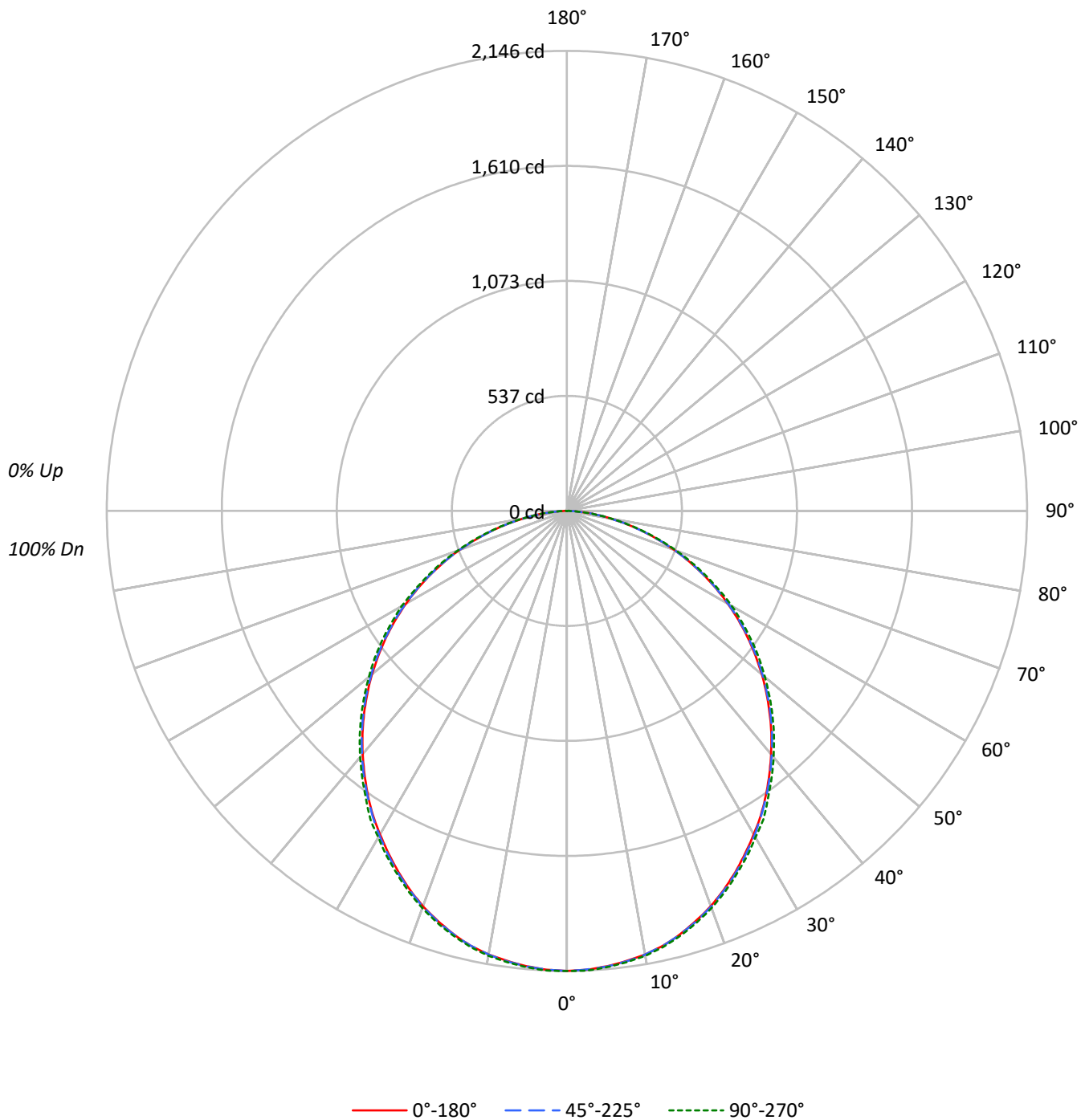
Lumens per Lamp: N/A
Luminaire Lumens: 5798.8 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5775	5775	5775
5°	5760	5764	5772
10°	5741	5743	5760
15°	5694	5698	5714
20°	5620	5626	5647
25°	5518	5532	5556
30°	5415	5433	5466
35°	5316	5329	5371
40°	5204	5221	5268
45°	5090	5112	5164
50°	4966	4989	5046
55°	4826	4849	4928
60°	4666	4684	4790
65°	4462	4476	4560
70°	4188	4191	4282
75°	3806	3793	3880
80°	3270	3257	3312
85°	2538	2498	2510

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.8	3.5
10°-20°	576.8	9.9
20°-30°	858.8	14.8
30°-40°	1015.6	17.5
40°-50°	1036.7	17.9
50°-60°	925.2	16.0
60°-70°	696.9	12.0
70°-80°	388.6	6.7
80°-90°	97.4	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°	1638.4	28.3
0°-40°	2654.0	45.8
0°-60°	4615.9	79.6
0°-90°	5798.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5798.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2146	2146	2146	2146	2146	
5°	2132	2136	2134	2134	2137	203
15°	2044	2046	2045	2047	2051	576
25°	1859	1861	1863	1868	1871	856
35°	1618	1616	1622	1628	1635	1012
45°	1337	1337	1343	1350	1357	1032
55°	1029	1027	1034	1041	1050	919
65°	701	698	703	709	716	693
75°	366	363	365	367	373	388
85°	82	80	81	80	81	99
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2146.0	2146.0	2146.0	2146.0	2146.0
2.5°	2142.5	2146.0	2141.6	2142.5	2146.5
5°	2132.3	2136.3	2134.0	2134.5	2136.7
7.5°	2118.0	2123.4	2120.3	2121.1	2123.4
10°	2101.1	2105.1	2101.6	2103.8	2107.8
12.5°	2077.2	2078.9	2077.2	2078.0	2082.5
15°	2043.8	2046.1	2045.2	2046.9	2050.9
17.5°	2004.7	2007.4	2007.0	2010.5	2013.6
20°	1962.5	1963.0	1964.7	1968.3	1971.9
22.5°	1912.8	1914.1	1915.9	1920.8	1924.3
25°	1858.6	1860.8	1863.0	1867.9	1871.4
27.5°	1801.2	1803.5	1806.6	1811.9	1817.7
30°	1742.6	1742.6	1748.4	1753.7	1759.0
32.5°	1683.5	1681.3	1686.6	1693.3	1706.2
35°	1618.2	1616.4	1622.2	1628.4	1635.1
37.5°	1550.2	1548.9	1555.5	1562.2	1568.4
40°	1481.3	1479.6	1486.2	1492.9	1499.6
42.5°	1410.7	1409.8	1416.0	1422.7	1429.8
45°	1337.4	1336.9	1343.2	1349.8	1356.9
47.5°	1262.7	1261.8	1268.1	1275.2	1281.4
50°	1186.3	1185.4	1191.6	1198.8	1205.4
52.5°	1107.7	1107.7	1113.4	1119.7	1129.9
55°	1028.6	1027.2	1033.5	1040.6	1050.4
57.5°	948.6	946.8	952.6	959.7	968.6
60°	866.9	865.1	870.4	877.5	890.0
62.5°	784.2	781.5	786.9	793.5	801.1
65°	700.7	698.0	702.9	709.1	716.2
67.5°	616.7	613.6	618.5	623.8	630.5
70°	532.3	529.2	532.7	538.1	544.3
72.5°	448.3	445.2	448.3	450.5	458.1
75°	366.1	363.0	364.8	366.6	373.2
77.5°	286.1	283.0	286.6	287.5	291.5
80°	211.0	207.9	210.2	210.6	213.7
82.5°	142.6	140.0	143.1	140.8	143.5
85°	82.2	80.0	80.9	80.0	81.3
87.5°	32.4	30.7	31.1	29.3	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)