

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: P834427

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2LO-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834427
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-2LO-35-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

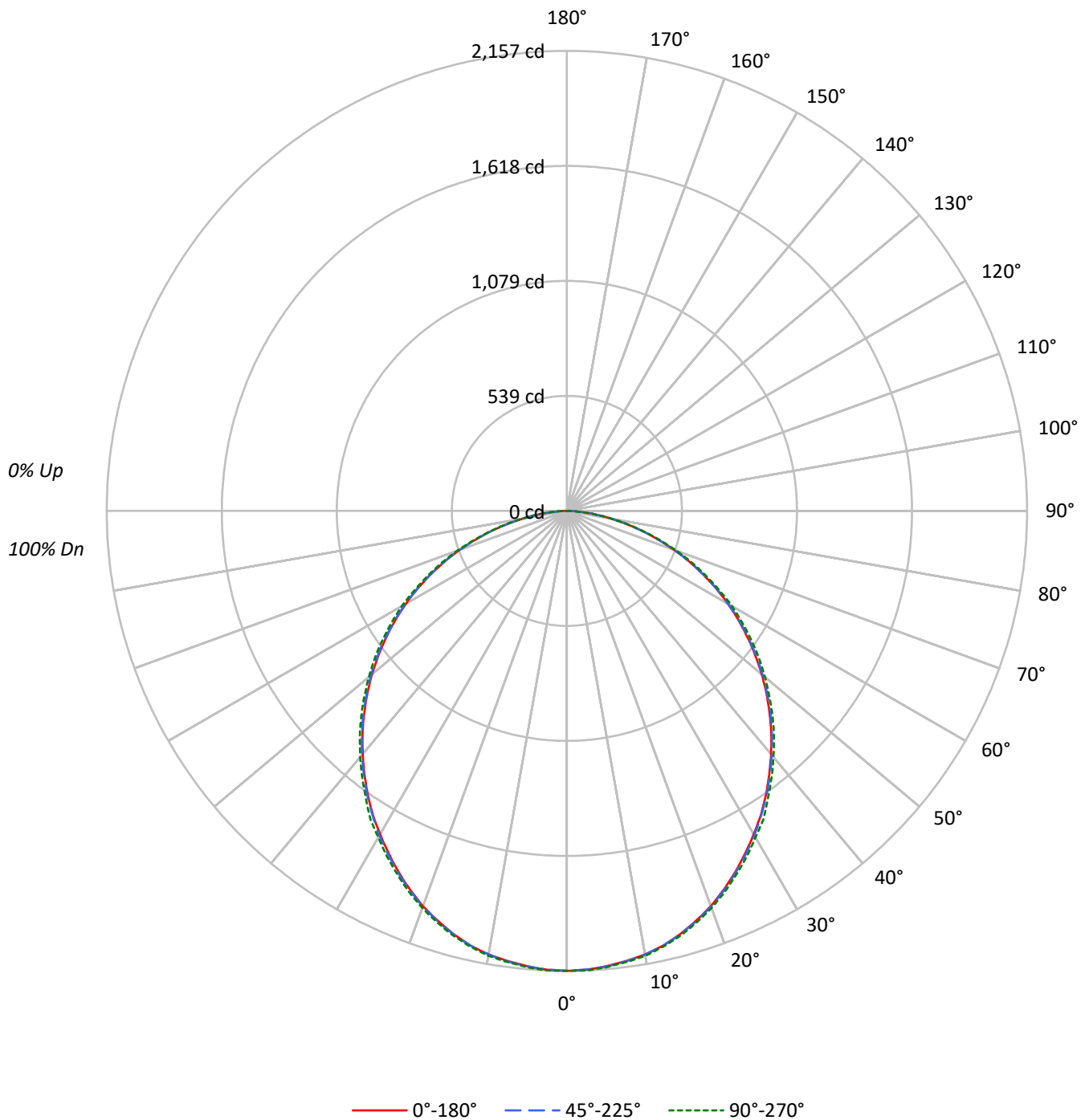
Lumens per Lamp: N/A
Luminaire Lumens: 5827.1 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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

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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°	5803	5803	5803
5°	5788	5793	5800
10°	5769	5770	5788
15°	5722	5725	5741
20°	5647	5654	5674
25°	5545	5559	5584
30°	5441	5459	5492
35°	5342	5355	5397
40°	5229	5246	5293
45°	5114	5136	5189
50°	4991	5013	5071
55°	4849	4872	4952
60°	4688	4708	4813
65°	4483	4497	4583
70°	4209	4212	4303
75°	3825	3812	3899
80°	3287	3273	3329
85°	2550	2510	2523

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	3.5
10°-20°	579.7	9.9
20°-30°	862.9	14.8
30°-40°	1020.5	17.5
40°-50°	1041.8	17.9
50°-60°	929.8	16.0
60°-70°	700.3	12.0
70°-80°	390.5	6.7
80°-90°	97.9	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°	1646.4	28.3
0°-40°	2666.9	45.8
0°-60°	4638.4	79.6
0°-90°	5827.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5827.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2156	2156	2156	2156	2156	
5°	2143	2147	2144	2145	2147	204
15°	2054	2056	2055	2057	2061	579
25°	1868	1870	1872	1877	1881	860
35°	1626	1624	1630	1636	1643	1017
45°	1344	1344	1350	1356	1364	1037
55°	1034	1032	1038	1046	1056	924
65°	704	701	706	713	720	696
75°	368	365	367	368	375	390
85°	83	80	81	80	82	99
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2156.5	2156.5	2156.5	2156.5	2156.5
2.5°	2152.9	2156.5	2152.0	2152.9	2156.9
5°	2142.7	2146.7	2144.4	2144.9	2147.1
7.5°	2128.4	2133.7	2130.6	2131.5	2133.7
10°	2111.4	2115.4	2111.8	2114.1	2118.1
12.5°	2087.3	2089.1	2087.3	2088.2	2092.6
15°	2053.8	2056.0	2055.1	2056.9	2060.9
17.5°	2014.5	2017.2	2016.7	2020.3	2023.4
20°	1972.1	1972.5	1974.3	1977.9	1981.5
22.5°	1922.1	1923.4	1925.2	1930.1	1933.7
25°	1867.6	1869.9	1872.1	1877.0	1880.6
27.5°	1810.0	1812.3	1815.4	1820.7	1826.5
30°	1751.1	1751.1	1756.9	1762.3	1767.6
32.5°	1691.7	1689.5	1694.8	1701.5	1714.5
35°	1626.1	1624.3	1630.1	1636.3	1643.0
37.5°	1557.8	1556.4	1563.1	1569.8	1576.1
40°	1488.6	1486.8	1493.5	1500.2	1506.9
42.5°	1417.6	1416.7	1422.9	1429.6	1436.8
45°	1343.9	1343.5	1349.7	1356.4	1363.5
47.5°	1268.9	1268.0	1274.3	1281.4	1287.6
50°	1192.1	1191.2	1197.5	1204.6	1211.3
52.5°	1113.1	1113.1	1118.9	1125.1	1135.4
55°	1033.6	1032.3	1038.5	1045.7	1055.5
57.5°	953.2	951.4	957.3	964.4	973.3
60°	871.1	869.3	874.7	881.8	894.3
62.5°	788.0	785.4	790.7	797.4	805.0
65°	704.1	701.4	706.3	712.6	719.7
67.5°	619.7	616.6	621.5	626.9	633.6
70°	534.9	531.8	535.3	540.7	546.9
72.5°	450.5	447.4	450.5	452.7	460.3
75°	367.9	364.8	366.6	368.3	375.0
77.5°	287.5	284.4	288.0	288.9	292.9
80°	212.1	209.0	211.2	211.6	214.8
82.5°	143.3	140.6	143.8	141.5	144.2
85°	82.6	80.4	81.3	80.4	81.7
87.5°	32.6	30.8	31.3	29.5	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)