

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: P834484

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3LO-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834484
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-LD4-3LO-35-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

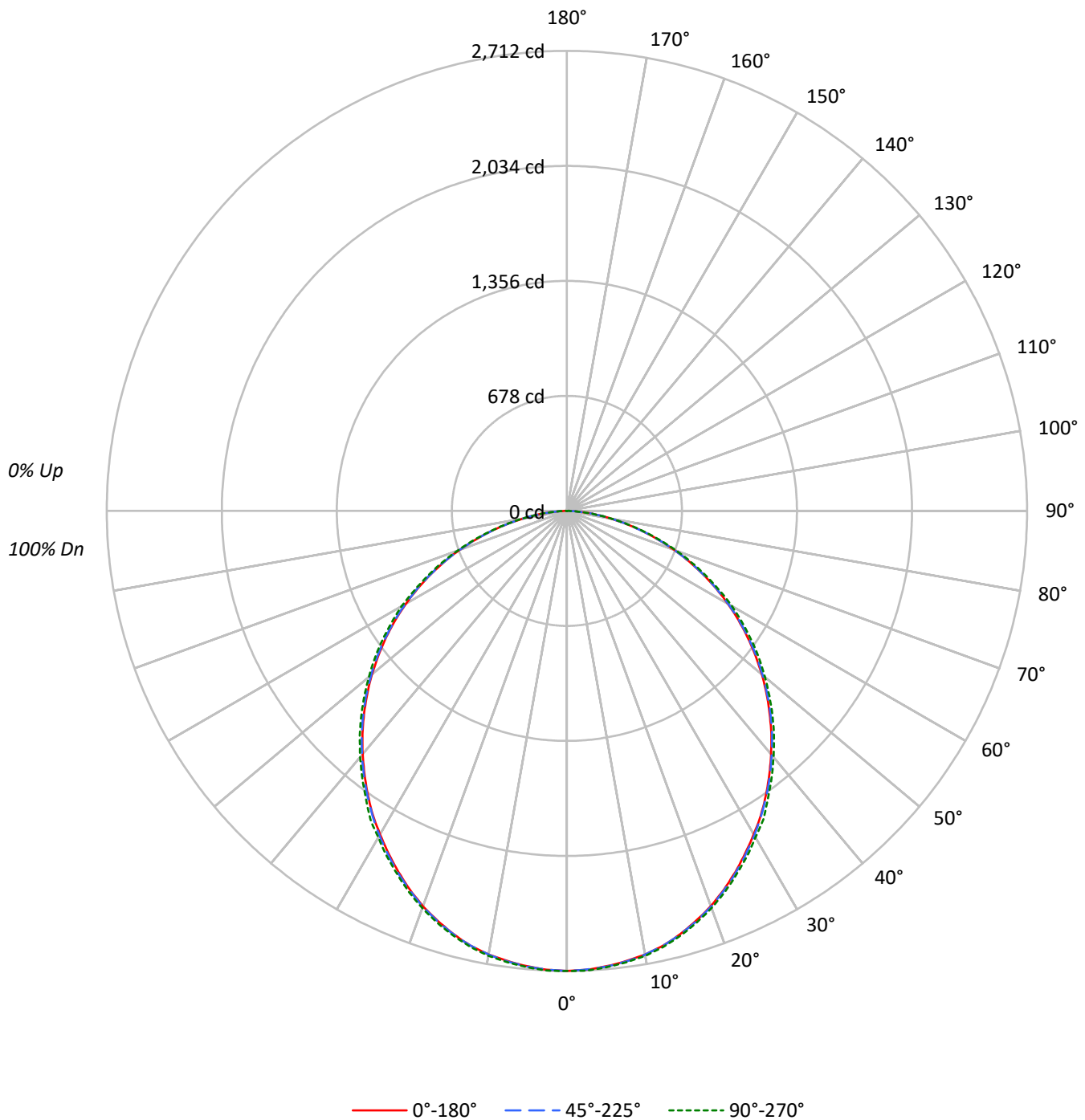
Lumens per Lamp: N/A
Luminaire Lumens: 7328.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	7298	7298	7298
5°	7279	7285	7294
10°	7255	7257	7279
15°	7195	7200	7221
20°	7102	7110	7136
25°	6974	6990	7022
30°	6843	6865	6907
35°	6718	6734	6788
40°	6576	6598	6657
45°	6432	6460	6526
50°	6276	6304	6377
55°	6098	6127	6227
60°	5895	5920	6053
65°	5638	5656	5763
70°	5293	5297	5412
75°	4811	4793	4903
80°	4133	4116	4186
85°	3208	3155	3174

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.3	3.5
10°-20°	729.0	9.9
20°-30°	1085.2	14.8
30°-40°	1283.4	17.5
40°-50°	1310.1	17.9
50°-60°	1169.2	16.0
60°-70°	880.6	12.0
70°-80°	491.1	6.7
80°-90°	123.1	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°	2070.5	28.3
0°-40°	3353.8	45.8
0°-60°	5833.2	79.6
0°-90°	7328.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7328.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2712	2712	2712	2712	2712	
5°	2694	2700	2697	2697	2700	256
15°	2583	2586	2584	2587	2592	728
25°	2349	2352	2354	2360	2365	1082
35°	2045	2043	2050	2058	2066	1279
45°	1690	1690	1697	1706	1715	1304
55°	1300	1298	1306	1315	1327	1162
65°	886	882	888	896	905	876
75°	463	459	461	463	472	490
85°	104	101	102	101	103	125
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2712.0	2712.0	2712.0	2712.0	2712.0
2.5°	2707.5	2712.0	2706.3	2707.5	2712.5
5°	2694.5	2699.6	2696.8	2697.4	2700.2
7.5°	2676.6	2683.3	2679.4	2680.5	2683.3
10°	2655.2	2660.3	2655.8	2658.6	2663.7
12.5°	2624.9	2627.2	2624.9	2626.0	2631.7
15°	2582.8	2585.6	2584.5	2586.7	2591.8
17.5°	2533.4	2536.8	2536.2	2540.7	2544.6
20°	2480.1	2480.6	2482.9	2487.4	2491.9
22.5°	2417.2	2418.9	2421.1	2427.3	2431.8
25°	2348.7	2351.5	2354.3	2360.5	2365.0
27.5°	2276.2	2279.1	2283.0	2289.7	2297.0
30°	2202.1	2202.1	2209.4	2216.2	2222.9
32.5°	2127.5	2124.6	2131.4	2139.8	2156.1
35°	2044.9	2042.7	2050.0	2057.8	2066.3
37.5°	1959.0	1957.3	1965.7	1974.2	1982.0
40°	1872.0	1869.7	1878.2	1886.6	1895.0
42.5°	1782.7	1781.6	1789.4	1797.9	1806.8
45°	1690.1	1689.5	1697.4	1705.8	1714.8
47.5°	1595.7	1594.6	1602.5	1611.5	1619.3
50°	1499.2	1498.0	1505.9	1514.9	1523.3
52.5°	1399.8	1399.8	1407.1	1414.9	1427.8
55°	1299.8	1298.1	1306.0	1315.0	1327.3
57.5°	1198.8	1196.5	1203.8	1212.8	1224.0
60°	1095.4	1093.2	1099.9	1108.9	1124.6
62.5°	991.0	987.6	994.4	1002.8	1012.4
65°	885.5	882.1	888.3	896.1	905.1
67.5°	779.3	775.4	781.6	788.3	796.7
70°	672.7	668.7	673.2	680.0	687.8
72.5°	566.5	562.6	566.5	569.3	578.9
75°	462.7	458.7	461.0	463.2	471.6
77.5°	361.6	357.7	362.2	363.3	368.3
80°	266.7	262.8	265.6	266.1	270.1
82.5°	180.2	176.9	180.8	178.0	181.4
85°	103.9	101.1	102.2	101.1	102.8
87.5°	41.0	38.7	39.3	37.1	37.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)