

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: P835744

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6LO-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835744
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-LD4-6LO-30-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

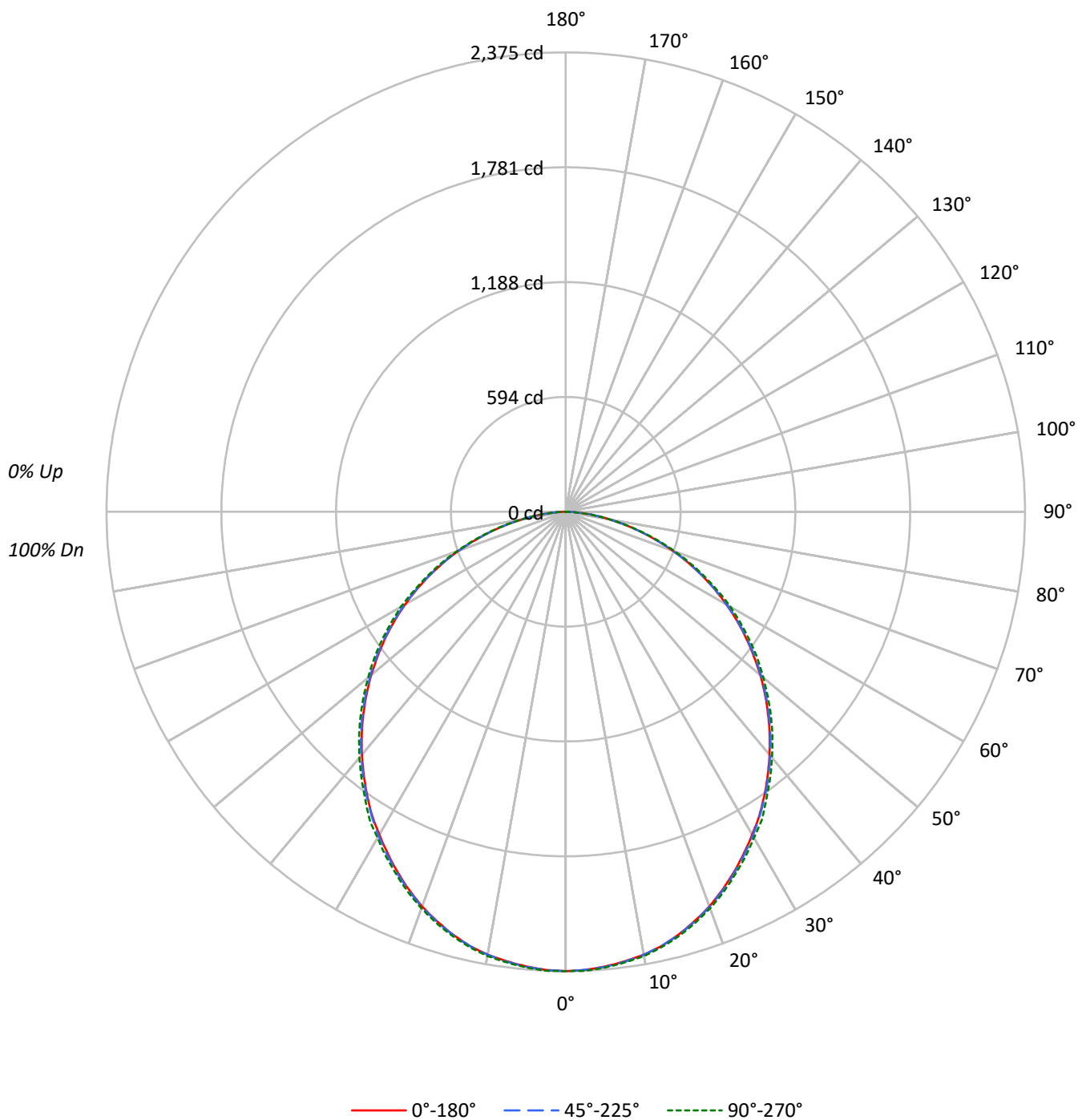
Lumens per Lamp: N/A
Luminaire Lumens: 6416.9 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	6391	6391	6391
5°	6374	6379	6387
10°	6353	6355	6374
15°	6301	6305	6323
20°	6219	6226	6249
25°	6107	6121	6149
30°	5992	6012	6048
35°	5883	5897	5944
40°	5758	5777	5829
45°	5632	5656	5715
50°	5496	5521	5584
55°	5340	5365	5453
60°	5163	5184	5300
65°	4937	4953	5047
70°	4634	4638	4739
75°	4212	4197	4294
80°	3618	3605	3665
85°	2810	2763	2779

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.4	3.5
10°-20°	638.3	9.9
20°-30°	950.3	14.8
30°-40°	1123.8	17.5
40°-50°	1147.2	17.9
50°-60°	1023.8	16.0
60°-70°	771.2	12.0
70°-80°	430.1	6.7
80°-90°	107.8	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°	1813.0	28.3
0°-40°	2936.8	45.8
0°-60°	5107.9	79.6
0°-90°	6416.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6416.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2375	2375	2375	2375	2375	
5°	2360	2364	2362	2362	2364	224
15°	2262	2264	2263	2265	2270	637
25°	2057	2059	2062	2067	2071	947
35°	1791	1789	1795	1802	1809	1120
45°	1480	1479	1486	1494	1502	1142
55°	1138	1137	1144	1152	1162	1017
65°	775	772	778	785	793	767
75°	405	402	404	406	413	429
85°	91	88	90	88	90	109
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2374.8	2374.8	2374.8	2374.8	2374.8
2.5°	2370.8	2374.8	2369.9	2370.8	2375.3
5°	2359.5	2364.0	2361.5	2362.0	2364.4
7.5°	2343.8	2349.7	2346.3	2347.2	2349.7
10°	2325.1	2329.5	2325.6	2328.1	2332.5
12.5°	2298.6	2300.5	2298.6	2299.5	2304.5
15°	2261.7	2264.1	2263.2	2265.1	2269.6
17.5°	2218.4	2221.4	2220.9	2224.8	2228.3
20°	2171.7	2172.2	2174.2	2178.1	2182.0
22.5°	2116.6	2118.1	2120.1	2125.5	2129.4
25°	2056.7	2059.1	2061.6	2067.0	2070.9
27.5°	1993.2	1995.7	1999.1	2005.0	2011.4
30°	1928.3	1928.3	1934.7	1940.6	1946.5
32.5°	1862.9	1860.5	1866.4	1873.8	1888.0
35°	1790.7	1788.7	1795.1	1802.0	1809.3
37.5°	1715.4	1714.0	1721.3	1728.7	1735.6
40°	1639.2	1637.3	1644.6	1652.0	1659.4
42.5°	1561.1	1560.1	1567.0	1574.3	1582.2
45°	1479.9	1479.4	1486.3	1493.7	1501.6
47.5°	1397.3	1396.3	1403.2	1411.1	1418.0
50°	1312.8	1311.8	1318.7	1326.5	1333.9
52.5°	1225.7	1225.7	1232.1	1239.0	1250.3
55°	1138.2	1136.7	1143.6	1151.5	1162.3
57.5°	1049.7	1047.8	1054.1	1062.0	1071.8
60°	959.3	957.3	963.2	971.1	984.8
62.5°	867.8	864.8	870.7	878.1	886.5
65°	775.4	772.4	777.8	784.7	792.6
67.5°	682.4	679.0	684.4	690.3	697.7
70°	589.0	585.6	589.5	595.4	602.3
72.5°	496.1	492.7	496.1	498.6	506.9
75°	405.1	401.7	403.7	405.6	413.0
77.5°	316.6	313.2	317.1	318.1	322.5
80°	233.5	230.1	232.6	233.1	236.5
82.5°	157.8	154.9	158.3	155.9	158.8
85°	91.0	88.5	89.5	88.5	90.0
87.5°	35.9	33.9	34.4	32.5	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)