

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: P835683

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3HI-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835683
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-LD4-3HI-50-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

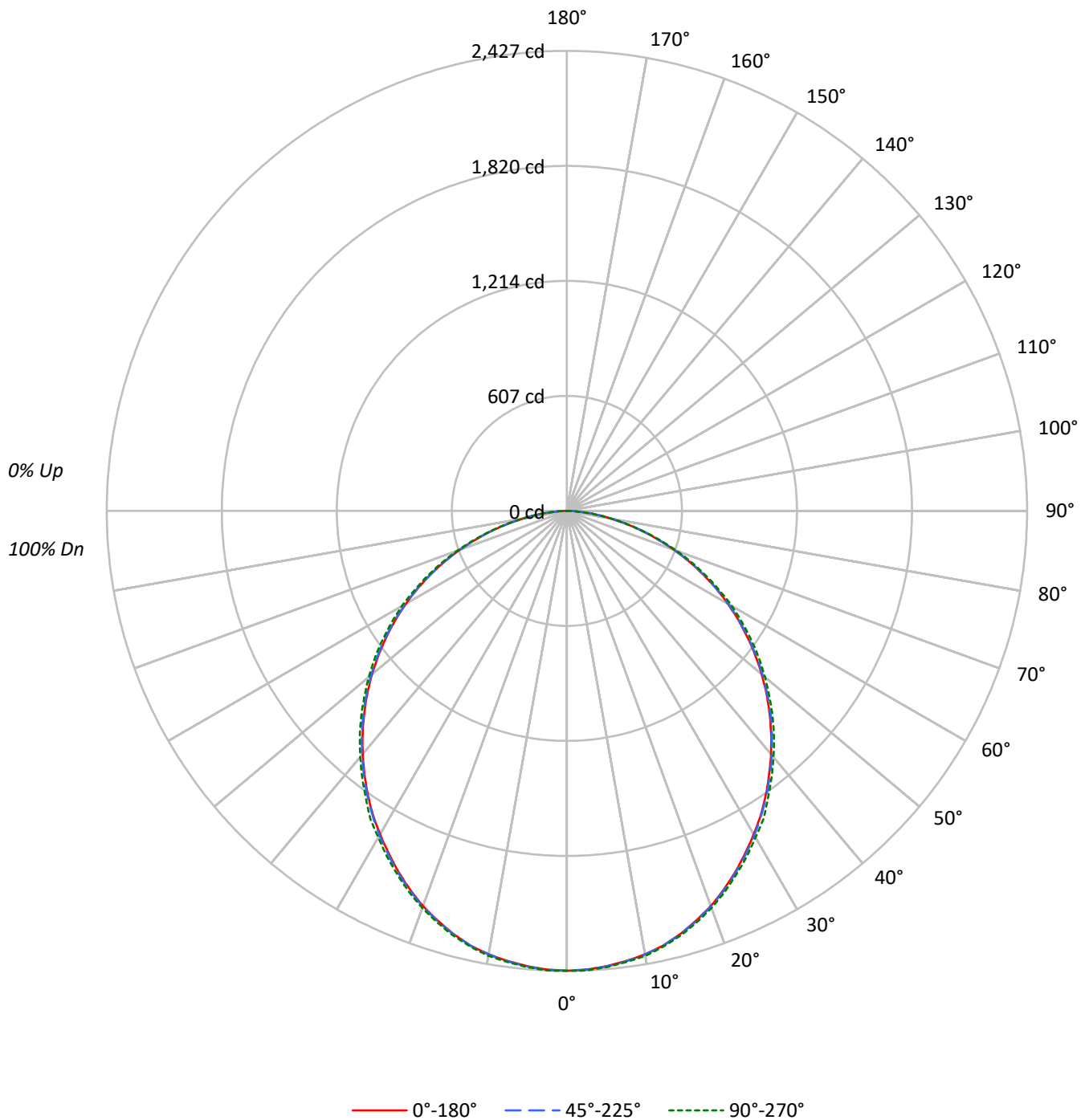
Lumens per Lamp: N/A
Luminaire Lumens: 6555.8 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66
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	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6529	6529	6529
5°	6512	6517	6525
10°	6491	6492	6512
15°	6437	6441	6460
20°	6354	6361	6384
25°	6239	6254	6282
30°	6122	6142	6179
35°	6010	6025	6072
40°	5883	5902	5955
45°	5754	5779	5838
50°	5615	5640	5705
55°	5456	5482	5571
60°	5274	5296	5415
65°	5044	5060	5156
70°	4735	4739	4841
75°	4303	4288	4387
80°	3698	3682	3744
85°	2868	2822	2837

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.3	3.5
10°-20°	652.2	9.9
20°-30°	970.9	14.8
30°-40°	1148.1	17.5
40°-50°	1172.1	17.9
50°-60°	1046.0	16.0
60°-70°	787.8	12.0
70°-80°	439.4	6.7
80°-90°	110.1	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°	1852.3	28.3
0°-40°	3000.4	45.8
0°-60°	5218.5	79.6
0°-90°	6555.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6555.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2426	2426	2426	2426	2426	
5°	2411	2415	2413	2413	2416	229
15°	2311	2313	2312	2314	2319	651
25°	2101	2104	2106	2112	2116	968
35°	1829	1827	1834	1841	1848	1144
45°	1512	1512	1518	1526	1534	1166
55°	1163	1161	1168	1176	1188	1039
65°	792	789	795	802	810	783
75°	414	410	412	414	422	439
85°	93	90	91	90	92	112
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2426.2	2426.2	2426.2	2426.2	2426.2
2.5°	2422.2	2426.2	2421.2	2422.2	2426.7
5°	2410.6	2415.1	2412.6	2413.1	2415.6
7.5°	2394.5	2400.6	2397.0	2398.0	2400.6
10°	2375.4	2380.0	2375.9	2378.5	2383.0
12.5°	2348.3	2350.3	2348.3	2349.3	2354.3
15°	2310.6	2313.2	2312.1	2314.2	2318.7
17.5°	2266.4	2269.5	2268.9	2273.0	2276.5
20°	2218.7	2219.2	2221.2	2225.2	2229.3
22.5°	2162.5	2164.0	2166.0	2171.5	2175.5
25°	2101.2	2103.7	2106.2	2111.7	2115.7
27.5°	2036.4	2038.9	2042.4	2048.4	2055.0
30°	1970.1	1970.1	1976.6	1982.6	1988.7
32.5°	1903.3	1900.8	1906.8	1914.3	1928.9
35°	1829.4	1827.4	1833.9	1841.0	1848.5
37.5°	1752.6	1751.1	1758.6	1766.1	1773.2
40°	1674.7	1672.7	1680.2	1687.8	1695.3
42.5°	1594.8	1593.8	1600.9	1608.4	1616.4
45°	1512.0	1511.5	1518.5	1526.0	1534.1
47.5°	1427.6	1426.6	1433.6	1441.6	1448.7
50°	1341.2	1340.2	1347.2	1355.2	1362.8
52.5°	1252.3	1252.3	1258.8	1265.8	1277.4
55°	1162.9	1161.3	1168.4	1176.4	1187.5
57.5°	1072.4	1070.4	1077.0	1085.0	1095.0
60°	980.0	978.0	984.0	992.1	1006.1
62.5°	886.6	883.6	889.6	897.1	905.7
65°	792.1	789.1	794.7	801.7	809.7
67.5°	697.2	693.7	699.2	705.2	712.8
70°	601.8	598.3	602.3	608.3	615.3
72.5°	506.8	503.3	506.8	509.3	517.9
75°	413.9	410.4	412.4	414.4	421.9
77.5°	323.5	320.0	324.0	325.0	329.5
80°	238.6	235.1	237.6	238.1	241.6
82.5°	161.2	158.2	161.7	159.2	162.2
85°	92.9	90.4	91.4	90.4	91.9
87.5°	36.7	34.7	35.2	33.2	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)