

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: P835791

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3HI-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835791
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-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

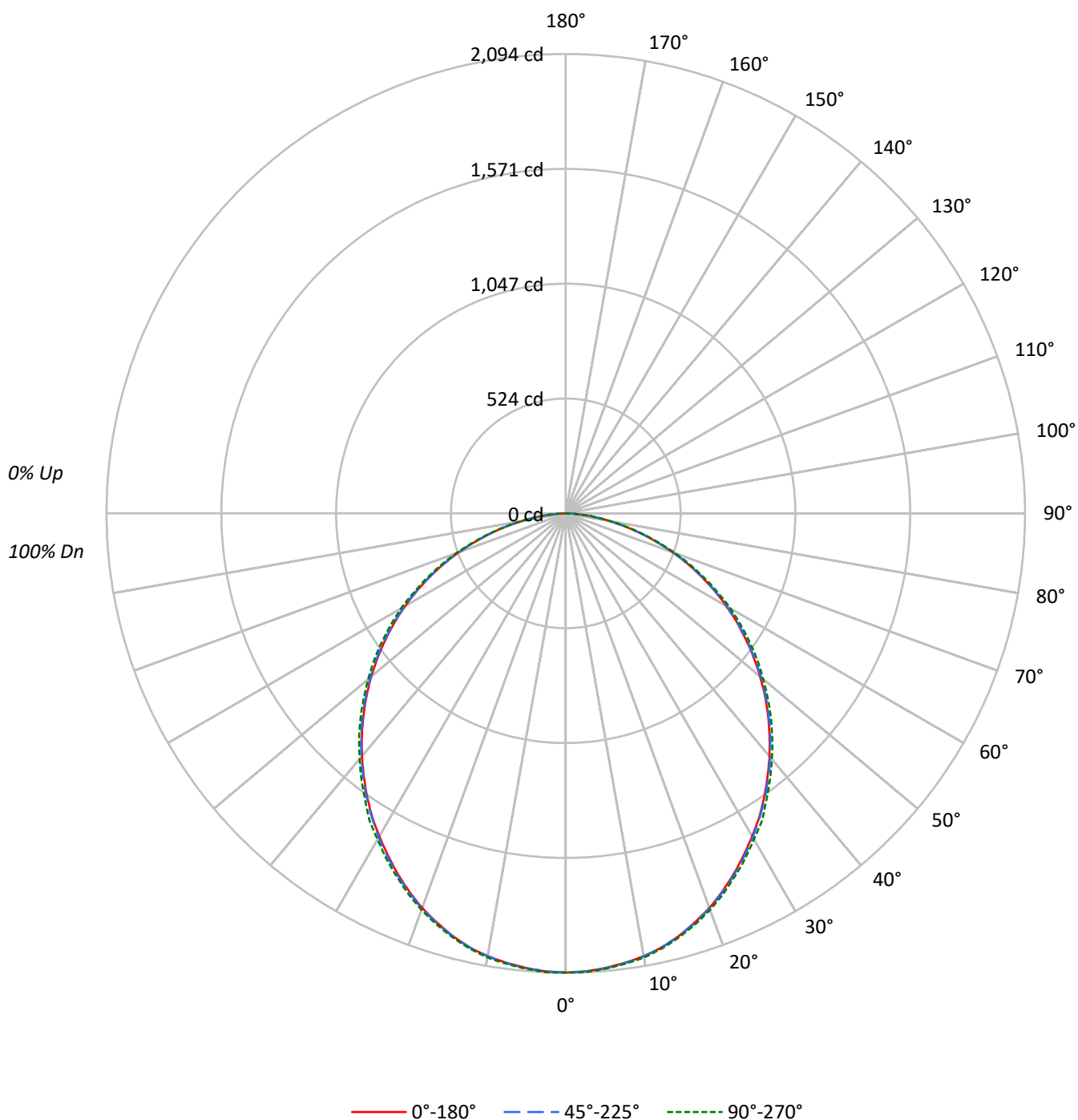
Lumens per Lamp: N/A
Luminaire Lumens: 5656.0 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	5633	5633	5633
5°	5618	5623	5630
10°	5600	5601	5618
15°	5554	5557	5573
20°	5482	5488	5508
25°	5383	5395	5420
30°	5281	5299	5331
35°	5185	5198	5239
40°	5076	5092	5138
45°	4964	4986	5037
50°	4844	4866	4922
55°	4707	4729	4807
60°	4550	4569	4672
65°	4351	4365	4448
70°	4085	4088	4177
75°	3713	3699	3785
80°	3191	3177	3231
85°	2476	2436	2448

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.8	3.5
10°-20°	562.6	9.9
20°-30°	837.6	14.8
30°-40°	990.5	17.5
40°-50°	1011.2	17.9
50°-60°	902.4	16.0
60°-70°	679.7	12.0
70°-80°	379.1	6.7
80°-90°	95.0	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°	1598.0	28.3
0°-40°	2588.6	45.8
0°-60°	4502.2	79.6
0°-90°	5656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5656.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2093	2093	2093	2093	2093	
5°	2080	2084	2082	2082	2084	198
15°	1994	1996	1995	1996	2000	562
25°	1813	1815	1817	1822	1825	835
35°	1578	1577	1582	1588	1595	987
45°	1304	1304	1310	1317	1324	1006
55°	1003	1002	1008	1015	1024	897
65°	683	681	686	692	699	676
75°	357	354	356	358	364	379
85°	80	78	79	78	79	96
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2093.2	2093.2	2093.2	2093.2	2093.2
2.5°	2089.7	2093.2	2088.8	2089.7	2093.6
5°	2079.7	2083.6	2081.5	2081.9	2084.1
7.5°	2065.9	2071.1	2068.0	2068.9	2071.1
10°	2049.4	2053.3	2049.8	2052.0	2055.9
12.5°	2026.0	2027.7	2026.0	2026.9	2031.2
15°	1993.5	1995.7	1994.8	1996.5	2000.4
17.5°	1955.4	1958.0	1957.5	1961.0	1964.0
20°	1914.2	1914.6	1916.4	1919.8	1923.3
22.5°	1865.7	1867.0	1868.7	1873.5	1876.9
25°	1812.8	1814.9	1817.1	1821.9	1825.3
27.5°	1756.9	1759.0	1762.1	1767.3	1772.9
30°	1699.7	1699.7	1705.3	1710.5	1715.7
32.5°	1642.0	1639.9	1645.1	1651.6	1664.1
35°	1578.3	1576.6	1582.2	1588.3	1594.8
37.5°	1512.0	1510.7	1517.2	1523.7	1529.8
40°	1444.9	1443.1	1449.6	1456.1	1462.6
42.5°	1375.9	1375.1	1381.1	1387.6	1394.6
45°	1304.4	1304.0	1310.1	1316.6	1323.5
47.5°	1231.6	1230.8	1236.8	1243.8	1249.8
50°	1157.1	1156.2	1162.3	1169.2	1175.7
52.5°	1080.4	1080.4	1086.0	1092.1	1102.1
55°	1003.2	1001.9	1008.0	1014.9	1024.5
57.5°	925.2	923.5	929.1	936.1	944.7
60°	845.5	843.8	849.0	855.9	868.0
62.5°	764.9	762.3	767.5	774.0	781.4
65°	683.4	680.8	685.6	691.7	698.6
67.5°	601.5	598.5	603.2	608.4	614.9
70°	519.2	516.1	519.6	524.8	530.9
72.5°	437.3	434.2	437.3	439.4	446.8
75°	357.1	354.1	355.8	357.5	364.0
77.5°	279.1	276.1	279.5	280.4	284.3
80°	205.9	202.8	205.0	205.4	208.5
82.5°	139.1	136.5	139.5	137.4	140.0
85°	80.2	78.0	78.9	78.0	79.3
87.5°	31.6	29.9	30.3	28.6	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)