

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: P835628

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3STD-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835628
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-LD4-3STD-30-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

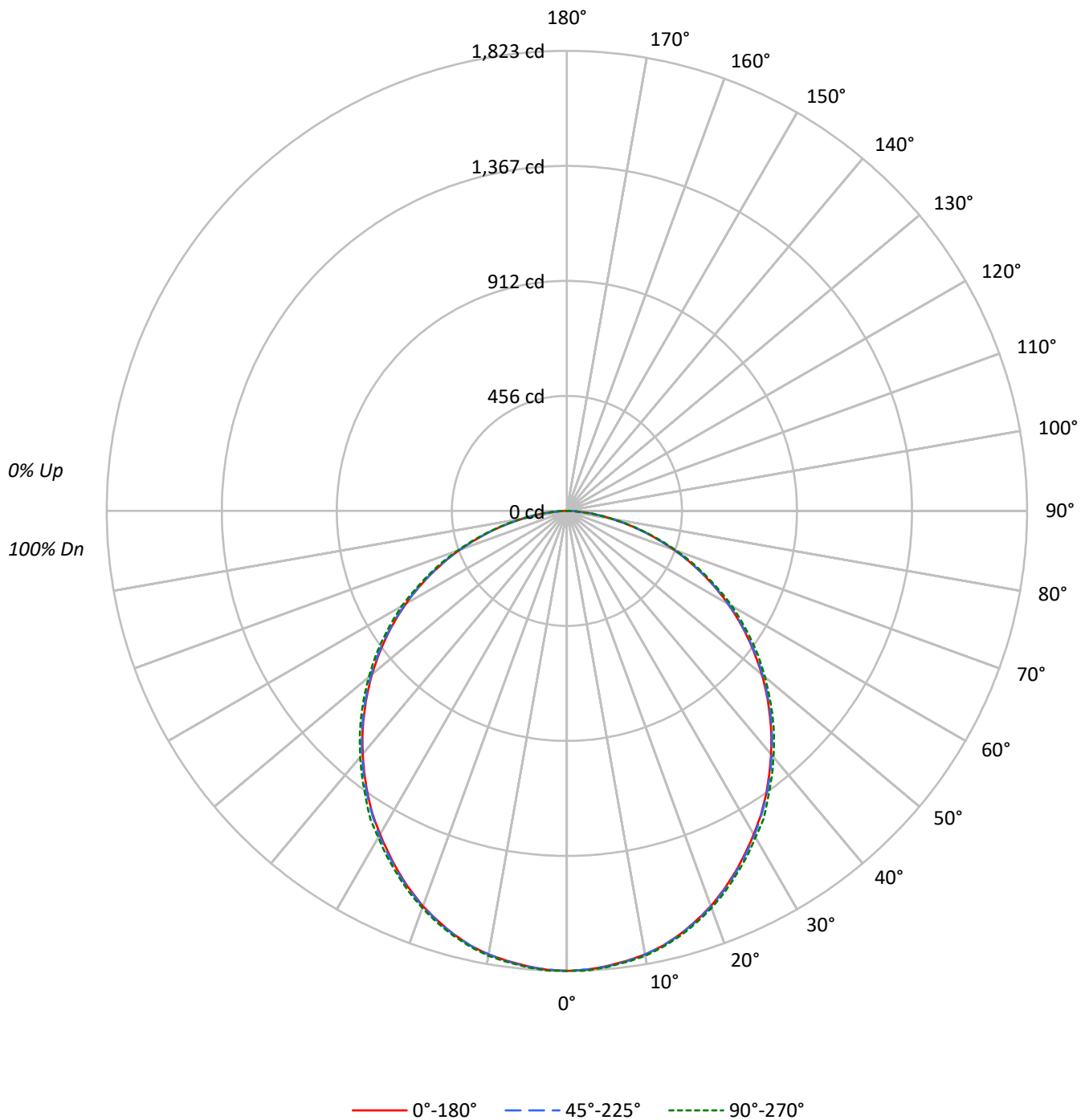
Lumens per Lamp: N/A
Luminaire Lumens: 4925.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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

Peachtree City, GA 30269



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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°	4905	4905	4905
5°	4892	4896	4902
10°	4876	4877	4892
15°	4836	4839	4853
20°	4773	4779	4796
25°	4687	4698	4719
30°	4599	4614	4642
35°	4515	4526	4562
40°	4419	4434	4474
45°	4323	4341	4386
50°	4218	4237	4286
55°	4099	4118	4185
60°	3962	3979	4068
65°	3789	3801	3873
70°	3557	3560	3637
75°	3232	3221	3296
80°	2777	2766	2813
85°	2155	2121	2133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	3.5
10°-20°	489.9	9.9
20°-30°	729.4	14.8
30°-40°	862.5	17.5
40°-50°	880.5	17.9
50°-60°	785.8	16.0
60°-70°	591.9	12.0
70°-80°	330.1	6.7
80°-90°	82.7	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°	1391.5	28.3
0°-40°	2254.0	45.8
0°-60°	3920.4	79.6
0°-90°	4925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1823	1823	1823	1823	1823	
5°	1811	1814	1812	1813	1815	172
15°	1736	1738	1737	1738	1742	489
25°	1578	1580	1582	1586	1590	727
35°	1374	1373	1378	1383	1389	859
45°	1136	1136	1141	1146	1152	876
55°	874	872	878	884	892	781
65°	595	593	597	602	608	589
75°	311	308	310	311	317	330
85°	70	68	69	68	69	84
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1822.7	1822.7	1822.7	1822.7	1822.7
2.5°	1819.6	1822.7	1818.9	1819.6	1823.0
5°	1811.0	1814.4	1812.5	1812.9	1814.7
7.5°	1798.9	1803.4	1800.8	1801.5	1803.4
10°	1784.5	1787.9	1784.9	1786.8	1790.2
12.5°	1764.2	1765.7	1764.2	1764.9	1768.7
15°	1735.9	1737.8	1737.0	1738.5	1741.9
17.5°	1702.7	1704.9	1704.5	1707.6	1710.2
20°	1666.8	1667.2	1668.7	1671.7	1674.7
22.5°	1624.5	1625.7	1627.2	1631.3	1634.4
25°	1578.5	1580.4	1582.3	1586.4	1589.5
27.5°	1529.8	1531.7	1534.4	1538.9	1543.8
30°	1480.0	1480.0	1484.9	1489.5	1494.0
32.5°	1429.8	1427.9	1432.5	1438.1	1449.1
35°	1374.4	1372.8	1377.8	1383.0	1388.7
37.5°	1316.6	1315.5	1321.1	1326.8	1332.1
40°	1258.1	1256.6	1262.3	1267.9	1273.6
42.5°	1198.1	1197.4	1202.7	1208.3	1214.4
45°	1135.9	1135.5	1140.8	1146.4	1152.5
47.5°	1072.5	1071.7	1077.0	1083.0	1088.3
50°	1007.6	1006.8	1012.1	1018.1	1023.8
52.5°	940.8	940.8	945.7	951.0	959.6
55°	873.6	872.5	877.7	883.8	892.1
57.5°	805.7	804.2	809.1	815.1	822.7
60°	736.2	734.7	739.3	745.3	755.9
62.5°	666.0	663.8	668.3	674.0	680.4
65°	595.1	592.8	597.0	602.3	608.3
67.5°	523.8	521.1	525.3	529.8	535.5
70°	452.1	449.4	452.5	457.0	462.3
72.5°	380.8	378.1	380.8	382.6	389.1
75°	310.9	308.3	309.8	311.3	317.0
77.5°	243.0	240.4	243.4	244.2	247.5
80°	179.2	176.6	178.5	178.9	181.5
82.5°	121.1	118.9	121.5	119.6	121.9
85°	69.8	67.9	68.7	67.9	69.1
87.5°	27.5	26.0	26.4	24.9	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)