

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: P834444

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1HI-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834444
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-LD4-1HI-50-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

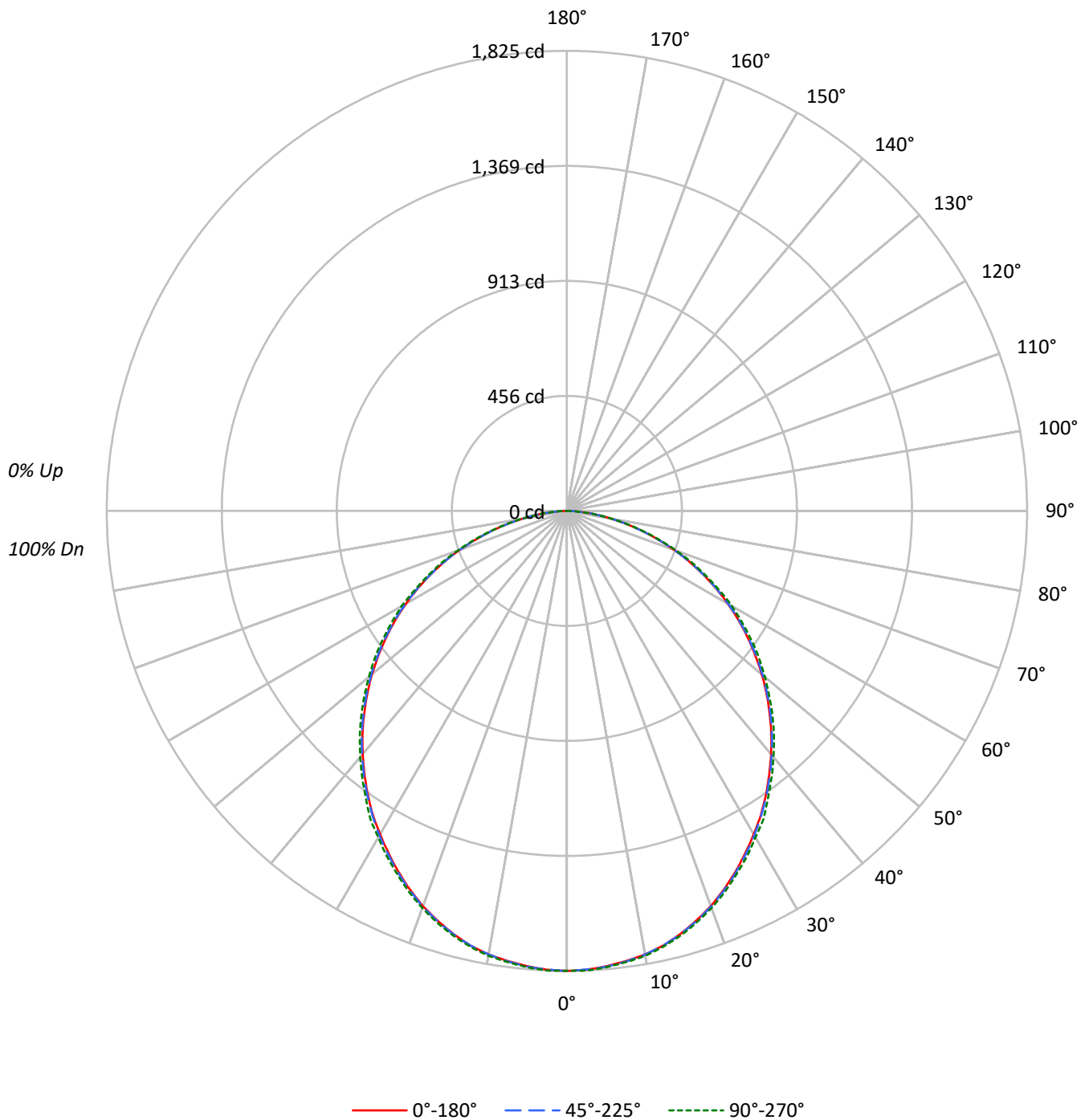
Lumens per Lamp: N/A
Luminaire Lumens: 4930.6 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4910	4910	4910
5°	4897	4901	4908
10°	4882	4883	4897
15°	4841	4845	4858
20°	4779	4784	4801
25°	4692	4703	4725
30°	4604	4619	4648
35°	4520	4531	4567
40°	4424	4439	4479
45°	4327	4346	4391
50°	4223	4242	4291
55°	4103	4122	4190
60°	3967	3983	4073
65°	3794	3806	3878
70°	3561	3564	3641
75°	3237	3225	3299
80°	2780	2769	2816
85°	2158	2124	2133

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.4	3.5
10°-20°	490.5	9.9
20°-30°	730.2	14.8
30°-40°	863.5	17.5
40°-50°	881.5	17.9
50°-60°	786.7	16.0
60°-70°	592.5	12.0
70°-80°	330.5	6.7
80°-90°	82.8	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°	1393.1	28.3
0°-40°	2256.6	45.8
0°-60°	3924.8	79.6
0°-90°	4930.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4930.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1825	1825	1825	1825	1825	
5°	1813	1816	1814	1815	1817	172
15°	1738	1740	1739	1740	1744	490
25°	1580	1582	1584	1588	1591	728
35°	1376	1374	1379	1385	1390	860
45°	1137	1137	1142	1148	1154	877
55°	875	873	879	885	893	782
65°	596	594	598	603	609	589
75°	311	309	310	312	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°	1824.7	1824.7	1824.7	1824.7	1824.7
2.5°	1821.7	1824.7	1820.9	1821.7	1825.1
5°	1813.0	1816.4	1814.5	1814.9	1816.8
7.5°	1800.9	1805.4	1802.8	1803.6	1805.4
10°	1786.6	1790.0	1786.9	1788.8	1792.2
12.5°	1766.2	1767.7	1766.2	1766.9	1770.7
15°	1737.8	1739.7	1739.0	1740.5	1743.9
17.5°	1704.6	1706.8	1706.5	1709.5	1712.1
20°	1668.7	1669.1	1670.6	1673.6	1676.6
22.5°	1626.4	1627.5	1629.0	1633.2	1636.2
25°	1580.3	1582.2	1584.1	1588.2	1591.2
27.5°	1531.6	1533.4	1536.1	1540.6	1545.5
30°	1481.7	1481.7	1486.6	1491.1	1495.7
32.5°	1431.4	1429.5	1434.1	1439.7	1450.7
35°	1375.9	1374.4	1379.3	1384.6	1390.3
37.5°	1318.1	1317.0	1322.6	1328.3	1333.6
40°	1259.5	1258.0	1263.7	1269.4	1275.0
42.5°	1199.5	1198.7	1204.0	1209.7	1215.7
45°	1137.1	1136.8	1142.1	1147.7	1153.8
47.5°	1073.7	1072.9	1078.2	1084.3	1089.5
50°	1008.7	1007.9	1013.2	1019.3	1024.9
52.5°	941.8	941.8	946.7	952.0	960.7
55°	874.6	873.4	878.7	884.8	893.1
57.5°	806.6	805.1	810.0	816.0	823.6
60°	737.1	735.6	740.1	746.1	756.7
62.5°	666.8	664.5	669.1	674.7	681.2
65°	595.8	593.5	597.7	602.9	609.0
67.5°	524.4	521.7	525.9	530.4	536.1
70°	452.6	449.9	453.0	457.5	462.8
72.5°	381.2	378.5	381.2	383.1	389.5
75°	311.3	308.7	310.2	311.7	317.3
77.5°	243.3	240.7	243.7	244.4	247.8
80°	179.4	176.8	178.7	179.1	181.7
82.5°	121.3	119.0	121.6	119.8	122.0
85°	69.9	68.0	68.8	68.0	69.1
87.5°	27.6	26.1	26.4	24.9	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)