

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: P834456

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2HI-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834456
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-LD4-2HI-20-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

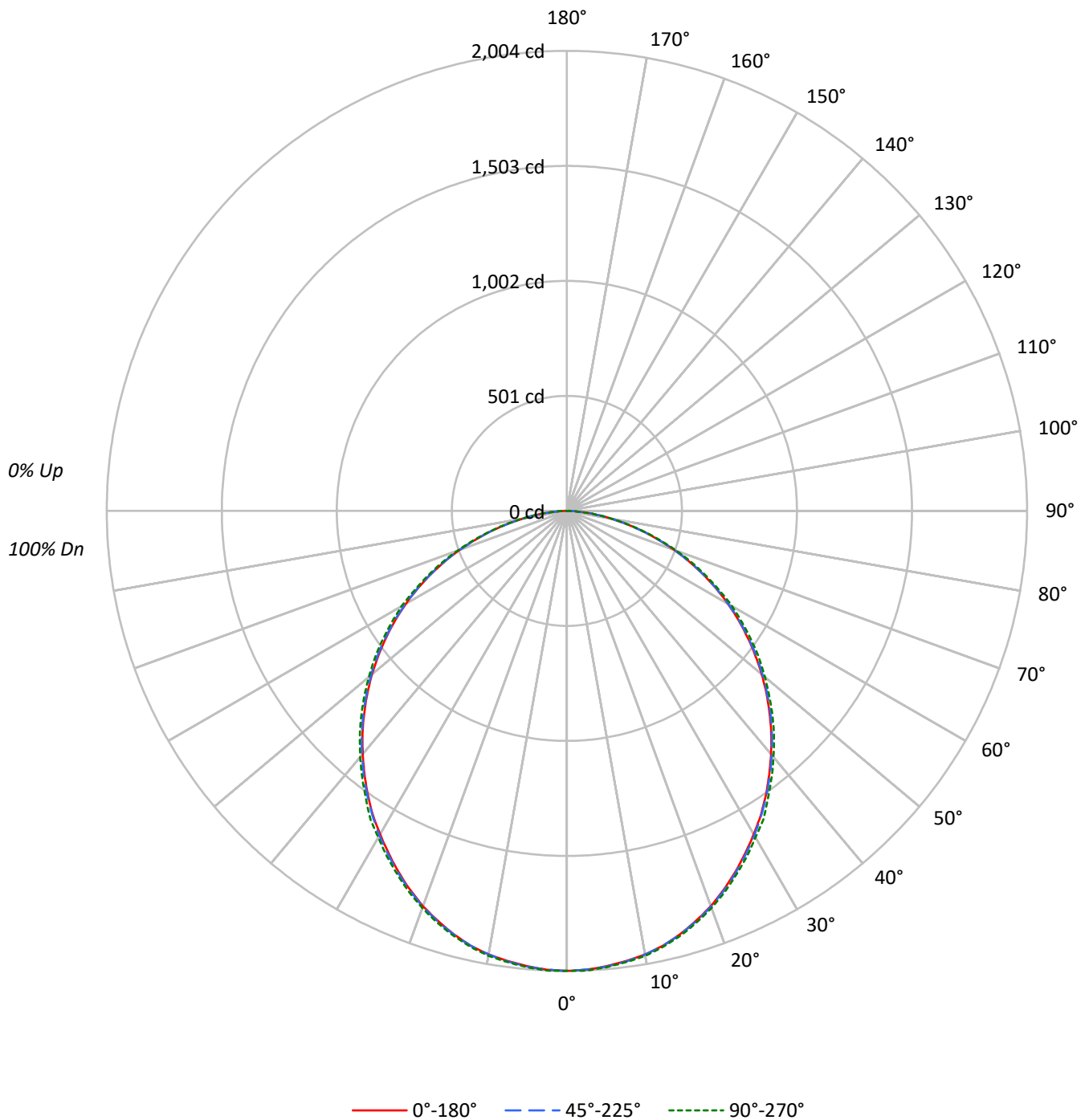
Lumens per Lamp: N/A
Luminaire Lumens: 5414.0 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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°	5392	5392	5392
5°	5377	5382	5389
10°	5360	5361	5377
15°	5316	5319	5334
20°	5247	5253	5272
25°	5152	5165	5188
30°	5055	5072	5103
35°	4963	4975	5015
40°	4858	4874	4918
45°	4752	4772	4821
50°	4637	4658	4711
55°	4505	4527	4601
60°	4356	4373	4472
65°	4166	4179	4258
70°	3910	3913	3998
75°	3554	3541	3623
80°	3053	3040	3092
85°	2368	2331	2343

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.3	3.5
10°-20°	538.6	9.9
20°-30°	801.8	14.8
30°-40°	948.2	17.5
40°-50°	967.9	17.9
50°-60°	863.8	16.0
60°-70°	650.6	12.0
70°-80°	362.8	6.7
80°-90°	90.9	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°	1529.7	28.3
0°-40°	2477.8	45.8
0°-60°	4309.6	79.6
0°-90°	5414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2004	2004	2004	2004	2004	
5°	1991	1994	1992	1993	1995	189
15°	1908	1910	1909	1911	1915	538
25°	1735	1737	1739	1744	1747	799
35°	1511	1509	1514	1520	1527	945
45°	1249	1248	1254	1260	1267	963
55°	960	959	965	972	981	858
65°	654	652	656	662	669	647
75°	342	339	341	342	348	362
85°	77	75	76	75	76	92
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2003.6	2003.6	2003.6	2003.6	2003.6
2.5°	2000.3	2003.6	1999.5	2000.3	2004.0
5°	1990.7	1994.5	1992.4	1992.8	1994.9
7.5°	1977.5	1982.5	1979.5	1980.4	1982.5
10°	1961.7	1965.4	1962.1	1964.2	1967.9
12.5°	1939.3	1941.0	1939.3	1940.1	1944.3
15°	1908.2	1910.3	1909.4	1911.1	1914.8
17.5°	1871.7	1874.2	1873.8	1877.1	1880.0
20°	1832.3	1832.7	1834.4	1837.7	1841.0
22.5°	1785.8	1787.1	1788.7	1793.3	1796.6
25°	1735.2	1737.3	1739.4	1743.9	1747.2
27.5°	1681.7	1683.8	1686.7	1691.7	1697.1
30°	1626.9	1626.9	1632.3	1637.3	1642.3
32.5°	1571.8	1569.7	1574.7	1580.9	1592.9
35°	1510.8	1509.1	1514.5	1520.3	1526.6
37.5°	1447.3	1446.1	1452.3	1458.5	1464.3
40°	1383.0	1381.4	1387.6	1393.8	1400.0
42.5°	1317.1	1316.2	1322.0	1328.3	1334.9
45°	1248.6	1248.2	1254.0	1260.2	1266.9
47.5°	1178.9	1178.1	1183.9	1190.5	1196.4
50°	1107.6	1106.8	1112.6	1119.2	1125.4
52.5°	1034.2	1034.2	1039.6	1045.4	1054.9
55°	960.3	959.1	964.9	971.5	980.6
57.5°	885.7	884.0	889.4	896.0	904.3
60°	809.3	807.7	812.6	819.3	830.9
62.5°	732.2	729.7	734.7	740.9	747.9
65°	654.2	651.7	656.3	662.1	668.7
67.5°	575.8	572.9	577.4	582.4	588.6
70°	497.0	494.1	497.4	502.4	508.2
72.5°	418.6	415.7	418.6	420.6	427.7
75°	341.8	338.9	340.6	342.2	348.5
77.5°	267.1	264.2	267.6	268.4	272.1
80°	197.0	194.1	196.2	196.6	199.5
82.5°	133.2	130.7	133.6	131.5	134.0
85°	76.7	74.7	75.5	74.7	75.9
87.5°	30.3	28.6	29.0	27.4	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)