

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: P835721

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4STD-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835721
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-LD4-4STD-27-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

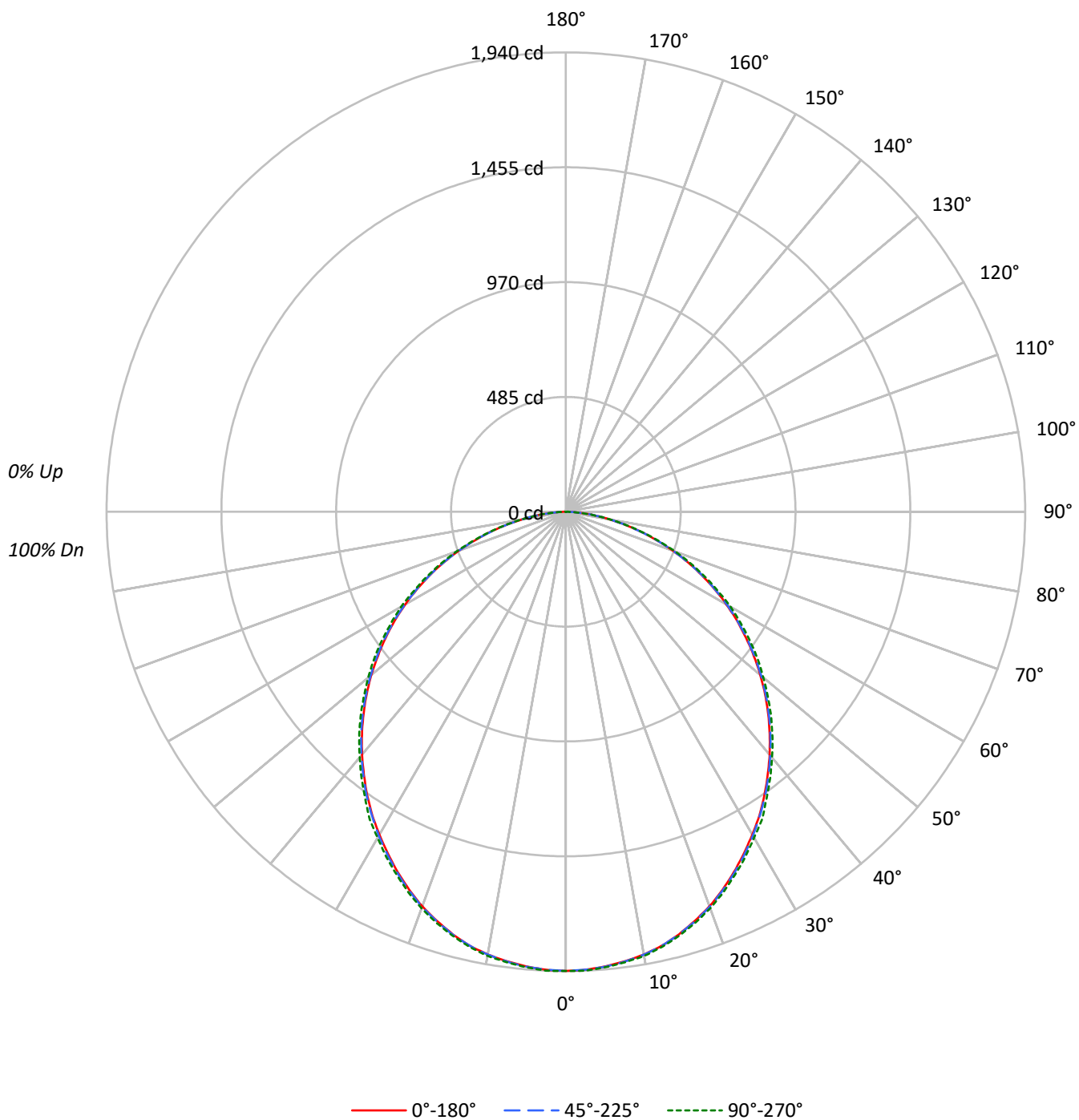
Lumens per Lamp: N/A
Luminaire Lumens: 5239.9 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	5218	5218	5218
5°	5205	5209	5215
10°	5188	5189	5205
15°	5145	5148	5163
20°	5078	5084	5103
25°	4986	4998	5021
30°	4893	4909	4939
35°	4803	4815	4854
40°	4702	4718	4760
45°	4599	4619	4666
50°	4488	4508	4560
55°	4360	4381	4453
60°	4216	4233	4328
65°	4031	4045	4121
70°	3784	3788	3869
75°	3439	3427	3506
80°	2955	2943	2992
85°	2294	2257	2269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.2	3.5
10°-20°	521.2	9.9
20°-30°	776.0	14.8
30°-40°	917.7	17.5
40°-50°	936.8	17.9
50°-60°	836.1	16.0
60°-70°	629.7	12.0
70°-80°	351.2	6.7
80°-90°	88.0	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°	1480.5	28.3
0°-40°	2398.1	45.8
0°-60°	4171.0	79.6
0°-90°	5239.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5239.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1939	1939	1939	1939	1939	
5°	1927	1930	1928	1929	1931	183
15°	1847	1849	1848	1850	1853	521
25°	1679	1681	1683	1688	1691	774
35°	1462	1461	1466	1471	1478	914
45°	1208	1208	1214	1220	1226	932
55°	929	928	934	940	949	831
65°	633	631	635	641	647	626
75°	331	328	330	331	337	351
85°	74	72	73	72	74	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1939.2	1939.2	1939.2	1939.2	1939.2
2.5°	1936.0	1939.2	1935.2	1936.0	1939.6
5°	1926.7	1930.3	1928.3	1928.7	1930.7
7.5°	1913.9	1918.7	1915.9	1916.7	1918.7
10°	1898.6	1902.2	1899.0	1901.0	1904.7
12.5°	1876.9	1878.6	1876.9	1877.8	1881.8
15°	1846.8	1848.8	1848.0	1849.6	1853.3
17.5°	1811.5	1813.9	1813.5	1816.7	1819.5
20°	1773.4	1773.8	1775.4	1778.6	1781.8
22.5°	1728.4	1729.6	1731.2	1735.6	1738.8
25°	1679.4	1681.4	1683.4	1687.8	1691.1
27.5°	1627.6	1629.6	1632.4	1637.3	1642.5
30°	1574.6	1574.6	1579.8	1584.7	1589.5
32.5°	1521.2	1519.2	1524.0	1530.1	1541.7
35°	1462.2	1460.6	1465.8	1471.4	1477.5
37.5°	1400.8	1399.6	1405.6	1411.6	1417.2
40°	1338.6	1336.9	1343.0	1349.0	1355.0
42.5°	1274.7	1273.9	1279.5	1285.6	1292.0
45°	1208.5	1208.1	1213.7	1219.7	1226.1
47.5°	1141.0	1140.2	1145.8	1152.3	1157.9
50°	1072.0	1071.2	1076.8	1083.2	1089.2
52.5°	1000.9	1000.9	1006.1	1011.7	1021.0
55°	929.4	928.2	933.9	940.3	949.1
57.5°	857.2	855.6	860.8	867.2	875.2
60°	783.3	781.7	786.5	792.9	804.2
62.5°	708.6	706.2	711.0	717.1	723.9
65°	633.1	630.7	635.2	640.8	647.2
67.5°	557.3	554.5	558.9	563.7	569.7
70°	481.0	478.2	481.4	486.2	491.8
72.5°	405.1	402.3	405.1	407.1	413.9
75°	330.8	328.0	329.6	331.2	337.2
77.5°	258.6	255.7	259.0	259.8	263.4
80°	190.7	187.9	189.9	190.3	193.1
82.5°	128.9	126.5	129.3	127.3	129.7
85°	74.3	72.3	73.1	72.3	73.5
87.5°	29.3	27.7	28.1	26.5	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)