

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: P835664

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3STD-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835664
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-40-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

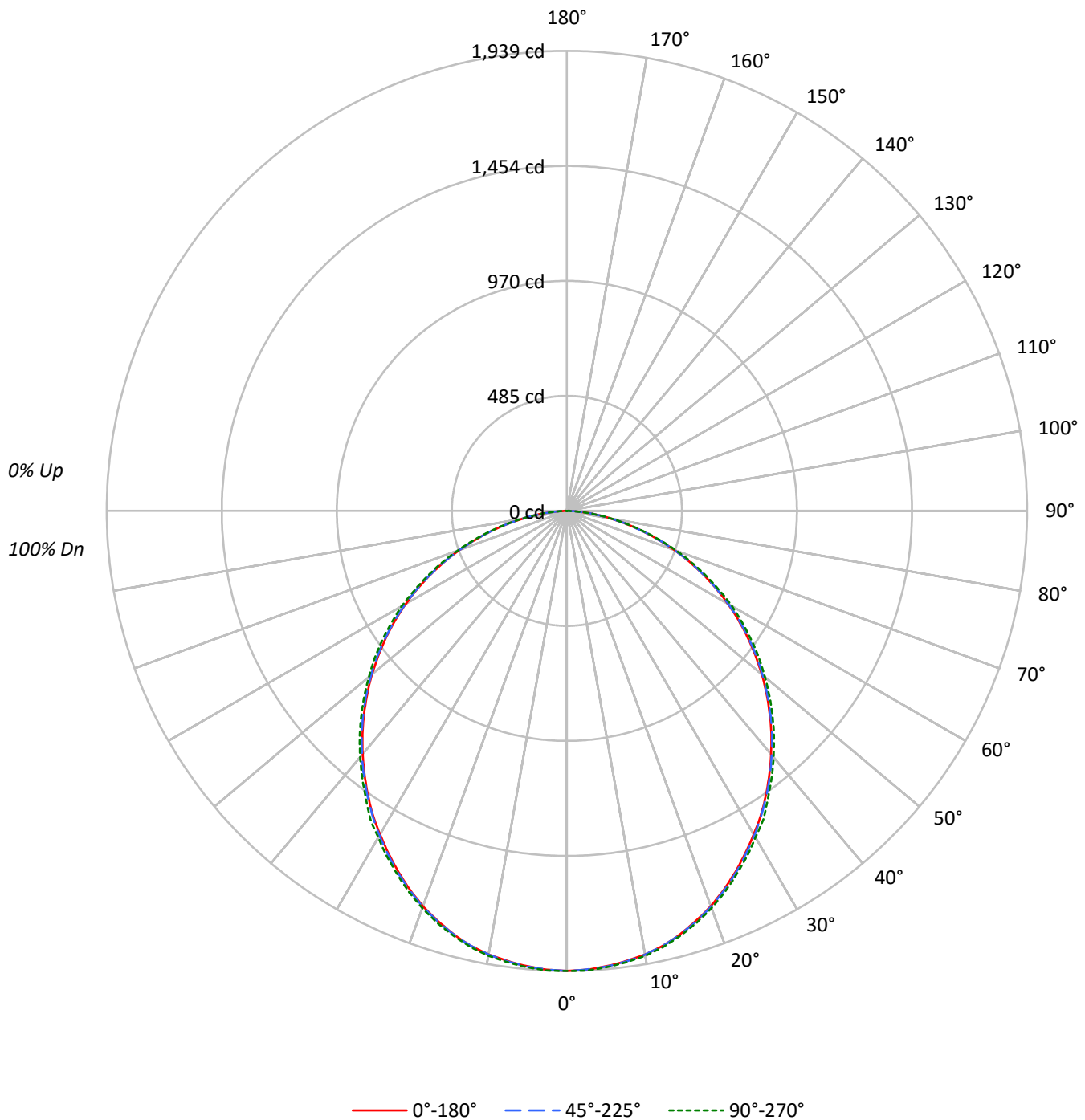
Lumens per Lamp: N/A
Luminaire Lumens: 5239.4 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
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°	5204	5209	5215
10°	5188	5189	5204
15°	5145	5148	5163
20°	5078	5084	5102
25°	4986	4998	5021
30°	4892	4909	4938
35°	4803	4815	4853
40°	4702	4717	4760
45°	4599	4618	4666
50°	4487	4508	4559
55°	4360	4381	4452
60°	4215	4232	4328
65°	4031	4044	4120
70°	3784	3787	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°	775.9	14.8
30°-40°	917.6	17.5
40°-50°	936.7	17.9
50°-60°	836.0	16.0
60°-70°	629.7	12.0
70°-80°	351.1	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°	1480.3	28.3
0°-40°	2397.9	45.8
0°-60°	4170.6	79.6
0°-90°	5239.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5239.4	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	520
25°	1679	1681	1683	1688	1691	774
35°	1462	1460	1466	1471	1477	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°	1939.0	1939.0	1939.0	1939.0	1939.0
2.5°	1935.8	1939.0	1935.0	1935.8	1939.4
5°	1926.6	1930.2	1928.2	1928.6	1930.6
7.5°	1913.7	1918.5	1915.7	1916.5	1918.5
10°	1898.5	1902.1	1898.9	1900.9	1904.5
12.5°	1876.8	1878.4	1876.8	1877.6	1881.6
15°	1846.7	1848.7	1847.9	1849.5	1853.1
17.5°	1811.3	1813.8	1813.3	1816.6	1819.4
20°	1773.2	1773.6	1775.2	1778.4	1781.6
22.5°	1728.2	1729.4	1731.1	1735.5	1738.7
25°	1679.3	1681.3	1683.3	1687.7	1690.9
27.5°	1627.5	1629.5	1632.3	1637.1	1642.3
30°	1574.5	1574.5	1579.7	1584.5	1589.3
32.5°	1521.1	1519.1	1523.9	1529.9	1541.6
35°	1462.1	1460.5	1465.7	1471.3	1477.3
37.5°	1400.7	1399.5	1405.5	1411.5	1417.1
40°	1338.4	1336.8	1342.8	1348.9	1354.9
42.5°	1274.6	1273.8	1279.4	1285.4	1291.9
45°	1208.4	1208.0	1213.6	1219.6	1226.0
47.5°	1140.9	1140.1	1145.7	1152.2	1157.8
50°	1071.9	1071.1	1076.7	1083.1	1089.1
52.5°	1000.8	1000.8	1006.0	1011.7	1020.9
55°	929.4	928.2	933.8	940.2	949.0
57.5°	857.1	855.5	860.7	867.1	875.2
60°	783.2	781.6	786.4	792.9	804.1
62.5°	708.6	706.2	711.0	717.0	723.8
65°	633.1	630.7	635.1	640.7	647.1
67.5°	557.2	554.4	558.8	563.6	569.7
70°	480.9	478.1	481.3	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°	258.5	255.7	258.9	259.7	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)