

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: P835600

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6LO-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835600
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-LD4-6LO-20-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

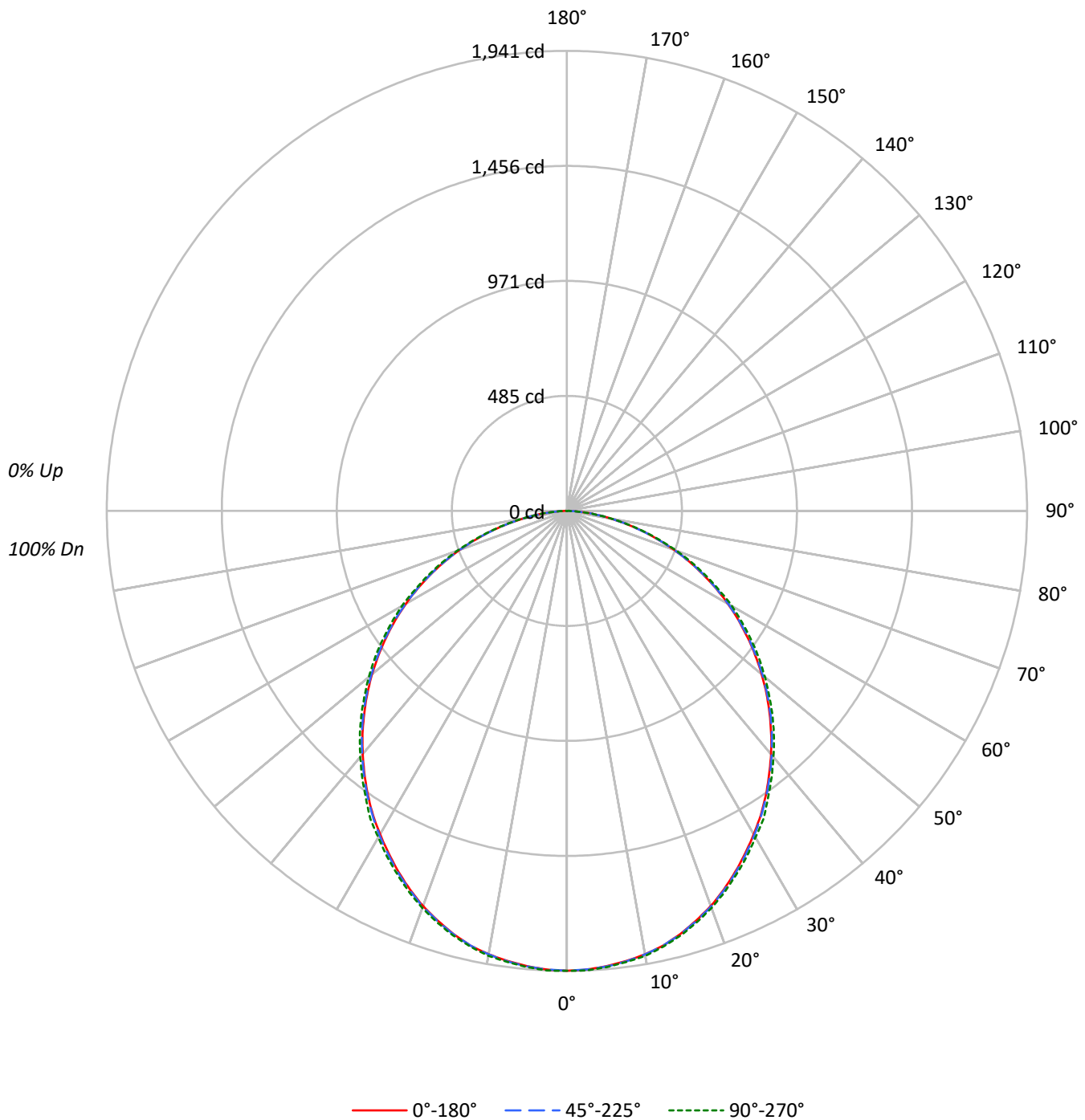
Lumens per Lamp: N/A
Luminaire Lumens: 5243.1 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	5222	5222	5222
5°	5208	5212	5219
10°	5191	5192	5208
15°	5148	5152	5166
20°	5081	5087	5106
25°	4989	5002	5024
30°	4896	4912	4942
35°	4806	4818	4857
40°	4705	4721	4763
45°	4602	4622	4669
50°	4490	4510	4563
55°	4363	4384	4456
60°	4218	4236	4331
65°	4034	4046	4124
70°	3787	3790	3872
75°	3441	3429	3509
80°	2957	2944	2994
85°	2294	2257	2269

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	3.5
10°-20°	521.6	9.9
20°-30°	776.5	14.8
30°-40°	918.2	17.5
40°-50°	937.4	17.9
50°-60°	836.6	16.0
60°-70°	630.1	12.0
70°-80°	351.4	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°	1481.4	28.3
0°-40°	2399.6	45.8
0°-60°	4173.6	79.6
0°-90°	5243.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5243.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1940	1940	1940	1940	1940	
5°	1928	1932	1930	1930	1932	183
15°	1848	1850	1849	1851	1854	521
25°	1680	1682	1684	1689	1692	774
35°	1463	1462	1467	1472	1478	915
45°	1209	1209	1214	1220	1227	933
55°	930	929	934	941	950	831
65°	634	631	636	641	648	627
75°	331	328	330	331	338	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°	1940.4	1940.4	1940.4	1940.4	1940.4
2.5°	1937.1	1940.4	1936.3	1937.1	1940.8
5°	1927.9	1931.5	1929.5	1929.9	1931.9
7.5°	1915.1	1919.9	1917.1	1917.9	1919.9
10°	1899.8	1903.4	1900.2	1902.2	1905.8
12.5°	1878.1	1879.7	1878.1	1878.9	1882.9
15°	1848.0	1850.0	1849.2	1850.8	1854.4
17.5°	1812.6	1815.0	1814.6	1817.8	1820.6
20°	1774.4	1774.8	1776.5	1779.7	1782.9
22.5°	1729.5	1730.7	1732.3	1736.7	1739.9
25°	1680.4	1682.5	1684.5	1688.9	1692.1
27.5°	1628.6	1630.6	1633.4	1638.3	1643.5
30°	1575.6	1575.6	1580.8	1585.6	1590.5
32.5°	1522.2	1520.2	1525.0	1531.0	1542.6
35°	1463.1	1461.5	1466.7	1472.3	1478.4
37.5°	1401.6	1400.4	1406.5	1412.5	1418.1
40°	1339.4	1337.8	1343.8	1349.8	1355.8
42.5°	1275.5	1274.7	1280.3	1286.3	1292.8
45°	1209.2	1208.8	1214.4	1220.5	1226.9
47.5°	1141.7	1140.9	1146.5	1153.0	1158.6
50°	1072.6	1071.8	1077.4	1083.9	1089.9
52.5°	1001.5	1001.5	1006.7	1012.4	1021.6
55°	930.0	928.8	934.4	940.9	949.7
57.5°	857.7	856.1	861.3	867.7	875.8
60°	783.8	782.2	787.0	793.4	804.7
62.5°	709.1	706.6	711.5	717.5	724.3
65°	633.5	631.1	635.5	641.2	647.6
67.5°	557.6	554.8	559.2	564.0	570.1
70°	481.3	478.5	481.7	486.5	492.1
72.5°	405.3	402.5	405.3	407.4	414.2
75°	331.0	328.2	329.8	331.4	337.5
77.5°	258.7	255.9	259.1	259.9	263.5
80°	190.8	188.0	190.0	190.4	193.2
82.5°	129.0	126.5	129.4	127.3	129.8
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)