

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: P835755

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3HI-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835755
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-LD4-3HI-35-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

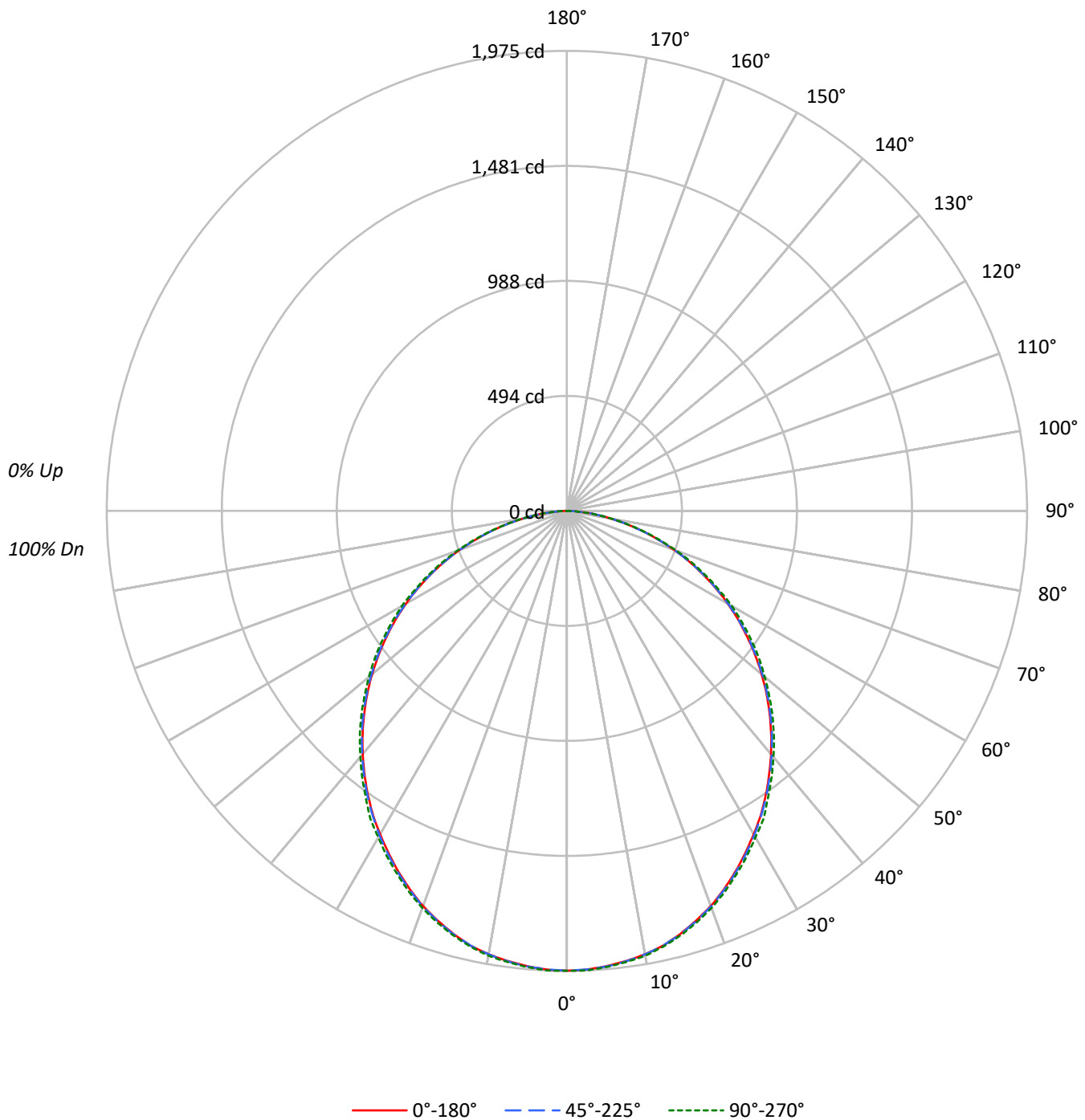
Lumens per Lamp: N/A
Luminaire Lumens: 5334.6 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5313	5313	5313
5°	5299	5303	5310
10°	5282	5283	5299
15°	5238	5242	5256
20°	5170	5176	5195
25°	5077	5089	5112
30°	4981	4998	5028
35°	4890	4902	4941
40°	4787	4803	4846
45°	4682	4702	4751
50°	4569	4590	4642
55°	4439	4460	4533
60°	4292	4309	4406
65°	4104	4117	4195
70°	3853	3856	3939
75°	3502	3489	3569
80°	3009	2996	3047
85°	2334	2297	2309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	3.5
10°-20°	530.7	9.9
20°-30°	790.0	14.8
30°-40°	934.3	17.5
40°-50°	953.7	17.9
50°-60°	851.2	16.0
60°-70°	641.1	12.0
70°-80°	357.5	6.7
80°-90°	89.6	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°	1507.2	28.3
0°-40°	2441.5	45.8
0°-60°	4246.4	79.6
0°-90°	5334.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5334.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1974	1974	1974	1974	1974	
5°	1962	1965	1963	1964	1966	186
15°	1880	1882	1882	1883	1887	530
25°	1710	1712	1714	1718	1722	788
35°	1489	1487	1492	1498	1504	931
45°	1230	1230	1236	1242	1248	949
55°	946	945	951	957	966	846
65°	645	642	647	652	659	638
75°	337	334	336	337	343	357
85°	76	74	74	74	75	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1974.2	1974.2	1974.2	1974.2	1974.2
2.5°	1971.0	1974.2	1970.2	1971.0	1974.6
5°	1961.6	1965.2	1963.2	1963.6	1965.7
7.5°	1948.5	1953.4	1950.5	1951.3	1953.4
10°	1933.0	1936.6	1933.4	1935.4	1939.1
12.5°	1910.9	1912.5	1910.9	1911.7	1915.8
15°	1880.2	1882.3	1881.5	1883.1	1886.8
17.5°	1844.3	1846.7	1846.3	1849.6	1852.4
20°	1805.4	1805.8	1807.5	1810.7	1814.0
22.5°	1759.6	1760.9	1762.5	1767.0	1770.3
25°	1709.8	1711.8	1713.9	1718.4	1721.6
27.5°	1657.1	1659.1	1662.0	1666.9	1672.2
30°	1603.1	1603.1	1608.4	1613.3	1618.2
32.5°	1548.7	1546.7	1551.6	1557.7	1569.6
35°	1488.7	1487.0	1492.3	1498.1	1504.2
37.5°	1426.1	1424.9	1431.0	1437.1	1442.9
40°	1362.8	1361.1	1367.3	1373.4	1379.5
42.5°	1297.8	1296.9	1302.7	1308.8	1315.3
45°	1230.3	1229.9	1235.6	1241.8	1248.3
47.5°	1161.7	1160.8	1166.6	1173.1	1178.8
50°	1091.3	1090.5	1096.3	1102.8	1108.9
52.5°	1019.0	1019.0	1024.3	1030.0	1039.4
55°	946.2	945.0	950.7	957.3	966.3
57.5°	872.7	871.0	876.3	882.9	891.1
60°	797.5	795.8	800.7	807.3	818.7
62.5°	721.4	719.0	723.9	730.0	737.0
65°	644.6	642.1	646.6	652.4	658.9
67.5°	567.3	564.5	569.0	573.9	580.0
70°	489.7	486.8	490.1	495.0	500.7
72.5°	412.4	409.6	412.4	414.5	421.4
75°	336.8	333.9	335.6	337.2	343.3
77.5°	263.2	260.4	263.6	264.5	268.1
80°	194.2	191.3	193.3	193.7	196.6
82.5°	131.2	128.8	131.6	129.6	132.0
85°	75.6	73.6	74.4	73.6	74.8
87.5°	29.8	28.2	28.6	27.0	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)