

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: P834975

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1HI-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834975
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-1HI-30-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

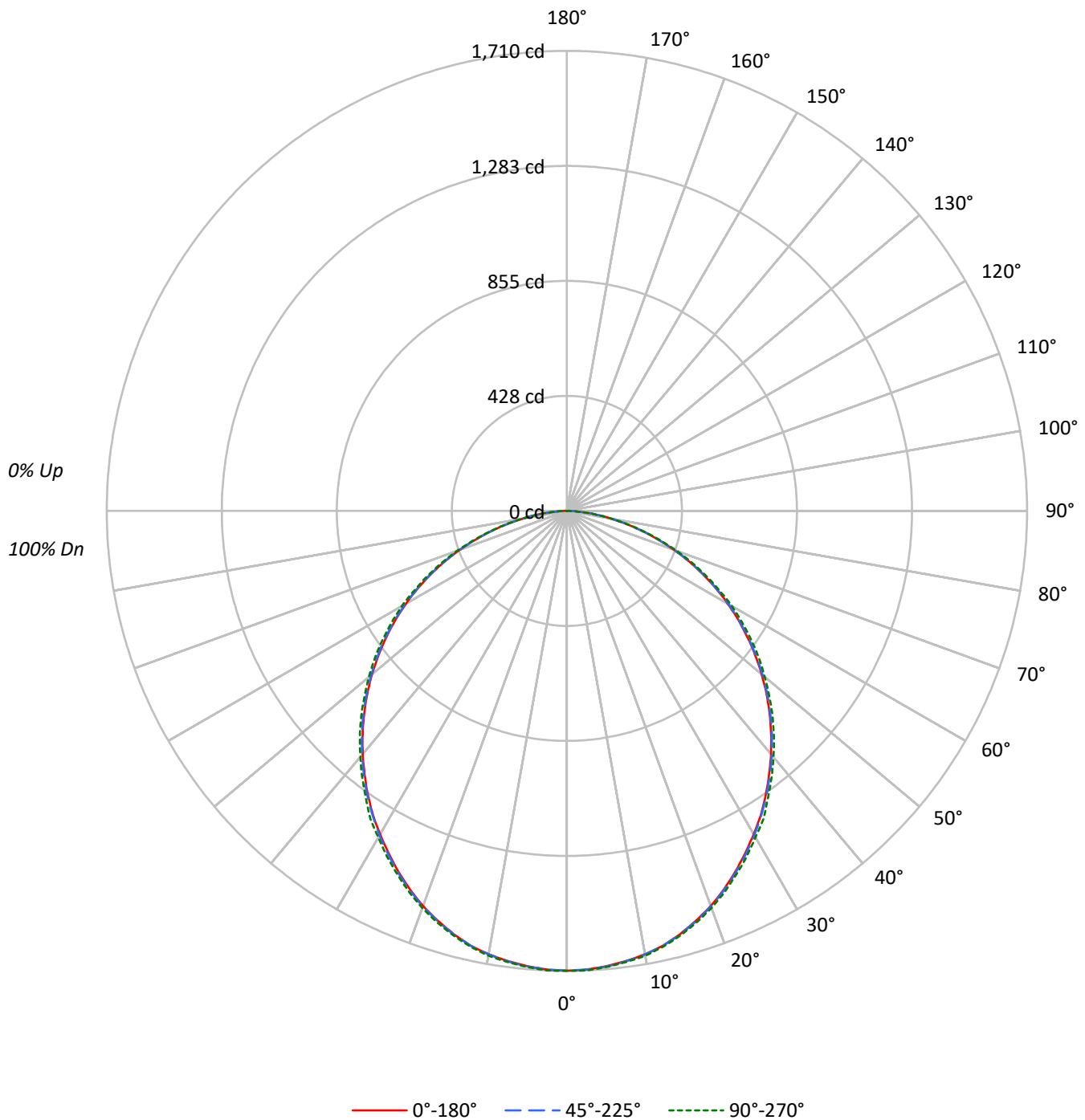
Lumens per Lamp: N/A
Luminaire Lumens: 4618.8 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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

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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	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2300	2300	2300
5°	2294	2296	2299
10°	2287	2287	2294
15°	2268	2269	2276
20°	2238	2241	2249
25°	2198	2203	2213
30°	2156	2164	2177
35°	2117	2122	2139
40°	2072	2079	2098
45°	2027	2036	2057
50°	1978	1987	2010
55°	1922	1931	1962
60°	1858	1866	1907
65°	1777	1783	1816
70°	1668	1669	1705
75°	1516	1510	1546
80°	1303	1297	1319
85°	1011	994	1000

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	3.5
10°-20°	459.5	9.9
20°-30°	684.0	14.8
30°-40°	808.9	17.5
40°-50°	825.8	17.9
50°-60°	736.9	16.0
60°-70°	555.1	12.0
70°-80°	309.5	6.7
80°-90°	77.6	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°	1305.0	28.3
0°-40°	2113.9	45.8
0°-60°	3676.6	79.6
0°-90°	4618.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4618.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1709	1709	1709	1709	1709	
5°	1698	1702	1700	1700	1702	161
15°	1628	1630	1629	1630	1634	459
25°	1480	1482	1484	1488	1491	682
35°	1289	1288	1292	1297	1302	806
45°	1065	1065	1070	1075	1081	822
55°	819	818	823	829	837	732
65°	558	556	560	565	570	552
75°	292	289	290	292	297	309
85°	66	64	64	64	65	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1709.3	1709.3	1709.3	1709.3	1709.3
2.5°	1706.5	1709.3	1705.8	1706.5	1709.7
5°	1698.3	1701.5	1699.8	1700.1	1701.9
7.5°	1687.0	1691.3	1688.8	1689.5	1691.3
10°	1673.6	1676.7	1673.9	1675.7	1678.9
12.5°	1654.5	1655.9	1654.5	1655.2	1658.7
15°	1627.9	1629.7	1629.0	1630.4	1633.6
17.5°	1596.8	1598.9	1598.5	1601.4	1603.8
20°	1563.1	1563.5	1564.9	1567.7	1570.6
22.5°	1523.5	1524.6	1526.0	1529.9	1532.7
25°	1480.3	1482.1	1483.9	1487.8	1490.6
27.5°	1434.7	1436.5	1438.9	1443.2	1447.8
30°	1388.0	1388.0	1392.6	1396.8	1401.1
32.5°	1340.9	1339.1	1343.4	1348.7	1359.0
35°	1288.9	1287.5	1292.1	1297.0	1302.3
37.5°	1234.7	1233.7	1239.0	1244.3	1249.2
40°	1179.9	1178.5	1183.8	1189.1	1194.4
42.5°	1123.6	1122.9	1127.9	1133.2	1138.8
45°	1065.2	1064.9	1069.8	1075.1	1080.8
47.5°	1005.8	1005.1	1010.0	1015.7	1020.6
50°	944.9	944.2	949.1	954.8	960.1
52.5°	882.3	882.3	886.9	891.8	900.0
55°	819.3	818.2	823.2	828.8	836.6
57.5°	755.6	754.1	758.7	764.4	771.5
60°	690.4	689.0	693.3	698.9	708.8
62.5°	624.6	622.5	626.7	632.1	638.1
65°	558.1	556.0	559.9	564.8	570.5
67.5°	491.2	488.7	492.6	496.9	502.2
70°	424.0	421.5	424.3	428.6	433.5
72.5°	357.1	354.6	357.1	358.8	364.9
75°	291.6	289.1	290.5	292.0	297.3
77.5°	227.9	225.4	228.3	229.0	232.2
80°	168.1	165.6	167.4	167.7	170.2
82.5°	113.6	111.5	114.0	112.2	114.3
85°	65.5	63.7	64.4	63.7	64.8
87.5°	25.8	24.4	24.8	23.4	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)