

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: P835647

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835647
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
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

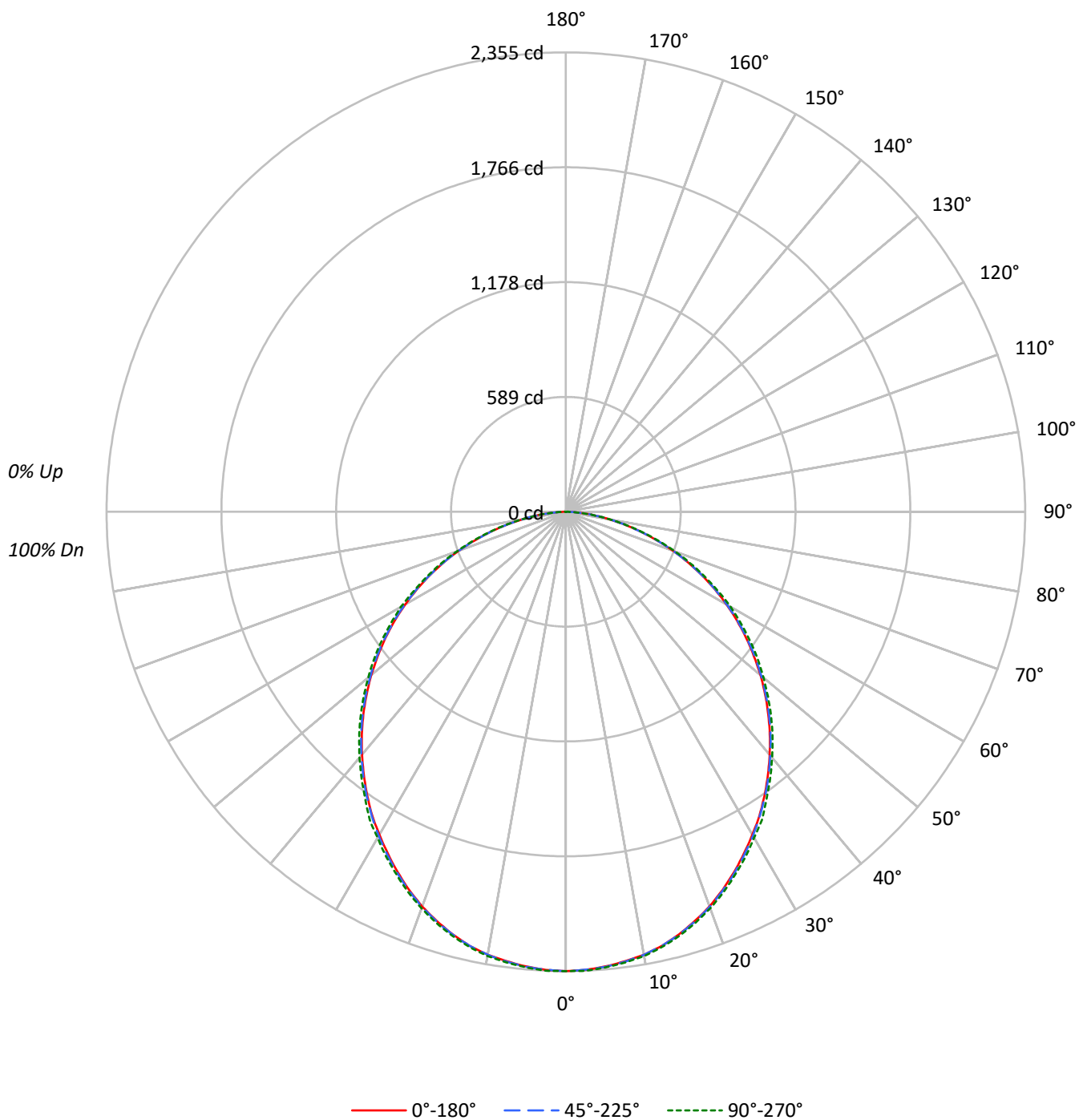
Lumens per Lamp: N/A
Luminaire Lumens: 6363.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P835647

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-3HI-35-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835647

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-3HI-35-120-EDD

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°	6337	6337	6337
5°	6320	6326	6333
10°	6300	6301	6320
15°	6248	6252	6270
20°	6167	6174	6196
25°	6055	6070	6097
30°	5941	5961	5998
35°	5833	5847	5894
40°	5710	5729	5780
45°	5585	5609	5666
50°	5449	5474	5537
55°	5295	5320	5407
60°	5119	5140	5255
65°	4895	4911	5004
70°	4596	4600	4699
75°	4177	4162	4258
80°	3589	3574	3634
85°	2785	2739	2754

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835647

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-3HI-35-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.5	3.5
10°-20°	633.0	9.9
20°-30°	942.3	14.8
30°-40°	1114.4	17.5
40°-50°	1137.6	17.9
50°-60°	1015.2	16.0
60°-70°	764.7	12.0
70°-80°	426.4	6.7
80°-90°	106.8	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°	1797.8	28.3
0°-40°	2912.1	45.8
0°-60°	5065.0	79.6
0°-90°	6363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6363.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2355	2355	2355	2355	2355	
5°	2340	2344	2342	2342	2345	222
15°	2243	2245	2244	2246	2250	632
25°	2039	2042	2044	2050	2054	940
35°	1776	1774	1780	1787	1794	1110
45°	1468	1467	1474	1481	1489	1132
55°	1129	1127	1134	1142	1152	1009
65°	769	766	771	778	786	760
75°	402	398	400	402	410	426
85°	90	88	89	88	89	108
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835647

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-3HI-35-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2354.8	2354.8	2354.8	2354.8	2354.8
2.5°	2350.9	2354.8	2349.9	2350.9	2355.3
5°	2339.7	2344.1	2341.7	2342.1	2344.6
7.5°	2324.1	2330.0	2326.5	2327.5	2330.0
10°	2305.6	2310.0	2306.1	2308.5	2312.9
12.5°	2279.2	2281.2	2279.2	2280.2	2285.1
15°	2242.7	2245.1	2244.1	2246.1	2250.5
17.5°	2199.8	2202.7	2202.2	2206.1	2209.5
20°	2153.5	2153.9	2155.9	2159.8	2163.7
22.5°	2098.9	2100.3	2102.3	2107.6	2111.5
25°	2039.4	2041.8	2044.3	2049.6	2053.5
27.5°	1976.5	1978.9	1982.3	1988.2	1994.5
30°	1912.1	1912.1	1918.5	1924.3	1930.2
32.5°	1847.3	1844.8	1850.7	1858.0	1872.2
35°	1775.6	1773.7	1780.0	1786.8	1794.1
37.5°	1701.0	1699.6	1706.9	1714.2	1721.0
40°	1625.5	1623.5	1630.8	1638.1	1645.4
42.5°	1547.9	1547.0	1553.8	1561.1	1568.9
45°	1467.5	1467.0	1473.8	1481.1	1488.9
47.5°	1385.6	1384.6	1391.4	1399.2	1406.1
50°	1301.7	1300.8	1307.6	1315.4	1322.7
52.5°	1215.4	1215.4	1221.8	1228.6	1239.8
55°	1128.7	1127.2	1134.0	1141.8	1152.5
57.5°	1040.9	1038.9	1045.3	1053.1	1062.8
60°	951.2	949.2	955.1	962.9	976.5
62.5°	860.5	857.6	863.4	870.7	879.0
65°	768.8	765.9	771.3	778.1	785.9
67.5°	676.7	673.3	678.7	684.5	691.8
70°	584.1	580.7	584.6	590.4	597.2
72.5°	491.9	488.5	491.9	494.4	502.7
75°	401.7	398.3	400.3	402.2	409.5
77.5°	314.0	310.6	314.5	315.4	319.8
80°	231.6	228.2	230.6	231.1	234.5
82.5°	156.5	153.6	157.0	154.6	157.5
85°	90.2	87.8	88.7	87.8	89.2
87.5°	35.6	33.6	34.1	32.2	32.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)