

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: P835630

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4LO-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835630
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-LD4-4LO-30-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

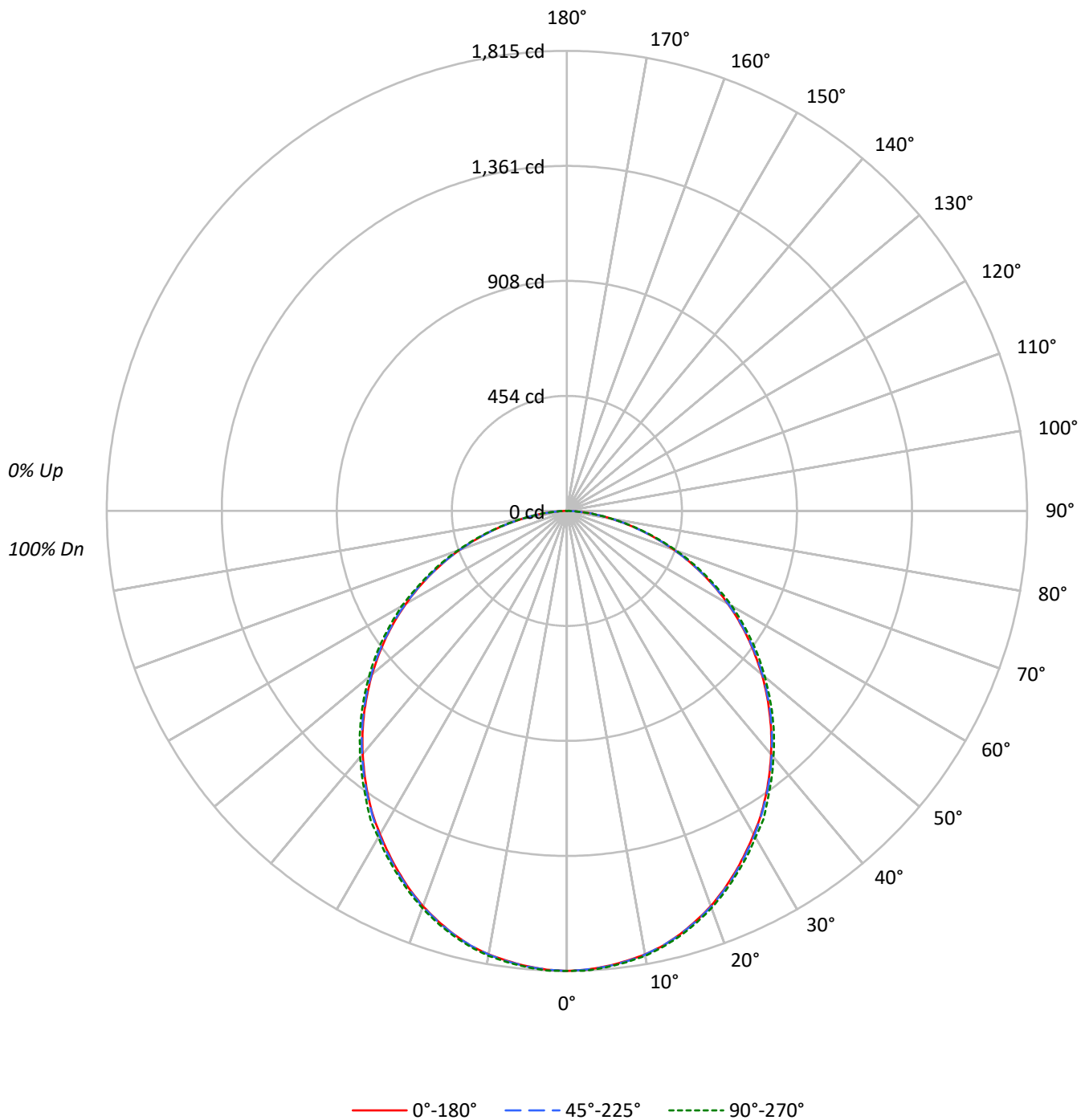
Lumens per Lamp: N/A
Luminaire Lumens: 4903.9 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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: P835630

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-4LO-30-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835630

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-4LO-30-120-EDD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10		0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102		100
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90	88	86		84
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79	76	72		70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70	65	61		59
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62	57	53		51
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56	51	46		44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51	45	40		38
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47	41	36		34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43	37	32		30
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40	34	29		27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4884	4884	4884
5°	4871	4875	4881
10°	4855	4856	4871
15°	4815	4819	4832
20°	4753	4758	4775
25°	4667	4678	4699
30°	4579	4594	4622
35°	4496	4506	4542
40°	4401	4415	4455
45°	4304	4323	4367
50°	4200	4219	4268
55°	4081	4100	4168
60°	3946	3962	4050
65°	3773	3785	3857
70°	3541	3544	3622
75°	3219	3208	3281
80°	2766	2754	2800
85°	2146	2112	2124

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835630

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-4LO-30-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.5	3.5
10°-20°	487.8	9.9
20°-30°	726.2	14.8
30°-40°	858.8	17.5
40°-50°	876.8	17.9
50°-60°	782.5	16.0
60°-70°	589.3	12.0
70°-80°	328.7	6.7
80°-90°	82.3	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°	1385.6	28.3
0°-40°	2244.4	45.8
0°-60°	3903.6	79.6
0°-90°	4903.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4903.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1815	1815	1815	1815	1815	
5°	1803	1807	1805	1805	1807	171
15°	1728	1730	1730	1731	1734	487
25°	1572	1574	1576	1580	1583	724
35°	1368	1367	1372	1377	1383	856
45°	1131	1131	1136	1142	1148	872
55°	870	869	874	880	888	778
65°	593	590	594	600	606	586
75°	310	307	308	310	316	328
85°	70	68	68	68	69	83
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835630

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-4LO-30-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1814.9	1814.9	1814.9	1814.9	1814.9
2.5°	1811.8	1814.9	1811.1	1811.8	1815.2
5°	1803.2	1806.6	1804.7	1805.1	1807.0
7.5°	1791.2	1795.7	1793.1	1793.8	1795.7
10°	1776.9	1780.3	1777.3	1779.2	1782.5
12.5°	1756.6	1758.1	1756.6	1757.4	1761.1
15°	1728.4	1730.3	1729.6	1731.1	1734.4
17.5°	1695.4	1697.6	1697.2	1700.3	1702.9
20°	1659.7	1660.0	1661.6	1664.6	1667.6
22.5°	1617.6	1618.7	1620.2	1624.4	1627.4
25°	1571.7	1573.6	1575.5	1579.6	1582.6
27.5°	1523.3	1525.2	1527.8	1532.3	1537.2
30°	1473.7	1473.7	1478.6	1483.1	1487.6
32.5°	1423.7	1421.8	1426.3	1432.0	1442.9
35°	1368.5	1367.0	1371.8	1377.1	1382.7
37.5°	1311.0	1309.9	1315.5	1321.1	1326.4
40°	1252.7	1251.2	1256.9	1262.5	1268.1
42.5°	1193.0	1192.2	1197.5	1203.1	1209.2
45°	1131.0	1130.6	1135.9	1141.5	1147.5
47.5°	1067.9	1067.1	1072.4	1078.4	1083.7
50°	1003.2	1002.5	1007.8	1013.8	1019.4
52.5°	936.7	936.7	941.6	946.9	955.5
55°	869.9	868.7	874.0	880.0	888.3
57.5°	802.2	800.7	805.6	811.6	819.1
60°	733.1	731.6	736.1	742.1	752.6
62.5°	663.2	660.9	665.4	671.1	677.5
65°	592.6	590.3	594.4	599.7	605.7
67.5°	521.5	518.9	523.0	527.5	533.2
70°	450.1	447.5	450.5	455.0	460.3
72.5°	379.1	376.5	379.1	381.0	387.4
75°	309.6	307.0	308.5	310.0	315.6
77.5°	242.0	239.4	242.4	243.1	246.5
80°	178.5	175.8	177.7	178.1	180.7
82.5°	120.6	118.4	121.0	119.1	121.4
85°	69.5	67.6	68.4	67.6	68.8
87.5°	27.4	25.9	26.3	24.8	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)