

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: P835651

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5LO-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835651
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-LD4-5LO-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

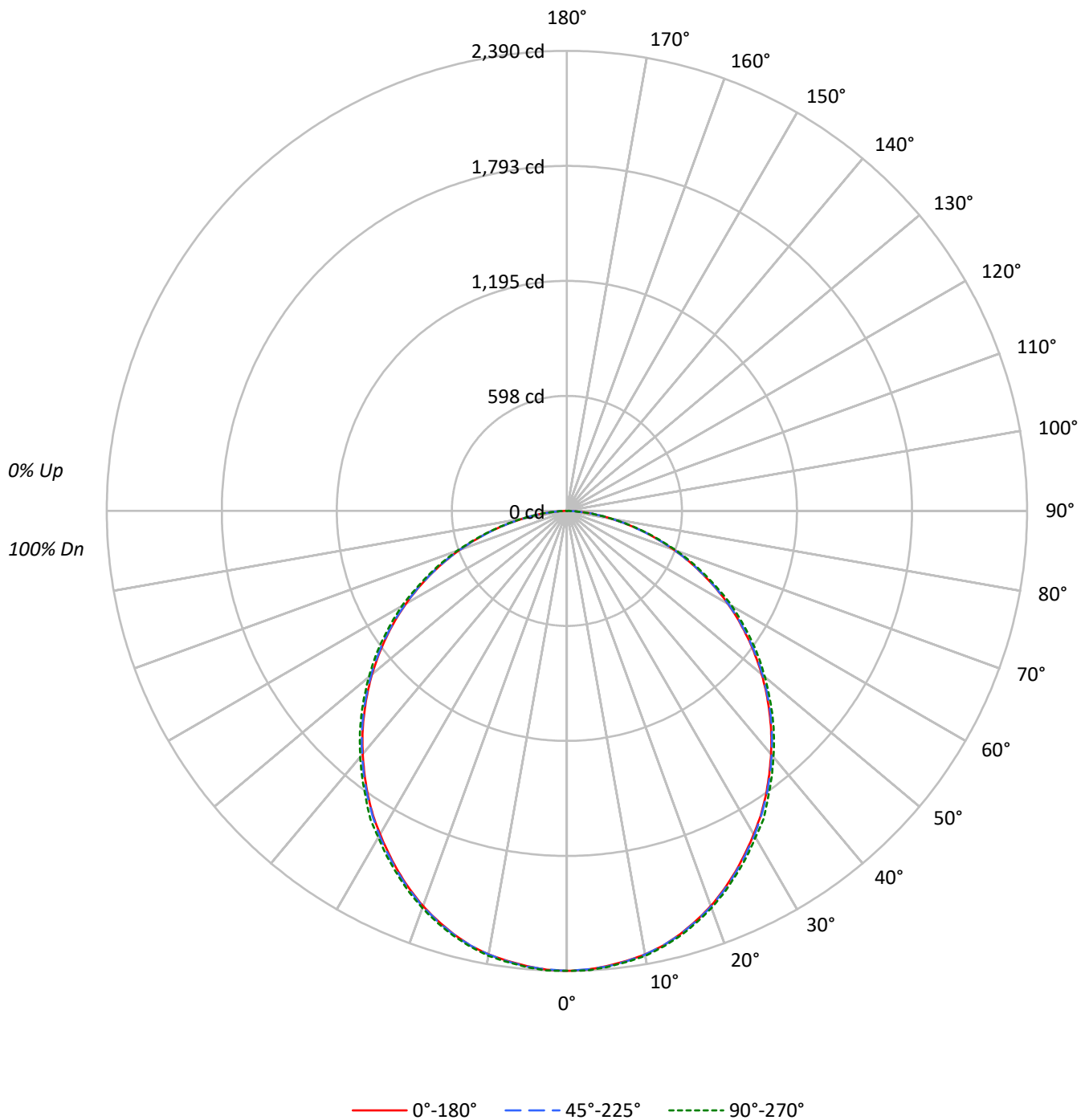
Lumens per Lamp: N/A
Luminaire Lumens: 6456.5 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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: P835651

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-5LO-35-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835651

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-5LO-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°	6430	6430	6430
5°	6413	6418	6426
10°	6393	6394	6413
15°	6340	6344	6362
20°	6257	6265	6287
25°	6144	6159	6187
30°	6029	6049	6086
35°	5919	5934	5980
40°	5794	5813	5865
45°	5667	5691	5750
50°	5530	5555	5619
55°	5373	5399	5487
60°	5195	5216	5333
65°	4967	4983	5078
70°	4663	4667	4768
75°	4238	4223	4321
80°	3642	3626	3688
85°	2825	2779	2794

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835651

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-5LO-35-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.8	3.5
10°-20°	642.3	9.9
20°-30°	956.1	14.8
30°-40°	1130.7	17.5
40°-50°	1154.3	17.9
50°-60°	1030.2	16.0
60°-70°	775.9	12.0
70°-80°	432.7	6.7
80°-90°	108.4	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°	1824.2	28.3
0°-40°	2954.9	45.8
0°-60°	5139.4	79.6
0°-90°	6456.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6456.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2389	2389	2389	2389	2389	
5°	2374	2378	2376	2377	2379	226
15°	2276	2278	2277	2279	2284	641
25°	2069	2072	2074	2080	2084	953
35°	1802	1800	1806	1813	1820	1127
45°	1489	1489	1496	1503	1511	1149
55°	1145	1144	1151	1159	1170	1024
65°	780	777	783	790	798	772
75°	408	404	406	408	416	432
85°	92	89	90	89	90	110
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835651

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-5LO-35-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2389.4	2389.4	2389.4	2389.4	2389.4
2.5°	2385.5	2389.4	2384.5	2385.5	2389.9
5°	2374.1	2378.5	2376.1	2376.6	2379.0
7.5°	2358.3	2364.2	2360.7	2361.7	2364.2
10°	2339.5	2343.9	2340.0	2342.4	2346.9
12.5°	2312.7	2314.7	2312.7	2313.7	2318.7
15°	2275.6	2278.1	2277.1	2279.1	2283.6
17.5°	2232.1	2235.1	2234.6	2238.5	2242.0
20°	2185.1	2185.6	2187.6	2191.5	2195.5
22.5°	2129.7	2131.2	2133.2	2138.6	2142.6
25°	2069.3	2071.8	2074.3	2079.7	2083.7
27.5°	2005.5	2008.0	2011.5	2017.4	2023.8
30°	1940.2	1940.2	1946.7	1952.6	1958.5
32.5°	1874.4	1872.0	1877.9	1885.3	1899.7
35°	1801.7	1799.7	1806.2	1813.1	1820.5
37.5°	1726.0	1724.5	1732.0	1739.4	1746.3
40°	1649.3	1647.4	1654.8	1662.2	1669.6
42.5°	1570.7	1569.7	1576.6	1584.0	1592.0
45°	1489.1	1488.6	1495.5	1502.9	1510.8
47.5°	1405.9	1405.0	1411.9	1419.8	1426.7
50°	1320.9	1319.9	1326.8	1334.7	1342.1
52.5°	1233.3	1233.3	1239.7	1246.7	1258.0
55°	1145.2	1143.8	1150.7	1158.6	1169.5
57.5°	1056.2	1054.2	1060.6	1068.6	1078.5
60°	965.2	963.2	969.1	977.0	990.9
62.5°	873.2	870.2	876.1	883.5	892.0
65°	780.1	777.2	782.6	789.5	797.5
67.5°	686.6	683.2	688.6	694.6	702.0
70°	592.7	589.2	593.2	599.1	606.0
72.5°	499.2	495.7	499.2	501.6	510.0
75°	407.6	404.2	406.2	408.1	415.6
77.5°	318.6	315.1	319.1	320.1	324.5
80°	235.0	231.5	234.0	234.5	238.0
82.5°	158.8	155.8	159.3	156.8	159.8
85°	91.5	89.0	90.0	89.0	90.5
87.5°	36.1	34.1	34.6	32.7	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)