

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: P835762

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6LO-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835762
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-LD4-6LO-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

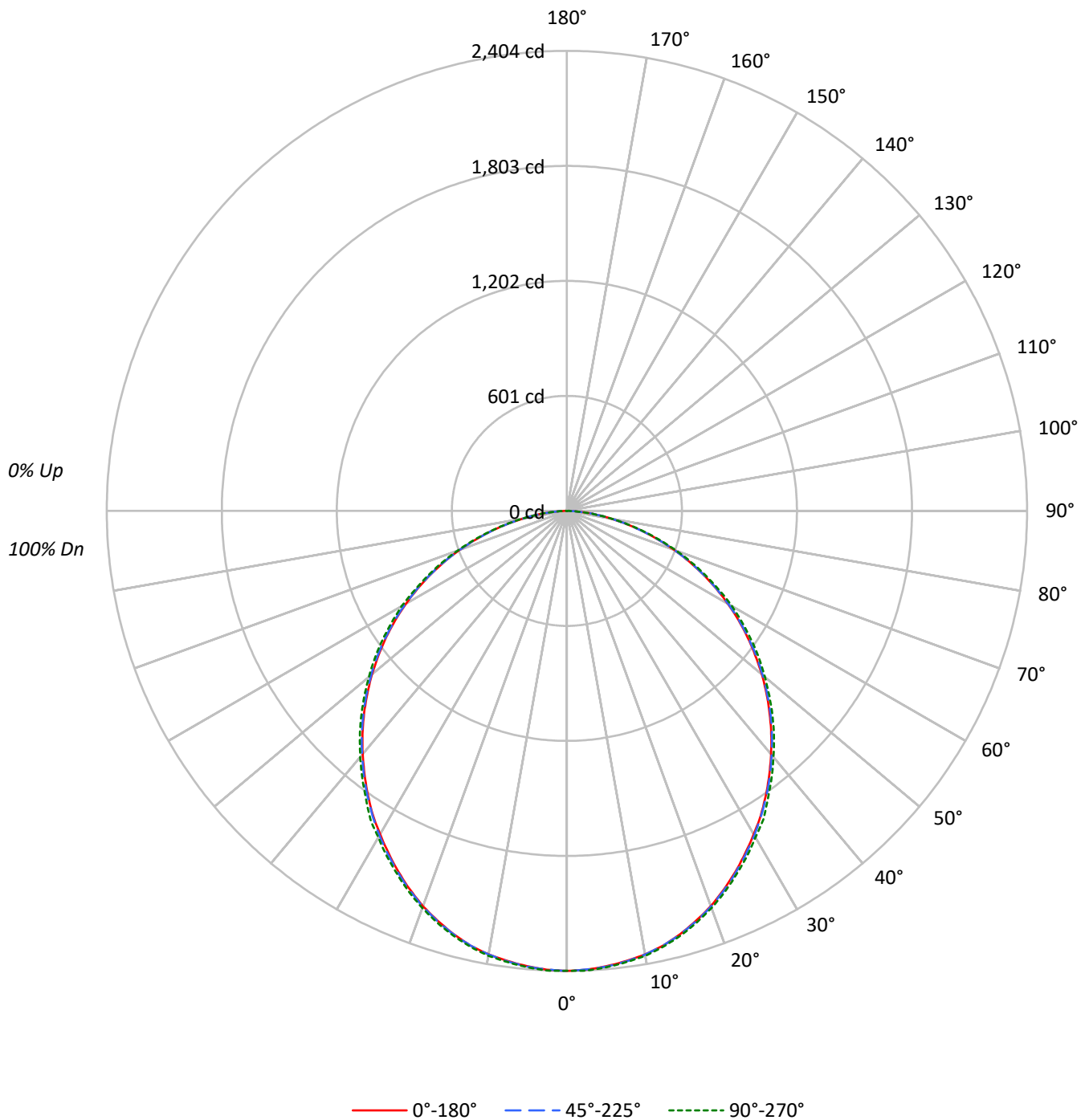
Lumens per Lamp: N/A
Luminaire Lumens: 6495.2 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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: P835762

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-6LO-35-120-EDD-90

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835762

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-6LO-35-120-EDD-90

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°	6468	6468	6468
5°	6451	6457	6465
10°	6431	6432	6451
15°	6378	6382	6400
20°	6295	6302	6325
25°	6181	6196	6224
30°	6065	6085	6122
35°	5954	5969	6016
40°	5828	5848	5900
45°	5701	5725	5784
50°	5563	5588	5653
55°	5405	5431	5520
60°	5225	5247	5365
65°	4997	5013	5108
70°	4691	4695	4796
75°	4264	4248	4346
80°	3663	3648	3710
85°	2844	2797	2813

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835762

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-6LO-35-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.1	3.5
10°-20°	646.1	9.9
20°-30°	961.9	14.8
30°-40°	1137.5	17.5
40°-50°	1161.2	17.9
50°-60°	1036.3	16.0
60°-70°	780.6	12.0
70°-80°	435.3	6.7
80°-90°	109.1	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°	1835.1	28.3
0°-40°	2972.7	45.8
0°-60°	5170.2	79.6
0°-90°	6495.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6495.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2404	2404	2404	2404	2404	
5°	2388	2393	2390	2391	2393	227
15°	2289	2292	2291	2293	2297	645
25°	2082	2084	2087	2092	2096	959
35°	1812	1810	1817	1824	1831	1133
45°	1498	1498	1504	1512	1520	1156
55°	1152	1151	1158	1166	1176	1030
65°	785	782	787	794	802	776
75°	410	407	409	411	418	435
85°	92	90	91	90	91	111
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835762

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-6LO-35-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2403.7	2403.7	2403.7	2403.7	2403.7
2.5°	2399.8	2403.7	2398.8	2399.8	2404.2
5°	2388.3	2392.8	2390.3	2390.8	2393.3
7.5°	2372.4	2378.4	2374.9	2375.9	2378.4
10°	2353.5	2357.9	2354.0	2356.5	2360.9
12.5°	2326.6	2328.6	2326.6	2327.6	2332.6
15°	2289.3	2291.8	2290.8	2292.8	2297.2
17.5°	2245.5	2248.5	2248.0	2251.9	2255.4
20°	2198.2	2198.7	2200.7	2204.7	2208.6
22.5°	2142.5	2143.9	2145.9	2151.4	2155.4
25°	2081.7	2084.2	2086.7	2092.2	2096.2
27.5°	2017.5	2020.0	2023.5	2029.5	2036.0
30°	1951.9	1951.9	1958.3	1964.3	1970.3
32.5°	1885.7	1883.2	1889.1	1896.6	1911.0
35°	1812.5	1810.5	1817.0	1823.9	1831.4
37.5°	1736.4	1734.9	1742.3	1749.8	1756.8
40°	1659.2	1657.2	1664.7	1672.2	1679.6
42.5°	1580.1	1579.1	1586.1	1593.5	1601.5
45°	1498.0	1497.5	1504.4	1511.9	1519.9
47.5°	1414.4	1413.4	1420.3	1428.3	1435.3
50°	1328.8	1327.8	1334.7	1342.7	1350.2
52.5°	1240.7	1240.7	1247.2	1254.1	1265.6
55°	1152.1	1150.6	1157.6	1165.5	1176.5
57.5°	1062.5	1060.5	1067.0	1075.0	1084.9
60°	970.9	969.0	974.9	982.9	996.8
62.5°	878.4	875.4	881.4	888.8	897.3
65°	784.8	781.8	787.3	794.3	802.2
67.5°	690.8	687.3	692.8	698.7	706.2
70°	596.2	592.7	596.7	602.7	609.6
72.5°	502.1	498.7	502.1	504.6	513.1
75°	410.1	406.6	408.6	410.6	418.0
77.5°	320.5	317.0	321.0	322.0	326.5
80°	236.4	232.9	235.4	235.9	239.4
82.5°	159.8	156.8	160.2	157.8	160.7
85°	92.1	89.6	90.6	89.6	91.1
87.5°	36.3	34.3	34.8	32.8	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)