

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: P835123

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3LO-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835123
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-LD4-3LO-40-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

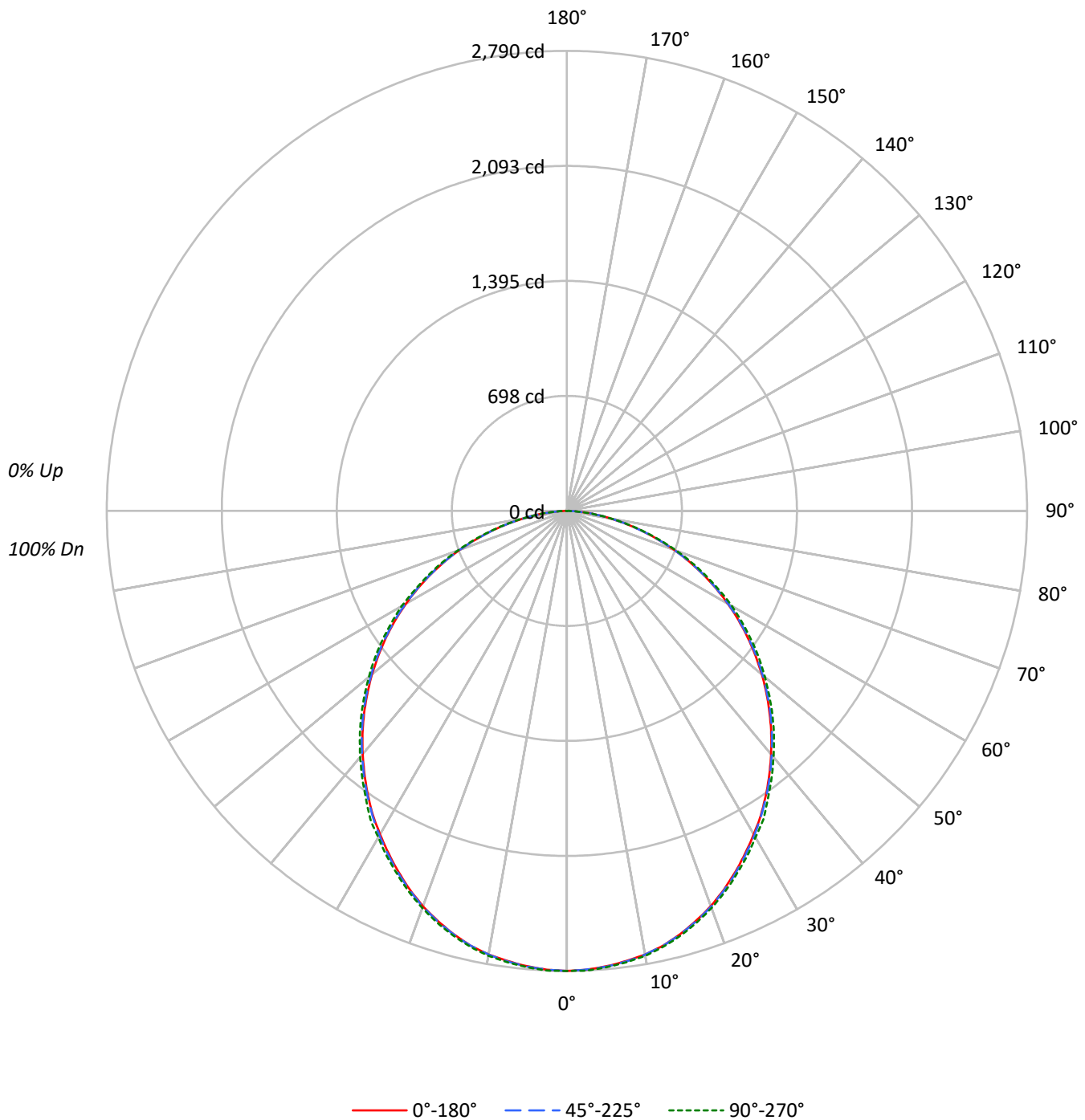
Lumens per Lamp: N/A
Luminaire Lumens: 7538.4 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3754	3754	3754
5°	3744	3747	3752
10°	3732	3733	3744
15°	3701	3703	3714
20°	3653	3657	3670
25°	3587	3596	3612
30°	3520	3531	3553
35°	3455	3464	3491
40°	3382	3394	3424
45°	3308	3322	3357
50°	3228	3243	3280
55°	3137	3152	3203
60°	3032	3045	3113
65°	2900	2909	2964
70°	2722	2724	2784
75°	2474	2465	2522
80°	2126	2117	2152
85°	1650	1623	1632

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.6	3.5
10°-20°	749.9	9.9
20°-30°	1116.4	14.8
30°-40°	1320.2	17.5
40°-50°	1347.8	17.9
50°-60°	1202.8	16.0
60°-70°	905.9	12.0
70°-80°	505.2	6.7
80°-90°	126.6	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°	2129.9	28.3
0°-40°	3450.1	45.8
0°-60°	6000.7	79.6
0°-90°	7538.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7538.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2790	2790	2790	2790	2790	
5°	2772	2777	2774	2775	2778	263
15°	2657	2660	2659	2661	2666	749
25°	2416	2419	2422	2428	2433	1113
35°	2104	2101	2109	2117	2126	1315
45°	1739	1738	1746	1755	1764	1341
55°	1337	1335	1344	1353	1365	1195
65°	911	907	914	922	931	901
75°	476	472	474	476	485	505
85°	107	104	105	104	106	128
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2789.8	2789.8	2789.8	2789.8	2789.8
2.5°	2785.2	2789.8	2784.0	2785.2	2790.4
5°	2771.9	2777.1	2774.2	2774.8	2777.7
7.5°	2753.4	2760.4	2756.3	2757.5	2760.4
10°	2731.5	2736.7	2732.1	2734.9	2740.1
12.5°	2700.3	2702.6	2700.3	2701.4	2707.2
15°	2657.0	2659.9	2658.7	2661.0	2666.2
17.5°	2606.1	2609.6	2609.0	2613.6	2617.7
20°	2551.3	2551.8	2554.2	2558.8	2563.4
22.5°	2486.6	2488.3	2490.6	2497.0	2501.6
25°	2416.1	2419.0	2421.9	2428.2	2432.9
27.5°	2341.6	2344.5	2348.5	2355.5	2363.0
30°	2265.4	2265.4	2272.9	2279.8	2286.7
32.5°	2188.5	2185.6	2192.6	2201.2	2218.0
35°	2103.6	2101.3	2108.8	2116.9	2125.6
37.5°	2015.3	2013.5	2022.2	2030.8	2038.9
40°	1925.7	1923.4	1932.1	1940.7	1949.4
42.5°	1833.9	1832.7	1840.8	1849.5	1858.7
45°	1738.6	1738.0	1746.1	1754.8	1764.0
47.5°	1641.5	1640.4	1648.5	1657.7	1665.8
50°	1542.2	1541.0	1549.1	1558.4	1567.0
52.5°	1440.0	1440.0	1447.5	1455.6	1468.8
55°	1337.1	1335.4	1343.5	1352.7	1365.4
57.5°	1233.2	1230.9	1238.4	1247.6	1259.2
60°	1126.9	1124.6	1131.5	1140.8	1156.9
62.5°	1019.5	1016.0	1022.9	1031.6	1041.4
65°	910.9	907.4	913.8	921.9	931.1
67.5°	801.7	797.7	804.0	811.0	819.6
70°	692.0	687.9	692.5	699.5	707.6
72.5°	582.8	578.8	582.8	585.7	595.5
75°	475.9	471.9	474.2	476.5	485.2
77.5°	372.0	367.9	372.6	373.7	378.9
80°	274.4	270.3	273.2	273.8	277.8
82.5°	185.4	181.9	186.0	183.1	186.6
85°	106.9	104.0	105.1	104.0	105.7
87.5°	42.2	39.9	40.4	38.1	38.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)