

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: P835690

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6LO-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835690
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-50-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

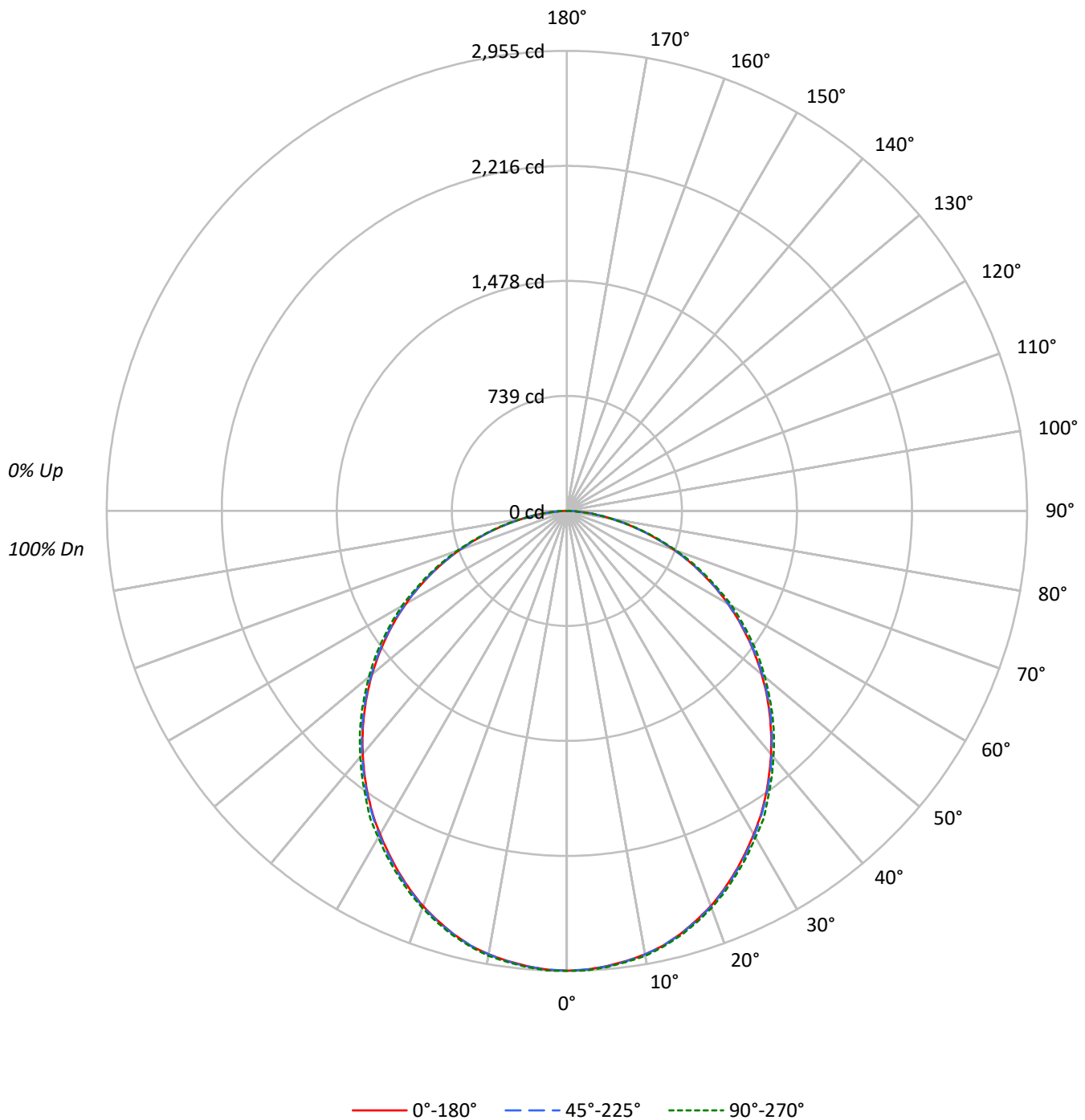
Lumens per Lamp: N/A
Luminaire Lumens: 7982.0 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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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°	7949	7949	7949
5°	7928	7935	7945
10°	7903	7905	7928
15°	7838	7843	7865
20°	7736	7745	7773
25°	7596	7614	7649
30°	7453	7478	7524
35°	7317	7335	7394
40°	7163	7187	7251
45°	7006	7036	7108
50°	6836	6867	6946
55°	6642	6674	6783
60°	6422	6448	6593
65°	6141	6160	6278
70°	5765	5770	5895
75°	5240	5220	5341
80°	4502	4483	4559
85°	3492	3436	3455

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.1	3.5
10°-20°	794.0	9.9
20°-30°	1182.1	14.8
30°-40°	1397.9	17.5
40°-50°	1427.1	17.9
50°-60°	1273.6	16.0
60°-70°	959.2	12.0
70°-80°	535.0	6.7
80°-90°	134.0	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°	2255.2	28.3
0°-40°	3653.1	45.8
0°-60°	6353.8	79.6
0°-90°	7982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7982.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2954	2954	2954	2954	2954	
5°	2935	2940	2938	2938	2941	279
15°	2813	2816	2815	2818	2823	793
25°	2558	2561	2564	2571	2576	1179
35°	2227	2225	2233	2242	2251	1393
45°	1841	1840	1849	1858	1868	1420
55°	1416	1414	1423	1432	1446	1266
65°	964	961	968	976	986	954
75°	504	500	502	505	514	534
85°	113	110	111	110	112	136
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2954.0	2954.0	2954.0	2954.0	2954.0
2.5°	2949.1	2954.0	2947.9	2949.1	2954.6
5°	2935.0	2940.5	2937.5	2938.1	2941.1
7.5°	2915.5	2922.8	2918.5	2919.7	2922.8
10°	2892.2	2897.7	2892.8	2895.9	2901.4
12.5°	2859.2	2861.6	2859.2	2860.4	2866.5
15°	2813.3	2816.4	2815.2	2817.6	2823.1
17.5°	2759.5	2763.2	2762.6	2767.4	2771.7
20°	2701.4	2702.0	2704.5	2709.3	2714.2
22.5°	2632.9	2634.7	2637.2	2643.9	2648.8
25°	2558.3	2561.3	2564.4	2571.1	2576.0
27.5°	2479.4	2482.4	2486.7	2494.1	2502.0
30°	2398.7	2398.7	2406.6	2413.9	2421.3
32.5°	2317.3	2314.3	2321.6	2330.8	2348.5
35°	2227.4	2225.0	2232.9	2241.5	2250.7
37.5°	2133.8	2132.0	2141.2	2150.4	2158.9
40°	2039.0	2036.6	2045.8	2054.9	2064.1
42.5°	1941.8	1940.6	1949.1	1958.3	1968.1
45°	1840.9	1840.3	1848.8	1858.0	1867.8
47.5°	1738.1	1736.9	1745.5	1755.3	1763.8
50°	1632.9	1631.7	1640.3	1650.1	1659.2
52.5°	1524.7	1524.7	1532.6	1541.2	1555.3
55°	1415.8	1414.0	1422.6	1432.3	1445.8
57.5°	1305.7	1303.3	1311.3	1321.0	1333.3
60°	1193.2	1190.8	1198.1	1207.9	1225.0
62.5°	1079.5	1075.8	1083.1	1092.3	1102.7
65°	964.5	960.8	967.5	976.1	985.9
67.5°	848.9	844.6	851.3	858.7	867.8
70°	732.7	728.4	733.3	740.6	749.2
72.5°	617.1	612.8	617.1	620.2	630.6
75°	504.0	499.7	502.1	504.6	513.7
77.5°	393.9	389.6	394.5	395.7	401.2
80°	290.5	286.2	289.3	289.9	294.2
82.5°	196.3	192.7	196.9	193.9	197.5
85°	113.1	110.1	111.3	110.1	111.9
87.5°	44.6	42.2	42.8	40.4	40.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)