

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: P835649

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4STD-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835649
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-LD4-4STD-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

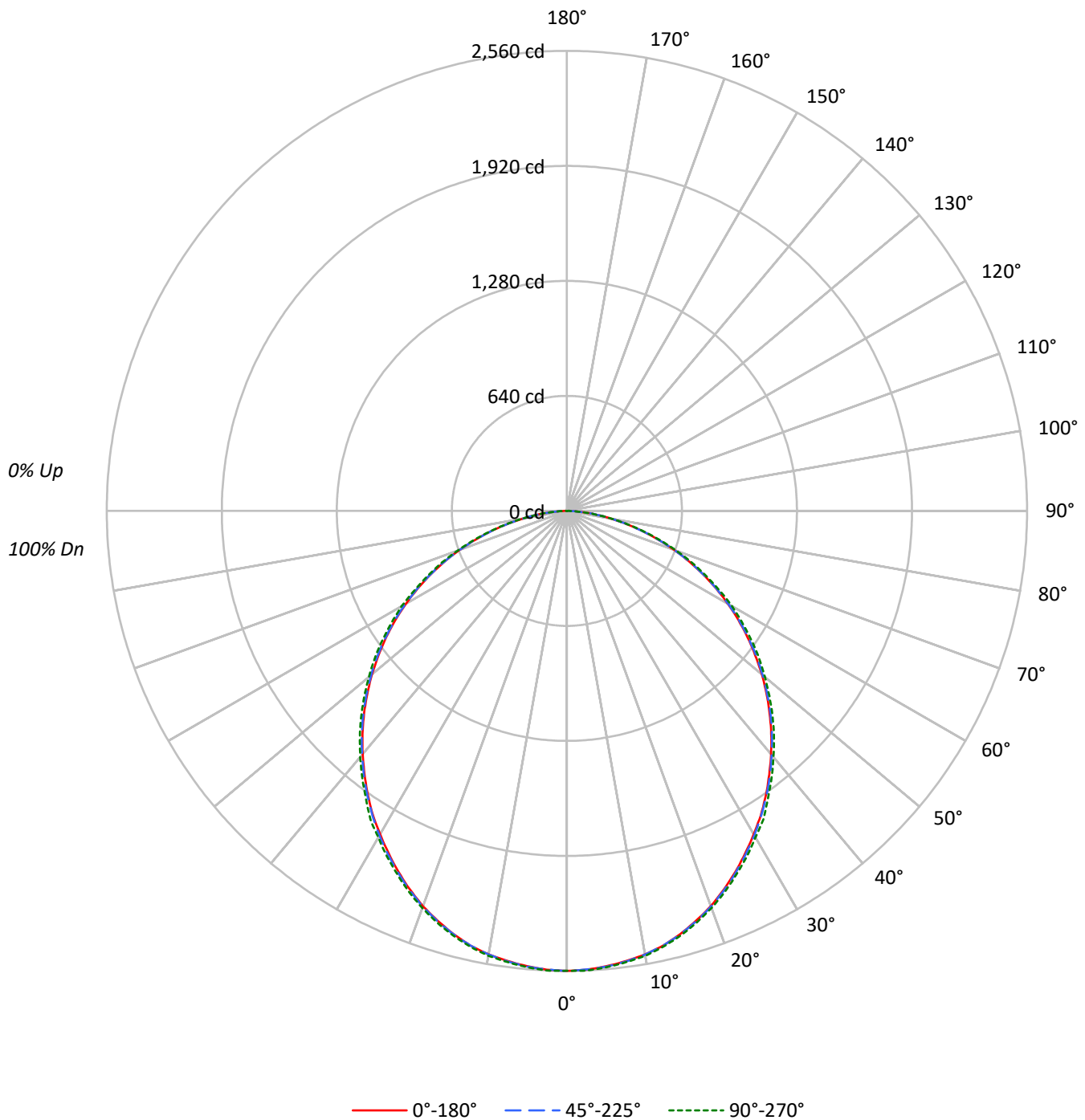
Lumens per Lamp: N/A
Luminaire Lumens: 6916.7 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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	30	10	50	30	10
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	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6888	6888	6888
5°	6870	6876	6884
10°	6848	6850	6870
15°	6791	6796	6815
20°	6703	6711	6735
25°	6582	6598	6628
30°	6458	6480	6519
35°	6341	6356	6407
40°	6207	6227	6283
45°	6071	6097	6159
50°	5924	5951	6019
55°	5756	5783	5878
60°	5565	5588	5713
65°	5322	5338	5440
70°	4995	4999	5108
75°	4540	4524	4629
80°	3901	3885	3950
85°	3026	2979	2995

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.9	3.5
10°-20°	688.0	9.9
20°-30°	1024.3	14.8
30°-40°	1211.3	17.5
40°-50°	1236.6	17.9
50°-60°	1103.6	16.0
60°-70°	831.2	12.0
70°-80°	463.6	6.7
80°-90°	116.1	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°	1954.2	28.3
0°-40°	3165.5	45.8
0°-60°	5505.7	79.6
0°-90°	6916.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6916.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2560	2560	2560	2560	2560	
5°	2543	2548	2545	2546	2549	242
15°	2438	2440	2439	2442	2446	687
25°	2217	2220	2222	2228	2232	1021
35°	1930	1928	1935	1942	1950	1207
45°	1595	1595	1602	1610	1618	1231
55°	1227	1225	1233	1241	1253	1097
65°	836	833	838	846	854	827
75°	437	433	435	437	445	463
85°	98	95	96	95	97	118
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2559.7	2559.7	2559.7	2559.7	2559.7
2.5°	2555.5	2559.7	2554.4	2555.5	2560.2
5°	2543.3	2548.1	2545.4	2545.9	2548.6
7.5°	2526.3	2532.7	2529.0	2530.0	2532.7
10°	2506.2	2511.0	2506.7	2509.4	2514.1
12.5°	2477.6	2479.7	2477.6	2478.6	2483.9
15°	2437.8	2440.5	2439.4	2441.5	2446.3
17.5°	2391.2	2394.4	2393.8	2398.1	2401.8
20°	2340.8	2341.4	2343.5	2347.7	2352.0
22.5°	2281.5	2283.1	2285.2	2291.0	2295.3
25°	2216.8	2219.5	2222.1	2228.0	2232.2
27.5°	2148.5	2151.1	2154.8	2161.2	2168.1
30°	2078.5	2078.5	2085.4	2091.8	2098.1
32.5°	2008.0	2005.4	2011.7	2019.7	2035.1
35°	1930.1	1928.0	1934.9	1942.3	1950.3
37.5°	1849.0	1847.4	1855.4	1863.3	1870.8
40°	1766.9	1764.8	1772.7	1780.7	1788.6
42.5°	1682.6	1681.6	1689.0	1696.9	1705.4
45°	1595.2	1594.7	1602.1	1610.0	1618.5
47.5°	1506.2	1505.1	1512.5	1521.0	1528.4
50°	1415.0	1413.9	1421.4	1429.8	1437.8
52.5°	1321.2	1321.2	1328.1	1335.5	1347.7
55°	1226.9	1225.3	1232.7	1241.2	1252.8
57.5°	1131.5	1129.3	1136.2	1144.7	1155.3
60°	1034.0	1031.8	1038.2	1046.7	1061.5
62.5°	935.4	932.2	938.6	946.5	955.5
65°	835.8	832.6	838.4	845.8	854.3
67.5°	735.6	731.9	737.7	744.1	752.0
70°	634.9	631.2	635.4	641.8	649.2
72.5°	534.7	531.0	534.7	537.4	546.4
75°	436.7	433.0	435.1	437.2	445.2
77.5°	341.3	337.6	341.8	342.9	347.7
80°	251.7	248.0	250.7	251.2	254.9
82.5°	170.1	166.9	170.6	168.0	171.2
85°	98.0	95.4	96.5	95.4	97.0
87.5°	38.7	36.6	37.1	35.0	35.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)