

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: P835591

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3LO-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835591
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-LD4-3LO-20-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

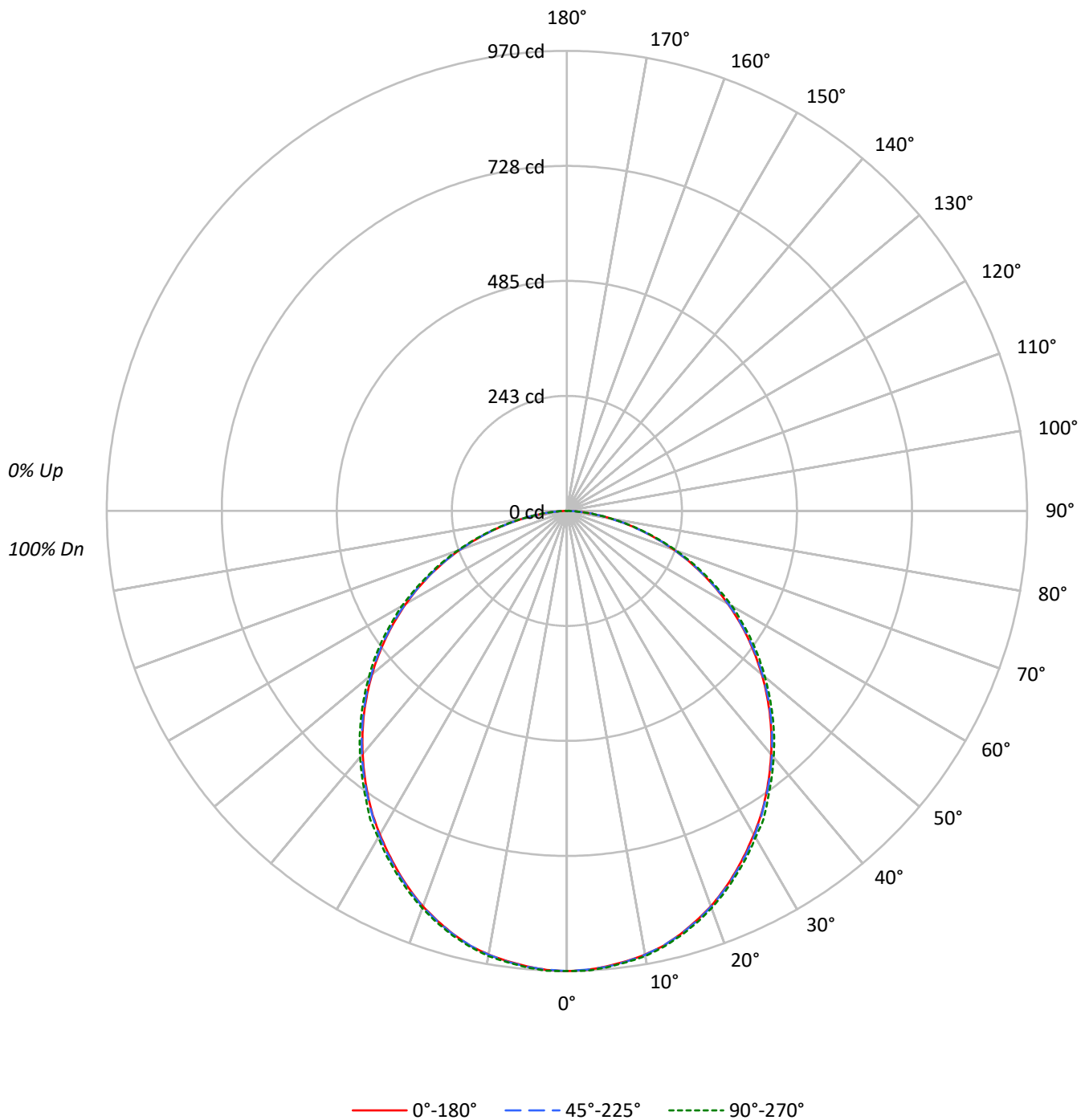
Lumens per Lamp: N/A
Luminaire Lumens: 2621.8 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	2611	2611	2611
5°	2604	2606	2610
10°	2596	2596	2604
15°	2574	2576	2583
20°	2541	2544	2553
25°	2495	2501	2512
30°	2448	2456	2471
35°	2403	2409	2429
40°	2353	2361	2382
45°	2301	2311	2335
50°	2246	2256	2282
55°	2182	2192	2228
60°	2109	2118	2166
65°	2017	2024	2062
70°	1894	1895	1936
75°	1721	1714	1754
80°	1478	1472	1497
85°	1149	1130	1136

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	3.5
10°-20°	260.8	9.9
20°-30°	388.3	14.8
30°-40°	459.2	17.5
40°-50°	468.7	17.9
50°-60°	418.3	16.0
60°-70°	315.1	12.0
70°-80°	175.7	6.7
80°-90°	44.0	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°	740.8	28.3
0°-40°	1199.9	45.8
0°-60°	2087.0	79.6
0°-90°	2621.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2621.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	964	966	965	965	966	92
15°	924	925	925	926	927	260
25°	840	841	842	844	846	387
35°	732	731	733	736	739	458
45°	605	604	607	610	614	466
55°	465	464	467	470	475	416
65°	317	316	318	321	324	313
75°	166	164	165	166	169	175
85°	37	36	37	36	37	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.3	970.3	970.3	970.3	970.3
2.5°	968.7	970.3	968.3	968.7	970.5
5°	964.1	965.9	964.9	965.1	966.1
7.5°	957.6	960.0	958.6	959.0	960.0
10°	950.0	951.8	950.2	951.2	953.0
12.5°	939.1	940.0	939.1	939.6	941.6
15°	924.1	925.1	924.7	925.5	927.3
17.5°	906.4	907.6	907.4	909.0	910.4
20°	887.3	887.5	888.3	889.9	891.5
22.5°	864.8	865.4	866.2	868.4	870.0
25°	840.3	841.3	842.3	844.5	846.1
27.5°	814.4	815.4	816.8	819.2	821.8
30°	787.9	787.9	790.5	792.9	795.3
32.5°	761.2	760.2	762.6	765.6	771.4
35°	731.6	730.8	733.4	736.3	739.3
37.5°	700.9	700.3	703.3	706.3	709.1
40°	669.8	669.0	672.0	675.0	678.0
42.5°	637.8	637.4	640.2	643.2	646.5
45°	604.7	604.5	607.3	610.3	613.5
47.5°	570.9	570.5	573.3	576.5	579.4
50°	536.4	536.0	538.8	542.0	545.0
52.5°	500.8	500.8	503.4	506.2	510.9
55°	465.1	464.5	467.3	470.5	474.9
57.5°	428.9	428.1	430.7	433.9	437.9
60°	391.9	391.1	393.5	396.8	402.4
62.5°	354.6	353.4	355.8	358.8	362.2
65°	316.8	315.6	317.8	320.6	323.8
67.5°	278.8	277.4	279.6	282.0	285.1
70°	240.7	239.3	240.9	243.3	246.1
72.5°	202.7	201.3	202.7	203.7	207.1
75°	165.5	164.1	164.9	165.7	168.7
77.5°	129.4	128.0	129.6	130.0	131.8
80°	95.4	94.0	95.0	95.2	96.6
82.5°	64.5	63.3	64.7	63.7	64.9
85°	37.2	36.2	36.6	36.2	36.8
87.5°	14.7	13.9	14.1	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)