

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: P835750

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835750
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-LD4-2LO-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

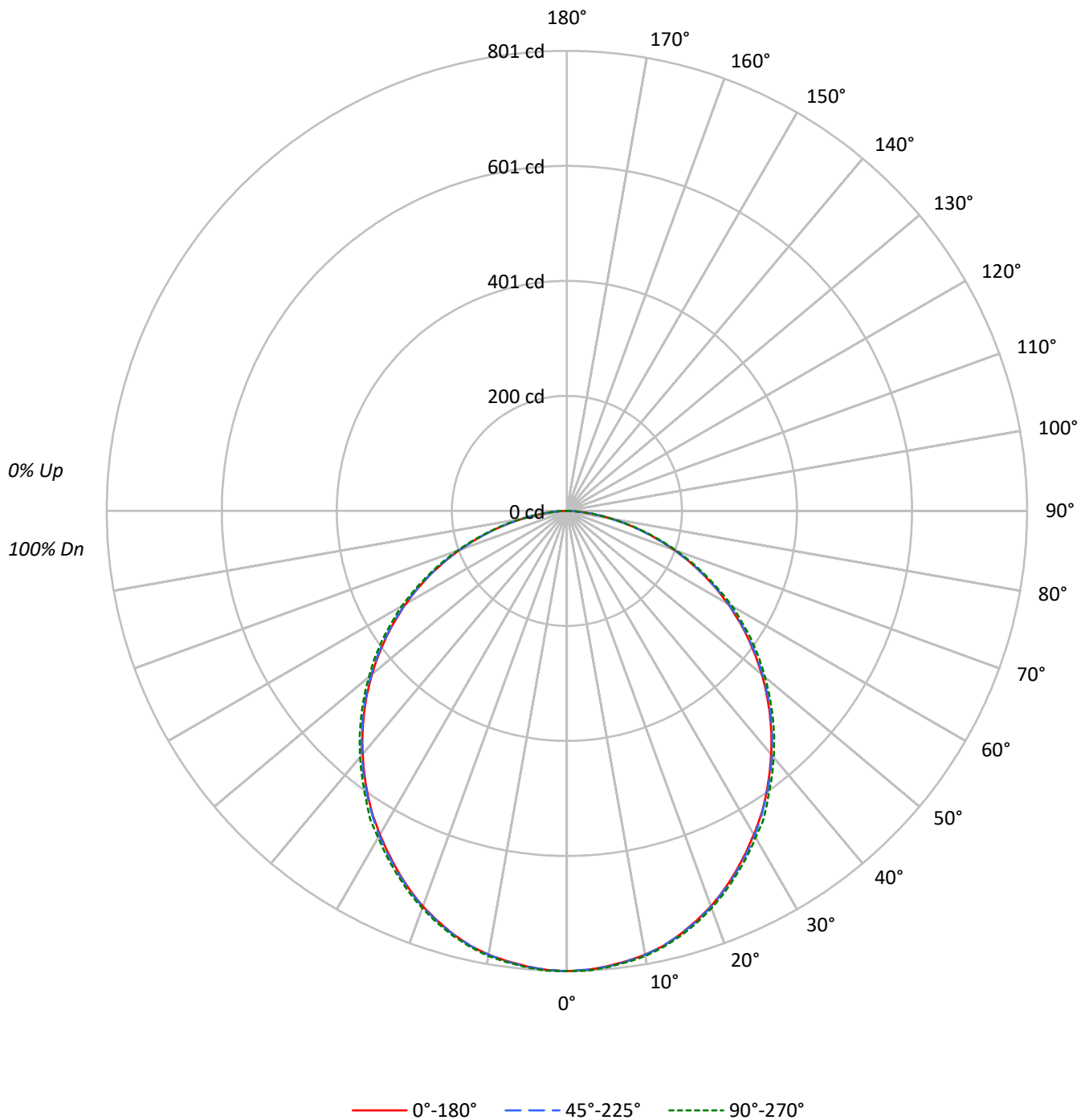
Lumens per Lamp: N/A
Luminaire Lumens: 2165.1 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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	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	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2156	2156	2156
5°	2150	2152	2155
10°	2144	2144	2150
15°	2126	2127	2133
20°	2098	2101	2108
25°	2060	2065	2075
30°	2022	2028	2041
35°	1985	1990	2006
40°	1943	1949	1967
45°	1900	1909	1928
50°	1854	1863	1884
55°	1802	1810	1840
60°	1742	1749	1788
65°	1666	1671	1703
70°	1563	1565	1599
75°	1421	1416	1448
80°	1221	1216	1237
85°	948	932	939

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	3.5
10°-20°	215.4	9.9
20°-30°	320.6	14.8
30°-40°	379.2	17.5
40°-50°	387.1	17.9
50°-60°	345.5	16.0
60°-70°	260.2	12.0
70°-80°	145.1	6.7
80°-90°	36.4	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°	611.7	28.3
0°-40°	990.9	45.8
0°-60°	1723.4	79.6
0°-90°	2165.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2165.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	801	801	801	801	801	
5°	796	798	797	797	798	76
15°	763	764	764	764	766	215
25°	694	695	696	697	699	320
35°	604	604	606	608	610	378
45°	499	499	502	504	507	385
55°	384	384	386	388	392	343
65°	262	261	262	265	267	259
75°	137	136	136	137	139	145
85°	31	30	30	30	30	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	801.3	801.3	801.3	801.3	801.3
2.5°	799.9	801.3	799.6	799.9	801.4
5°	796.1	797.6	796.8	796.9	797.8
7.5°	790.8	792.8	791.6	792.0	792.8
10°	784.5	786.0	784.7	785.5	787.0
12.5°	775.5	776.2	775.5	775.9	777.5
15°	763.1	763.9	763.6	764.3	765.8
17.5°	748.5	749.5	749.3	750.7	751.8
20°	732.7	732.9	733.6	734.9	736.2
22.5°	714.2	714.7	715.3	717.1	718.5
25°	693.9	694.8	695.6	697.4	698.7
27.5°	672.5	673.4	674.5	676.5	678.7
30°	650.6	650.6	652.8	654.8	656.8
32.5°	628.6	627.7	629.7	632.2	637.0
35°	604.2	603.5	605.7	608.0	610.5
37.5°	578.8	578.3	580.8	583.3	585.6
40°	553.1	552.4	554.9	557.4	559.9
42.5°	526.7	526.4	528.7	531.2	533.8
45°	499.3	499.2	501.5	504.0	506.6
47.5°	471.5	471.1	473.5	476.1	478.4
50°	442.9	442.6	444.9	447.6	450.1
52.5°	413.6	413.6	415.7	418.0	421.9
55°	384.0	383.5	385.9	388.5	392.2
57.5°	354.2	353.5	355.7	358.3	361.6
60°	323.7	323.0	325.0	327.6	332.3
62.5°	292.8	291.8	293.8	296.3	299.1
65°	261.6	260.6	262.4	264.8	267.4
67.5°	230.3	229.1	230.9	232.9	235.4
70°	198.7	197.6	198.9	200.9	203.2
72.5°	167.4	166.2	167.4	168.2	171.0
75°	136.7	135.5	136.2	136.9	139.3
77.5°	106.8	105.7	107.0	107.3	108.8
80°	78.8	77.6	78.5	78.6	79.8
82.5°	53.3	52.3	53.4	52.6	53.6
85°	30.7	29.9	30.2	29.9	30.4
87.5°	12.1	11.4	11.6	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)