

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P835665

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3HI-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835665
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-LD4-3HI-40-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

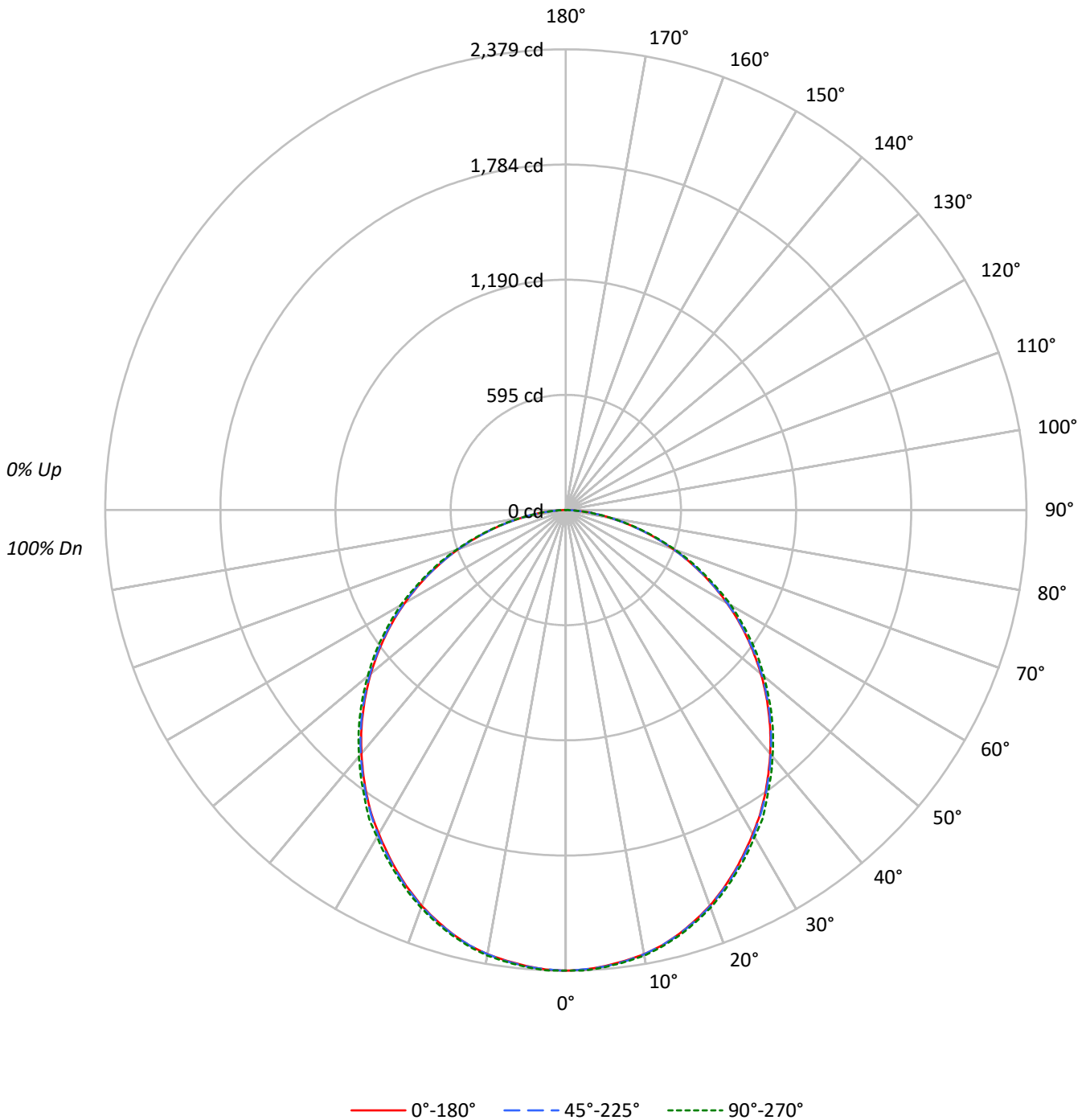
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6427.2 lumens
Efficiency: N/A
Efficacy: 97.4 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
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





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6401	6401	6401
5°	6384	6389	6397
10°	6364	6365	6384
15°	6311	6315	6333
20°	6229	6236	6259
25°	6116	6131	6159
30°	6001	6021	6058
35°	5892	5907	5954
40°	5768	5787	5839
45°	5641	5665	5724
50°	5505	5529	5593
55°	5349	5374	5462
60°	5171	5192	5309
65°	4945	4961	5055
70°	4642	4646	4747
75°	4219	4204	4301
80°	3625	3609	3671
85°	2813	2766	2782



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	3.5
10°-20°	639.4	9.9
20°-30°	951.8	14.8
30°-40°	1125.6	17.5
40°-50°	1149.1	17.9
50°-60°	1025.5	16.0
60°-70°	772.4	12.0
70°-80°	430.7	6.7
80°-90°	107.9	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°	1816.0	28.3
0°-40°	2941.6	45.8
0°-60°	5116.2	79.6
0°-90°	6427.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6427.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2379	2379	2379	2379	2379	
5°	2363	2368	2365	2366	2368	224
15°	2265	2268	2267	2269	2273	638
25°	2060	2062	2065	2070	2074	949
35°	1794	1792	1798	1805	1812	1122
45°	1482	1482	1489	1496	1504	1143
55°	1140	1139	1146	1153	1164	1019
65°	777	774	779	786	794	768
75°	406	402	404	406	414	430
85°	91	89	90	89	90	109
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2378.6	2378.6	2378.6	2378.6	2378.6
2.5°	2374.7	2378.6	2373.7	2374.7	2379.1
5°	2363.3	2367.8	2365.3	2365.8	2368.3
7.5°	2347.6	2353.5	2350.0	2351.0	2353.5
10°	2328.9	2333.3	2329.4	2331.8	2336.3
12.5°	2302.3	2304.2	2302.3	2303.3	2308.2
15°	2265.3	2267.8	2266.8	2268.8	2273.2
17.5°	2222.0	2225.0	2224.5	2228.4	2231.8
20°	2175.2	2175.7	2177.7	2181.6	2185.6
22.5°	2120.1	2121.5	2123.5	2128.9	2132.9
25°	2060.0	2062.4	2064.9	2070.3	2074.3
27.5°	1996.4	1998.9	2002.4	2008.3	2014.7
30°	1931.4	1931.4	1937.8	1943.8	1949.7
32.5°	1865.9	1863.5	1869.4	1876.8	1891.1
35°	1793.6	1791.6	1798.0	1804.9	1812.3
37.5°	1718.2	1716.7	1724.1	1731.5	1738.4
40°	1641.9	1639.9	1647.3	1654.7	1662.1
42.5°	1563.6	1562.6	1569.5	1576.9	1584.7
45°	1482.3	1481.8	1488.7	1496.1	1504.0
47.5°	1399.6	1398.6	1405.5	1413.4	1420.3
50°	1314.9	1313.9	1320.8	1328.7	1336.1
52.5°	1227.7	1227.7	1234.1	1241.0	1252.3
55°	1140.1	1138.6	1145.5	1153.4	1164.2
57.5°	1051.4	1049.4	1055.8	1063.7	1073.6
60°	960.8	958.8	964.7	972.6	986.4
62.5°	869.2	866.2	872.2	879.5	887.9
65°	776.6	773.7	779.1	786.0	793.9
67.5°	683.5	680.1	685.5	691.4	698.8
70°	590.0	586.5	590.5	596.4	603.3
72.5°	496.9	493.4	496.9	499.4	507.7
75°	405.8	402.3	404.3	406.3	413.7
77.5°	317.1	313.7	317.6	318.6	323.1
80°	233.9	230.5	232.9	233.4	236.9
82.5°	158.1	155.1	158.6	156.1	159.1
85°	91.1	88.6	89.6	88.6	90.1
87.5°	35.9	34.0	34.5	32.5	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)