

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: P835709

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6STD-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835709
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-LD4-6STD-20-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

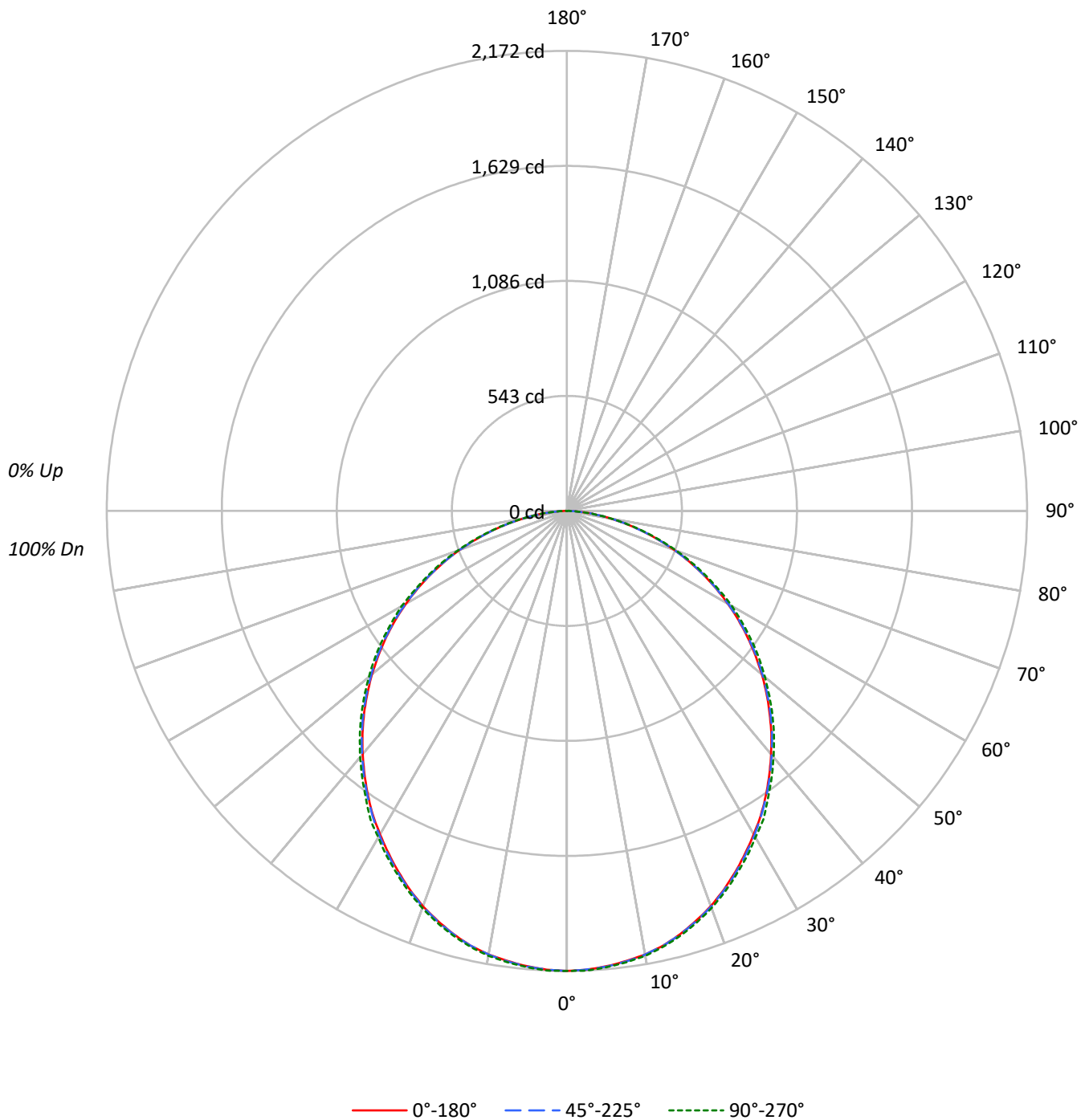
Lumens per Lamp: N/A
Luminaire Lumens: 5868.6 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5845	5845	5845
5°	5829	5834	5841
10°	5811	5812	5829
15°	5763	5766	5783
20°	5688	5694	5715
25°	5585	5598	5624
30°	5480	5498	5532
35°	5380	5393	5436
40°	5266	5284	5331
45°	5151	5173	5226
50°	5026	5049	5107
55°	4884	4907	4987
60°	4722	4741	4848
65°	4515	4530	4616
70°	4238	4242	4334
75°	3852	3839	3927
80°	3310	3296	3352
85°	2569	2526	2541

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.2	3.5
10°-20°	583.8	9.9
20°-30°	869.1	14.8
30°-40°	1027.8	17.5
40°-50°	1049.2	17.9
50°-60°	936.4	16.0
60°-70°	705.3	12.0
70°-80°	393.3	6.7
80°-90°	98.5	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°	1658.1	28.3
0°-40°	2685.9	45.8
0°-60°	4671.5	79.6
0°-90°	5868.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5868.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2172	2172	2172	2172	2172	
5°	2158	2162	2160	2160	2162	205
15°	2068	2071	2070	2072	2076	583
25°	1881	1883	1885	1890	1894	867
35°	1638	1636	1642	1648	1655	1024
45°	1354	1353	1359	1366	1373	1044
55°	1041	1040	1046	1053	1063	930
65°	709	706	711	718	725	701
75°	370	367	369	371	378	393
85°	83	81	82	81	82	100
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2171.9	2171.9	2171.9	2171.9	2171.9
2.5°	2168.3	2171.9	2167.4	2168.3	2172.3
5°	2157.9	2162.0	2159.7	2160.2	2162.4
7.5°	2143.6	2148.9	2145.8	2146.7	2148.9
10°	2126.5	2130.5	2126.9	2129.2	2133.2
12.5°	2102.2	2104.0	2102.2	2103.1	2107.6
15°	2068.5	2070.7	2069.8	2071.6	2075.7
17.5°	2028.9	2031.6	2031.1	2034.7	2037.9
20°	1986.2	1986.6	1988.4	1992.0	1995.6
22.5°	1935.8	1937.2	1939.0	1943.9	1947.5
25°	1880.9	1883.2	1885.4	1890.4	1894.0
27.5°	1822.9	1825.2	1828.3	1833.7	1839.6
30°	1763.6	1763.6	1769.4	1774.8	1780.2
32.5°	1703.8	1701.5	1706.9	1713.7	1726.7
35°	1637.7	1635.9	1641.7	1648.0	1654.8
37.5°	1568.9	1567.5	1574.3	1581.0	1587.3
40°	1499.2	1497.4	1504.1	1510.9	1517.6
42.5°	1427.7	1426.8	1433.1	1439.8	1447.0
45°	1353.5	1353.0	1359.3	1366.1	1373.3
47.5°	1277.9	1277.0	1283.3	1290.5	1296.8
50°	1200.6	1199.7	1206.0	1213.2	1219.9
52.5°	1121.0	1121.0	1126.9	1133.2	1143.5
55°	1041.0	1039.6	1045.9	1053.1	1063.0
57.5°	960.0	958.2	964.1	971.3	980.3
60°	877.3	875.5	880.9	888.1	900.7
62.5°	793.7	791.0	796.4	803.1	810.7
65°	709.1	706.4	711.4	717.7	724.9
67.5°	624.1	621.0	625.9	631.3	638.1
70°	538.7	535.6	539.1	544.5	550.8
72.5°	453.7	450.6	453.7	456.0	463.6
75°	370.5	367.4	369.2	371.0	377.7
77.5°	289.6	286.4	290.0	290.9	295.0
80°	213.6	210.4	212.7	213.1	216.3
82.5°	144.3	141.6	144.8	142.5	145.2
85°	83.2	80.9	81.8	80.9	82.3
87.5°	32.8	31.0	31.5	29.7	29.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)