

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: P835726

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6LO-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835726
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-LD4-6LO-27-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

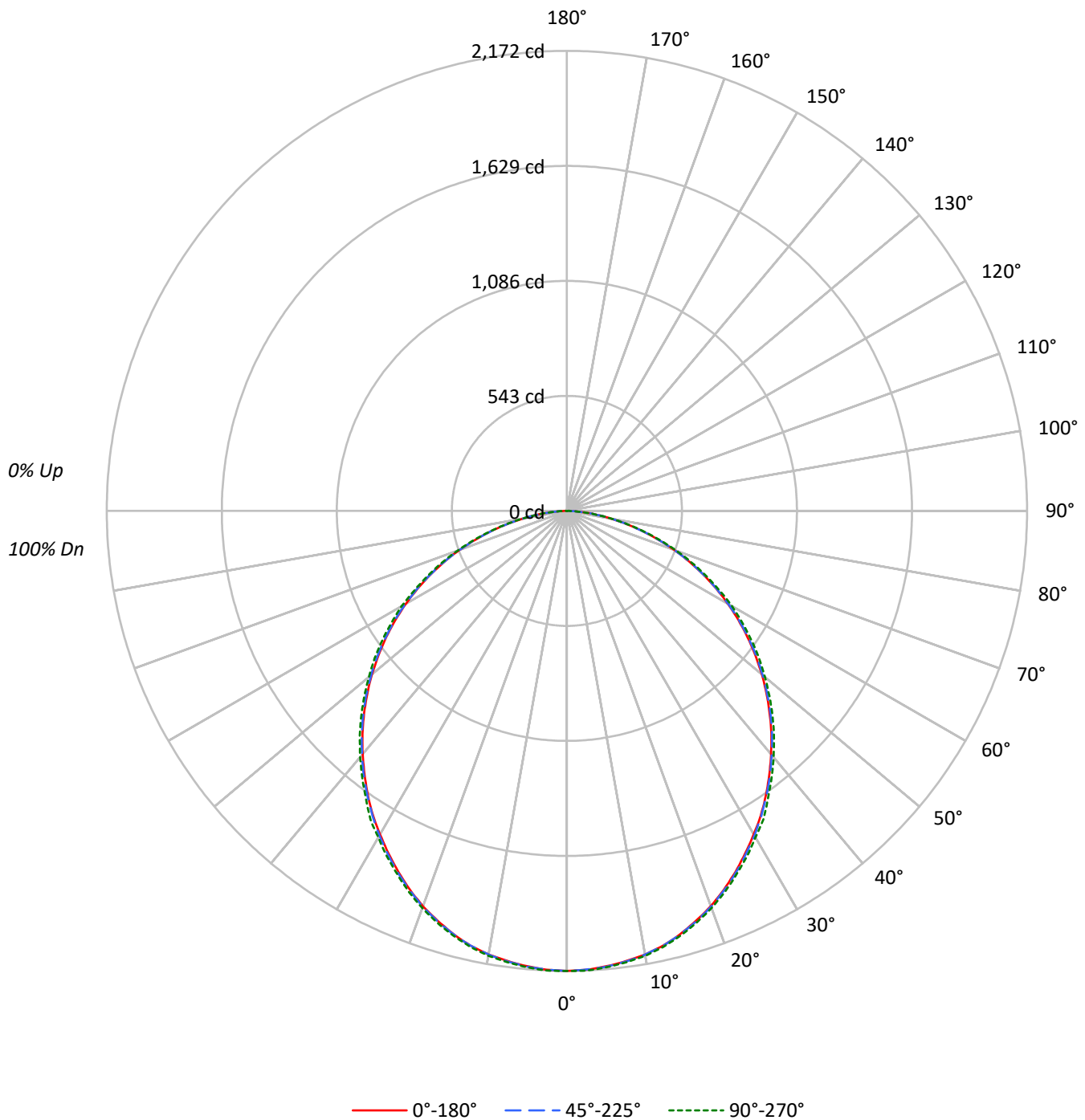
Lumens per Lamp: N/A
Luminaire Lumens: 5869.1 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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

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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	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5845	5845	5845
5°	5830	5834	5842
10°	5811	5812	5829
15°	5763	5767	5783
20°	5688	5695	5715
25°	5585	5599	5624
30°	5480	5499	5532
35°	5380	5394	5436
40°	5267	5284	5331
45°	5151	5173	5227
50°	5027	5049	5107
55°	4884	4907	4988
60°	4722	4742	4848
65°	4516	4530	4616
70°	4238	4242	4334
75°	3853	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°	205.3	3.5
10°-20°	583.8	9.9
20°-30°	869.2	14.8
30°-40°	1027.9	17.5
40°-50°	1049.3	17.9
50°-60°	936.5	16.0
60°-70°	705.3	12.0
70°-80°	393.4	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°	1658.3	28.3
0°-40°	2686.1	45.8
0°-60°	4671.9	79.6
0°-90°	5869.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5869.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2172	2172	2172	2172	2172	
5°	2158	2162	2160	2160	2163	205
15°	2069	2071	2070	2072	2076	583
25°	1881	1883	1886	1890	1894	867
35°	1638	1636	1642	1648	1655	1024
45°	1354	1353	1359	1366	1373	1044
55°	1041	1040	1046	1053	1063	931
65°	709	706	711	718	725	701
75°	371	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°	2172.0	2172.0	2172.0	2172.0	2172.0
2.5°	2168.4	2172.0	2167.6	2168.4	2172.5
5°	2158.1	2162.2	2159.9	2160.4	2162.6
7.5°	2143.7	2149.1	2146.0	2146.9	2149.1
10°	2126.6	2130.7	2127.1	2129.3	2133.4
12.5°	2102.3	2104.1	2102.3	2103.2	2107.7
15°	2068.6	2070.9	2070.0	2071.8	2075.8
17.5°	2029.0	2031.7	2031.3	2034.9	2038.0
20°	1986.3	1986.8	1988.6	1992.2	1995.8
22.5°	1936.0	1937.3	1939.1	1944.0	1947.6
25°	1881.1	1883.3	1885.6	1890.5	1894.1
27.5°	1823.1	1825.3	1828.5	1833.9	1839.7
30°	1763.7	1763.7	1769.6	1775.0	1780.4
32.5°	1703.9	1701.7	1707.1	1713.8	1726.8
35°	1637.8	1636.0	1641.9	1648.1	1654.9
37.5°	1569.0	1567.7	1574.4	1581.1	1587.4
40°	1499.3	1497.5	1504.2	1511.0	1517.7
42.5°	1427.8	1426.9	1433.2	1439.9	1447.1
45°	1353.6	1353.1	1359.4	1366.2	1373.4
47.5°	1278.0	1277.1	1283.4	1290.6	1296.9
50°	1200.7	1199.8	1206.1	1213.3	1220.0
52.5°	1121.1	1121.1	1126.9	1133.2	1143.6
55°	1041.1	1039.7	1046.0	1053.2	1063.1
57.5°	960.1	958.3	964.2	971.4	980.3
60°	877.4	875.6	881.0	888.2	900.7
62.5°	793.7	791.0	796.4	803.2	810.8
65°	709.2	706.5	711.4	717.7	724.9
67.5°	624.2	621.0	626.0	631.4	638.1
70°	538.7	535.6	539.2	544.6	550.9
72.5°	453.7	450.6	453.7	456.0	463.6
75°	370.6	367.4	369.2	371.0	377.7
77.5°	289.6	286.5	290.1	291.0	295.0
80°	213.6	210.5	212.7	213.2	216.3
82.5°	144.4	141.7	144.8	142.6	145.3
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)