

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: P835601

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835601
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
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

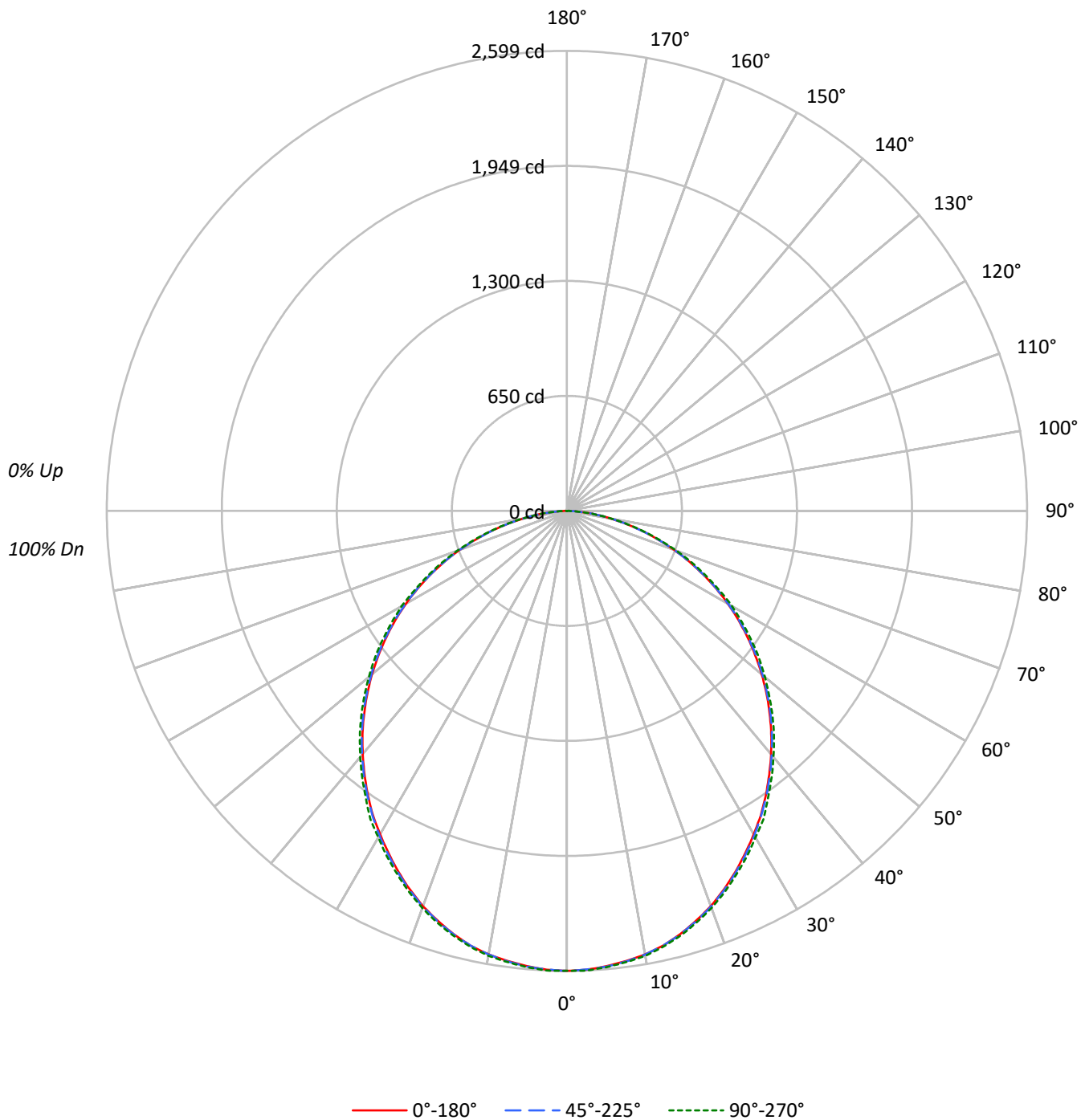
Lumens per Lamp: N/A
Luminaire Lumens: 7021.4 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6993	6993	6993
5°	6974	6980	6989
10°	6952	6953	6974
15°	6895	6899	6919
20°	6805	6813	6837
25°	6682	6698	6728
30°	6556	6578	6618
35°	6437	6453	6504
40°	6301	6322	6378
45°	6163	6189	6253
50°	6013	6041	6110
55°	5843	5871	5967
60°	5649	5672	5800
65°	5402	5419	5522
70°	5071	5076	5185
75°	4609	4592	4698
80°	3959	3944	4011
85°	3072	3023	3041

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.5	3.5
10°-20°	698.5	9.9
20°-30°	1039.8	14.8
30°-40°	1229.7	17.5
40°-50°	1255.3	17.9
50°-60°	1120.3	16.0
60°-70°	843.8	12.0
70°-80°	470.6	6.7
80°-90°	117.9	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°	1983.8	28.3
0°-40°	3213.5	45.8
0°-60°	5589.2	79.6
0°-90°	7021.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7021.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2598	2598	2598	2598	2598	
5°	2582	2587	2584	2584	2587	245
15°	2475	2478	2476	2478	2483	698
25°	2250	2253	2256	2262	2266	1037
35°	1959	1957	1964	1972	1980	1225
45°	1619	1619	1626	1634	1643	1249
55°	1246	1244	1251	1260	1272	1113
65°	848	845	851	859	867	839
75°	443	440	442	444	452	470
85°	100	97	98	97	98	119
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2598.5	2598.5	2598.5	2598.5	2598.5
2.5°	2594.2	2598.5	2593.1	2594.2	2599.0
5°	2581.8	2586.7	2584.0	2584.5	2587.2
7.5°	2564.6	2571.1	2567.3	2568.4	2571.1
10°	2544.2	2549.0	2544.7	2547.4	2552.2
12.5°	2515.1	2517.3	2515.1	2516.2	2521.6
15°	2474.8	2477.5	2476.4	2478.5	2483.4
17.5°	2427.4	2430.6	2430.1	2434.4	2438.2
20°	2376.3	2376.8	2379.0	2383.3	2387.6
22.5°	2316.1	2317.7	2319.8	2325.7	2330.0
25°	2250.4	2253.1	2255.8	2261.7	2266.0
27.5°	2181.0	2183.7	2187.5	2193.9	2200.9
30°	2110.0	2110.0	2117.0	2123.5	2129.9
32.5°	2038.5	2035.8	2042.2	2050.3	2065.9
35°	1959.4	1957.2	1964.2	1971.7	1979.8
37.5°	1877.1	1875.4	1883.5	1891.6	1899.1
40°	1793.7	1791.5	1799.6	1807.7	1815.7
42.5°	1708.1	1707.0	1714.6	1722.6	1731.3
45°	1619.4	1618.8	1626.3	1634.4	1643.0
47.5°	1529.0	1527.9	1535.4	1544.0	1551.6
50°	1436.4	1435.4	1442.9	1451.5	1459.6
52.5°	1341.2	1341.2	1348.2	1355.7	1368.1
55°	1245.5	1243.8	1251.4	1260.0	1271.8
57.5°	1148.6	1146.5	1153.5	1162.1	1172.8
60°	1049.6	1047.5	1053.9	1062.5	1077.6
62.5°	949.6	946.3	952.8	960.9	970.0
65°	848.4	845.2	851.1	858.6	867.2
67.5°	746.7	743.0	748.9	755.3	763.4
70°	644.5	640.7	645.1	651.5	659.0
72.5°	542.8	539.1	542.8	545.5	554.7
75°	443.3	439.5	441.7	443.8	451.9
77.5°	346.5	342.7	347.0	348.1	352.9
80°	255.5	251.8	254.5	255.0	258.8
82.5°	172.7	169.5	173.2	170.5	173.8
85°	99.5	96.8	97.9	96.8	98.5
87.5°	39.3	37.1	37.7	35.5	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)