

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: P835605

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1HI-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835605
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-LD4-1HI-27-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

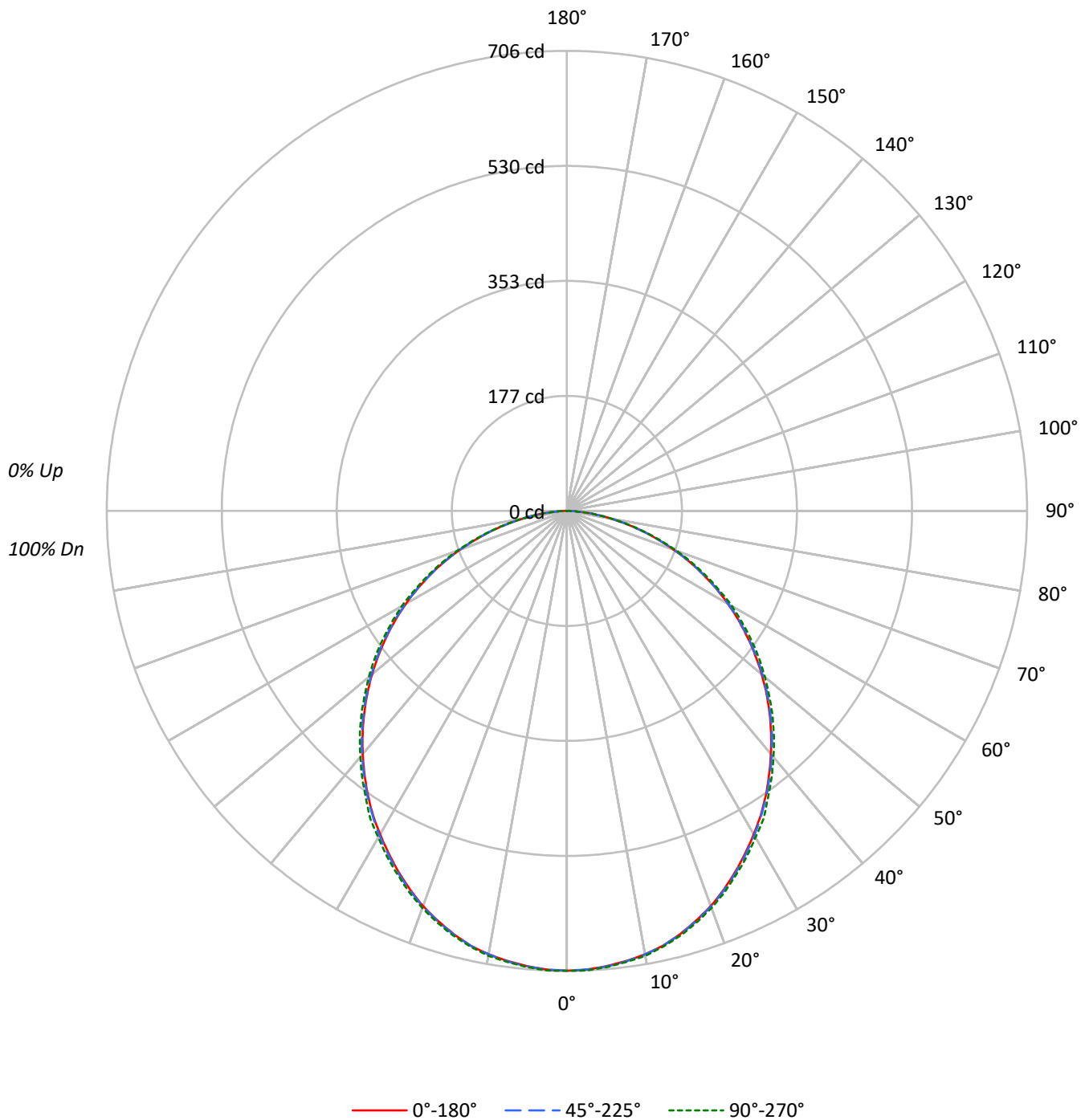
Lumens per Lamp: N/A
Luminaire Lumens: 1907.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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°	1899	1899	1899
5°	1894	1896	1898
10°	1888	1888	1894
15°	1872	1874	1879
20°	1848	1850	1857
25°	1815	1819	1827
30°	1781	1787	1798
35°	1748	1753	1766
40°	1711	1717	1732
45°	1674	1681	1698
50°	1633	1641	1659
55°	1587	1595	1620
60°	1534	1540	1575
65°	1467	1472	1500
70°	1377	1378	1408
75°	1252	1248	1276
80°	1075	1071	1089
85°	834	821	824

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	3.5
10°-20°	189.7	9.9
20°-30°	282.4	14.8
30°-40°	334.0	17.5
40°-50°	340.9	17.9
50°-60°	304.3	16.0
60°-70°	229.2	12.0
70°-80°	127.8	6.7
80°-90°	32.0	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°	538.8	28.3
0°-40°	872.8	45.8
0°-60°	1518.0	79.6
0°-90°	1907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	701	702	702	702	703	67
15°	672	673	673	673	674	189
25°	611	612	613	614	615	282
35°	532	532	534	536	538	333
45°	440	440	442	444	446	339
55°	338	338	340	342	345	302
65°	230	230	231	233	236	228
75°	120	119	120	120	123	128
85°	27	26	27	26	27	32
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	705.7	705.7	705.7	705.7	705.7
2.5°	704.6	705.7	704.3	704.6	705.9
5°	701.2	702.5	701.8	701.9	702.7
7.5°	696.5	698.3	697.3	697.6	698.3
10°	691.0	692.3	691.1	691.9	693.2
12.5°	683.1	683.7	683.1	683.4	684.8
15°	672.1	672.9	672.6	673.2	674.5
17.5°	659.3	660.1	660.0	661.2	662.2
20°	645.4	645.5	646.1	647.3	648.5
22.5°	629.0	629.5	630.0	631.7	632.8
25°	611.2	611.9	612.7	614.3	615.4
27.5°	592.4	593.1	594.1	595.9	597.8
30°	573.1	573.1	575.0	576.7	578.5
32.5°	553.6	552.9	554.7	556.8	561.1
35°	532.2	531.6	533.5	535.5	537.7
37.5°	509.8	509.4	511.5	513.7	515.8
40°	487.1	486.6	488.8	490.9	493.1
42.5°	463.9	463.6	465.7	467.9	470.2
45°	439.8	439.7	441.7	443.9	446.2
47.5°	415.3	415.0	417.0	419.4	421.4
50°	390.1	389.8	391.9	394.2	396.4
52.5°	364.3	364.3	366.2	368.2	371.6
55°	338.3	337.8	339.9	342.2	345.4
57.5°	312.0	311.4	313.3	315.6	318.5
60°	285.1	284.5	286.2	288.6	292.7
62.5°	257.9	257.0	258.8	261.0	263.4
65°	230.4	229.5	231.2	233.2	235.5
67.5°	202.8	201.8	203.4	205.1	207.3
70°	175.0	174.0	175.2	176.9	179.0
72.5°	147.4	146.4	147.4	148.2	150.6
75°	120.4	119.4	120.0	120.5	122.7
77.5°	94.1	93.1	94.2	94.5	95.9
80°	69.4	68.4	69.1	69.3	70.3
82.5°	46.9	46.0	47.0	46.3	47.2
85°	27.0	26.3	26.6	26.3	26.7
87.5°	10.7	10.1	10.2	9.6	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)