

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: P835767

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1HI-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835767
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-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

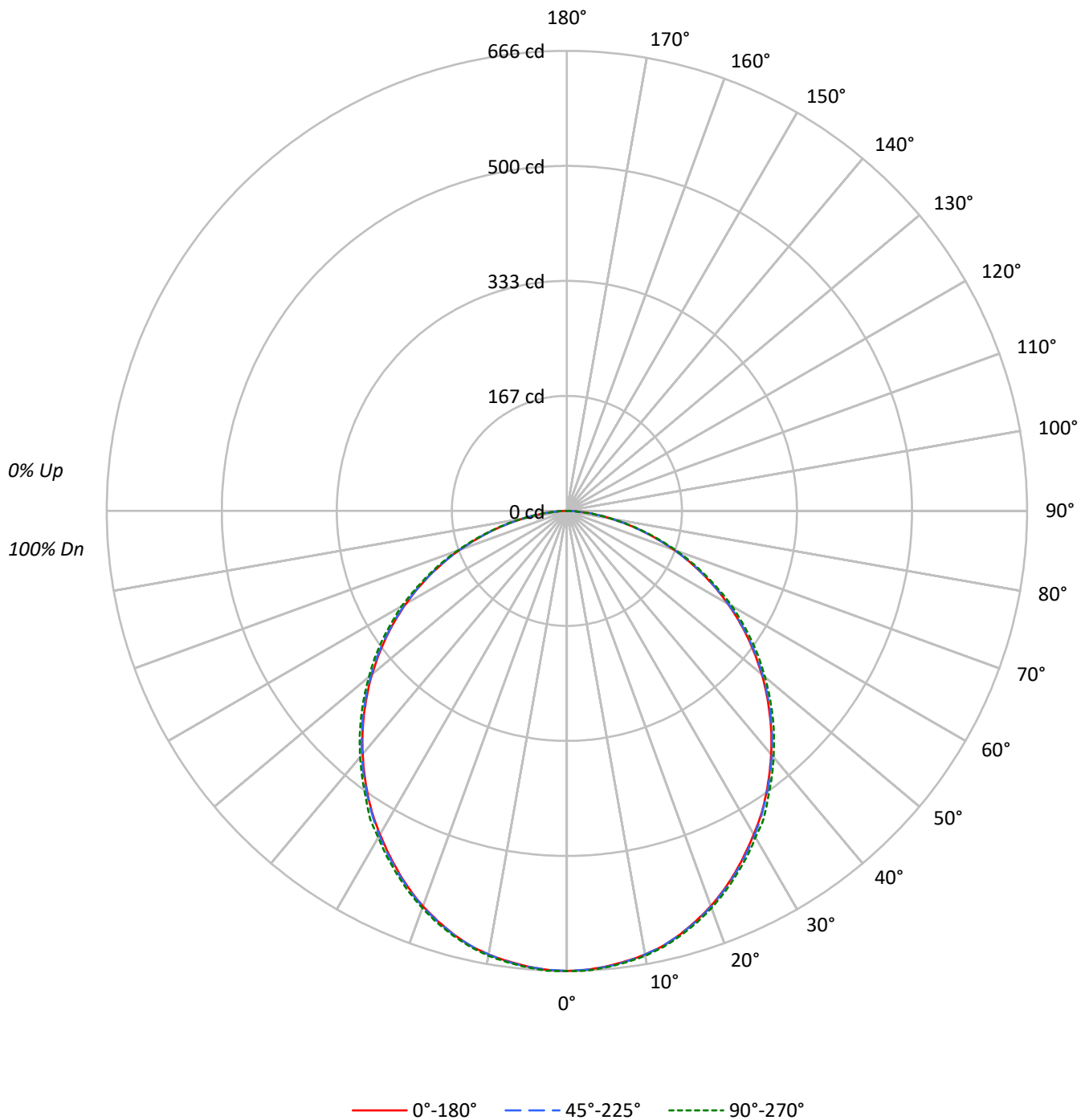
Lumens per Lamp: N/A
Luminaire Lumens: 1799.8 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	1792	1792	1792
5°	1788	1789	1791
10°	1782	1782	1788
15°	1767	1768	1774
20°	1744	1746	1753
25°	1713	1717	1725
30°	1681	1686	1697
35°	1650	1654	1667
40°	1615	1620	1635
45°	1580	1587	1603
50°	1541	1549	1566
55°	1498	1505	1529
60°	1448	1454	1486
65°	1385	1389	1415
70°	1300	1301	1329
75°	1181	1177	1204
80°	1015	1010	1027
85°	787	775	778

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.9	3.5
10°-20°	179.0	9.9
20°-30°	266.5	14.8
30°-40°	315.2	17.5
40°-50°	321.8	17.9
50°-60°	287.2	16.0
60°-70°	216.3	12.0
70°-80°	120.6	6.7
80°-90°	30.2	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°	508.5	28.3
0°-40°	823.7	45.8
0°-60°	1432.7	79.6
0°-90°	1799.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1799.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	662	663	662	662	663	63
15°	634	635	635	635	637	179
25°	577	578	578	580	581	266
35°	502	502	504	505	508	314
45°	415	415	417	419	421	320
55°	319	319	321	323	326	285
65°	218	217	218	220	222	215
75°	114	113	113	114	116	120
85°	26	25	25	25	25	31
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	666.1	666.1	666.1	666.1	666.1
2.5°	665.0	666.1	664.7	665.0	666.2
5°	661.8	663.1	662.4	662.5	663.2
7.5°	657.4	659.1	658.1	658.4	659.1
10°	652.2	653.4	652.3	653.0	654.2
12.5°	644.7	645.3	644.7	645.0	646.4
15°	634.4	635.1	634.8	635.3	636.6
17.5°	622.2	623.1	622.9	624.0	625.0
20°	609.1	609.3	609.8	610.9	612.0
22.5°	593.7	594.1	594.7	596.2	597.3
25°	576.9	577.6	578.2	579.8	580.9
27.5°	559.1	559.8	560.7	562.4	564.2
30°	540.9	540.9	542.7	544.3	546.0
32.5°	522.5	521.8	523.5	525.6	529.6
35°	502.3	501.7	503.5	505.4	507.5
37.5°	481.2	480.7	482.8	484.9	486.8
40°	459.8	459.2	461.3	463.4	465.4
42.5°	437.9	437.6	439.5	441.6	443.8
45°	415.1	415.0	416.9	419.0	421.2
47.5°	391.9	391.7	393.6	395.8	397.7
50°	368.2	367.9	369.9	372.1	374.1
52.5°	343.8	343.8	345.6	347.5	350.7
55°	319.3	318.8	320.8	323.0	326.0
57.5°	294.4	293.9	295.7	297.9	300.6
60°	269.1	268.5	270.2	272.4	276.2
62.5°	243.4	242.6	244.2	246.3	248.6
65°	217.5	216.7	218.2	220.1	222.3
67.5°	191.4	190.4	192.0	193.6	195.7
70°	165.2	164.2	165.3	167.0	168.9
72.5°	139.1	138.2	139.1	139.8	142.2
75°	113.6	112.7	113.2	113.8	115.8
77.5°	88.8	87.8	88.9	89.2	90.5
80°	65.5	64.5	65.2	65.4	66.3
82.5°	44.3	43.4	44.4	43.7	44.5
85°	25.5	24.8	25.1	24.8	25.2
87.5°	10.1	9.5	9.7	9.1	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)