

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: P835640

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1STD-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835640
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-LD4-1STD-35-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

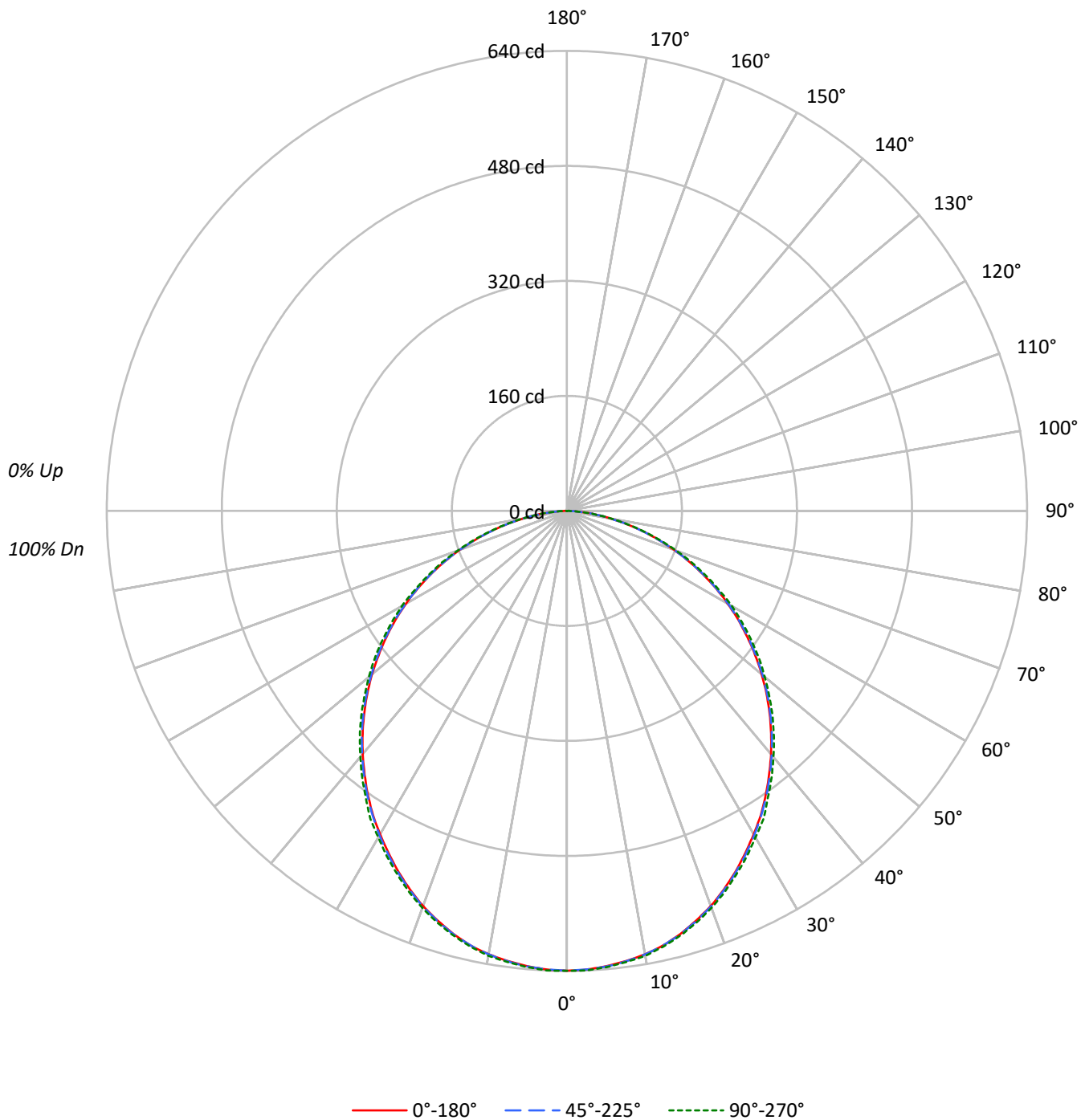
Lumens per Lamp: N/A
Luminaire Lumens: 1728.7 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	1722	1722	1722
5°	1717	1719	1721
10°	1712	1712	1717
15°	1697	1699	1703
20°	1676	1677	1683
25°	1645	1649	1656
30°	1614	1620	1629
35°	1585	1589	1601
40°	1551	1557	1570
45°	1517	1524	1539
50°	1481	1487	1504
55°	1438	1445	1469
60°	1391	1397	1428
65°	1330	1334	1359
70°	1249	1249	1277
75°	1134	1130	1157
80°	975	972	987
85°	756	744	747

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	3.5
10°-20°	172.0	9.9
20°-30°	256.0	14.8
30°-40°	302.7	17.5
40°-50°	309.1	17.9
50°-60°	275.8	16.0
60°-70°	207.8	12.0
70°-80°	115.9	6.7
80°-90°	29.0	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°	488.4	28.3
0°-40°	791.2	45.8
0°-60°	1376.1	79.6
0°-90°	1728.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1728.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	640	640	640	640	640	
5°	636	637	636	636	637	60
15°	609	610	610	610	611	172
25°	554	555	555	557	558	255
35°	482	482	484	485	487	302
45°	399	399	400	402	404	308
55°	307	306	308	310	313	274
65°	209	208	210	211	214	207
75°	109	108	109	109	111	116
85°	24	24	24	24	24	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	639.8	639.8	639.8	639.8	639.8
2.5°	638.7	639.8	638.4	638.7	639.9
5°	635.6	636.8	636.2	636.3	637.0
7.5°	631.4	633.0	632.1	632.3	633.0
10°	626.4	627.6	626.5	627.2	628.4
12.5°	619.2	619.8	619.2	619.5	620.8
15°	609.3	610.0	609.7	610.2	611.4
17.5°	597.6	598.4	598.3	599.4	600.3
20°	585.1	585.2	585.7	586.8	587.8
22.5°	570.2	570.6	571.1	572.6	573.7
25°	554.1	554.7	555.4	556.8	557.9
27.5°	537.0	537.6	538.6	540.1	541.9
30°	519.5	519.5	521.2	522.8	524.4
32.5°	501.9	501.2	502.8	504.8	508.6
35°	482.4	481.9	483.6	485.4	487.4
37.5°	462.1	461.7	463.7	465.7	467.6
40°	441.6	441.1	443.1	445.0	447.0
42.5°	420.5	420.3	422.1	424.1	426.2
45°	398.7	398.6	400.4	402.4	404.5
47.5°	376.4	376.2	378.0	380.1	382.0
50°	353.7	353.4	355.2	357.4	359.3
52.5°	330.2	330.2	331.9	333.8	336.8
55°	306.6	306.2	308.1	310.2	313.1
57.5°	282.8	282.3	284.0	286.1	288.8
60°	258.4	257.9	259.5	261.6	265.3
62.5°	233.8	233.0	234.6	236.6	238.8
65°	208.9	208.1	209.5	211.4	213.5
67.5°	183.8	182.9	184.4	186.0	188.0
70°	158.7	157.8	158.8	160.4	162.3
72.5°	133.6	132.7	133.6	134.3	136.6
75°	109.1	108.2	108.7	109.3	111.3
77.5°	85.3	84.4	85.4	85.7	86.9
80°	62.9	62.0	62.7	62.8	63.7
82.5°	42.5	41.7	42.7	42.0	42.8
85°	24.5	23.8	24.1	23.8	24.2
87.5°	9.7	9.1	9.3	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)