

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: P835658

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835658
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-40-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

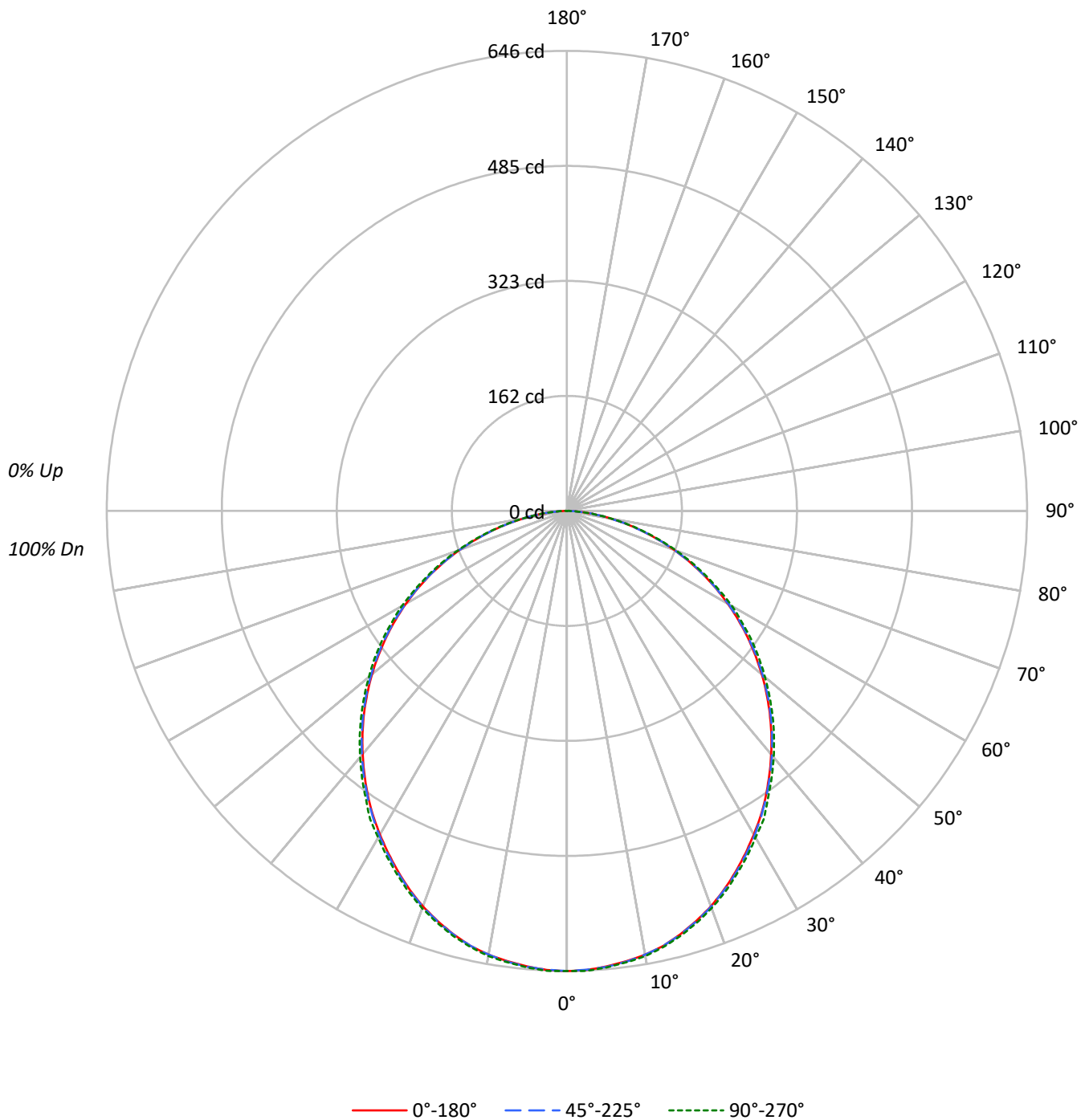
Lumens per Lamp: N/A
Luminaire Lumens: 1746.1 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	1739	1739	1739
5°	1734	1736	1738
10°	1729	1729	1734
15°	1714	1716	1721
20°	1692	1694	1700
25°	1662	1666	1673
30°	1630	1636	1646
35°	1601	1605	1618
40°	1567	1572	1586
45°	1533	1539	1555
50°	1495	1502	1520
55°	1453	1460	1484
60°	1405	1411	1442
65°	1344	1348	1373
70°	1261	1262	1290
75°	1146	1142	1169
80°	986	981	998
85°	766	753	756

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	3.5
10°-20°	173.7	9.9
20°-30°	258.6	14.8
30°-40°	305.8	17.5
40°-50°	312.2	17.9
50°-60°	278.6	16.0
60°-70°	209.8	12.0
70°-80°	117.0	6.7
80°-90°	29.3	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°	493.4	28.3
0°-40°	799.2	45.8
0°-60°	1390.0	79.6
0°-90°	1746.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1746.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	646	646	646	646	646	
5°	642	643	643	643	643	61
15°	615	616	616	616	618	173
25°	560	560	561	562	564	258
35°	487	487	488	490	492	305
45°	403	403	404	406	409	311
55°	310	309	311	313	316	277
65°	211	210	212	214	216	209
75°	110	109	110	110	112	117
85°	25	24	24	24	24	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	646.2	646.2	646.2	646.2	646.2
2.5°	645.1	646.2	644.9	645.1	646.4
5°	642.1	643.3	642.6	642.7	643.4
7.5°	637.8	639.4	638.5	638.7	639.4
10°	632.7	633.9	632.8	633.5	634.7
12.5°	625.5	626.0	625.5	625.7	627.1
15°	615.4	616.1	615.8	616.4	617.6
17.5°	603.7	604.5	604.3	605.4	606.3
20°	591.0	591.1	591.6	592.7	593.8
22.5°	576.0	576.4	576.9	578.4	579.5
25°	559.7	560.3	561.0	562.5	563.5
27.5°	542.4	543.1	544.0	545.6	547.3
30°	524.7	524.7	526.5	528.1	529.7
32.5°	506.9	506.3	507.9	509.9	513.8
35°	487.3	486.7	488.5	490.3	492.4
37.5°	466.8	466.4	468.4	470.4	472.3
40°	446.1	445.5	447.5	449.5	451.5
42.5°	424.8	424.5	426.4	428.4	430.5
45°	402.7	402.6	404.5	406.5	408.6
47.5°	380.2	380.0	381.8	384.0	385.9
50°	357.2	357.0	358.8	361.0	363.0
52.5°	333.5	333.5	335.3	337.2	340.2
55°	309.7	309.3	311.2	313.3	316.3
57.5°	285.6	285.1	286.9	289.0	291.7
60°	261.0	260.5	262.1	264.2	268.0
62.5°	236.1	235.3	236.9	239.0	241.2
65°	211.0	210.2	211.7	213.5	215.7
67.5°	185.7	184.8	186.2	187.8	189.9
70°	160.3	159.3	160.4	162.0	163.9
72.5°	135.0	134.1	135.0	135.7	137.9
75°	110.2	109.3	109.8	110.4	112.4
77.5°	86.2	85.2	86.3	86.6	87.8
80°	63.6	62.6	63.3	63.4	64.4
82.5°	42.9	42.1	43.1	42.4	43.2
85°	24.8	24.1	24.4	24.1	24.5
87.5°	9.8	9.2	9.4	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)