

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: P835731

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1HI-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835731
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-30-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

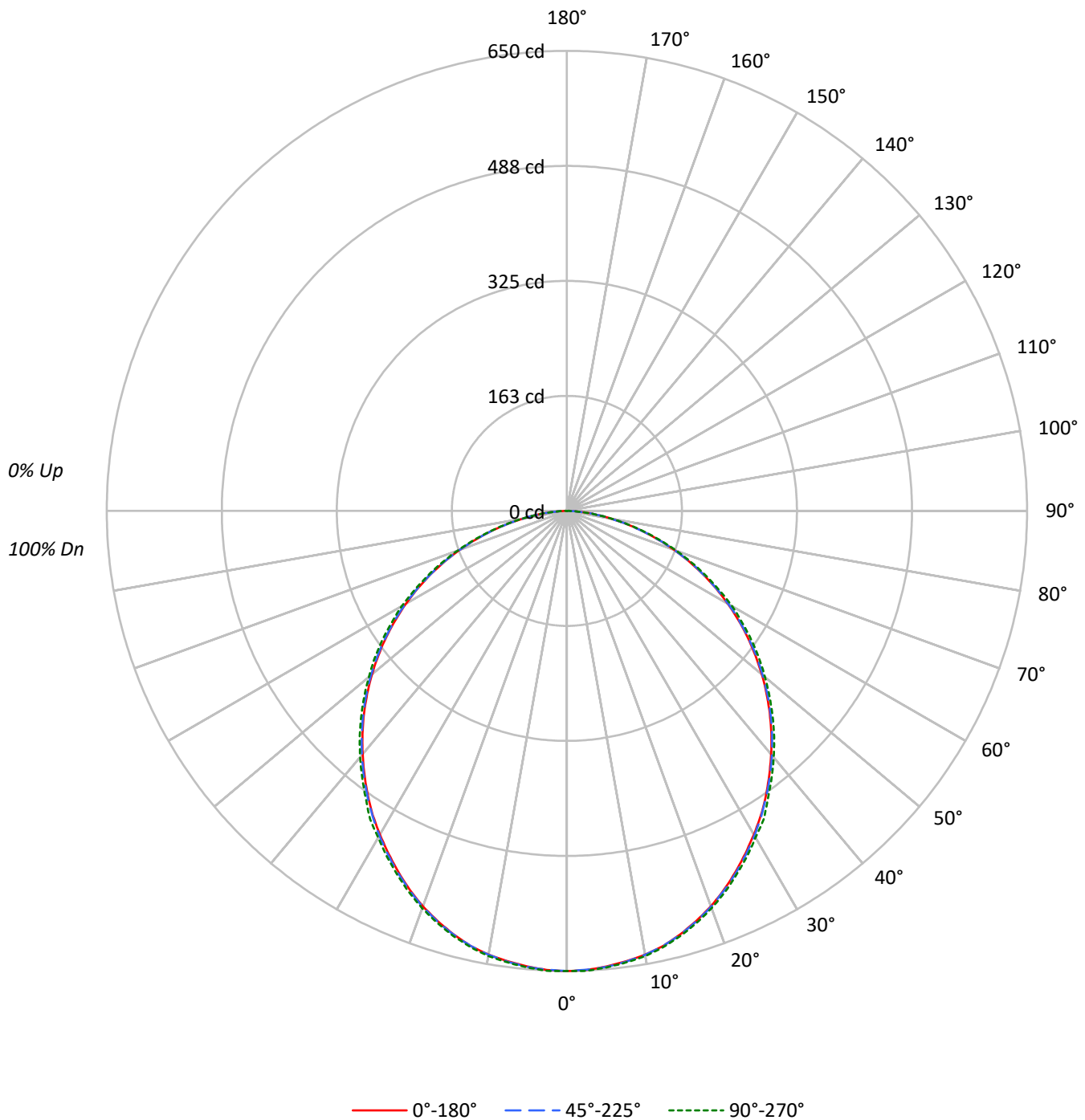
Lumens per Lamp: N/A
Luminaire Lumens: 1757.0 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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°	1750	1750	1750
5°	1745	1747	1749
10°	1740	1740	1745
15°	1725	1726	1731
20°	1703	1705	1711
25°	1672	1676	1684
30°	1641	1646	1656
35°	1611	1615	1627
40°	1577	1582	1596
45°	1542	1549	1564
50°	1505	1512	1529
55°	1462	1469	1493
60°	1413	1419	1451
65°	1352	1356	1382
70°	1269	1270	1297
75°	1153	1149	1176
80°	990	987	1004
85°	769	756	760

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	3.5
10°-20°	174.8	9.9
20°-30°	260.2	14.8
30°-40°	307.7	17.5
40°-50°	314.1	17.9
50°-60°	280.3	16.0
60°-70°	211.1	12.0
70°-80°	117.7	6.7
80°-90°	29.5	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°	496.4	28.3
0°-40°	804.1	45.8
0°-60°	1398.6	79.6
0°-90°	1757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1757.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	650	650	650	650	650	
5°	646	647	647	647	647	61
15°	619	620	620	620	621	175
25°	563	564	564	566	567	259
35°	490	490	492	493	495	307
45°	405	405	407	409	411	313
55°	312	311	313	315	318	279
65°	212	212	213	215	217	210
75°	111	110	110	111	113	118
85°	25	24	24	24	25	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	650.2	650.2	650.2	650.2	650.2
2.5°	649.2	650.2	648.9	649.2	650.4
5°	646.1	647.3	646.6	646.7	647.4
7.5°	641.7	643.4	642.4	642.7	643.4
10°	636.6	637.8	636.8	637.4	638.7
12.5°	629.4	629.9	629.4	629.6	631.0
15°	619.3	619.9	619.7	620.2	621.4
17.5°	607.4	608.2	608.1	609.2	610.1
20°	594.6	594.8	595.3	596.4	597.5
22.5°	579.6	580.0	580.5	582.0	583.1
25°	563.1	563.8	564.5	566.0	567.0
27.5°	545.8	546.4	547.4	549.0	550.7
30°	528.0	528.0	529.7	531.4	533.0
32.5°	510.1	509.4	511.0	513.0	517.0
35°	490.3	489.8	491.5	493.4	495.4
37.5°	469.7	469.3	471.3	473.3	475.2
40°	448.8	448.3	450.3	452.3	454.4
42.5°	427.4	427.2	429.0	431.1	433.2
45°	405.2	405.1	407.0	409.0	411.1
47.5°	382.6	382.3	384.2	386.4	388.3
50°	359.4	359.2	361.1	363.2	365.2
52.5°	335.6	335.6	337.4	339.2	342.3
55°	311.7	311.2	313.1	315.3	318.2
57.5°	287.4	286.9	288.6	290.8	293.5
60°	262.6	262.1	263.7	265.9	269.6
62.5°	237.6	236.8	238.4	240.4	242.7
65°	212.3	211.5	213.0	214.9	217.0
67.5°	186.9	185.9	187.4	189.0	191.0
70°	161.3	160.3	161.4	163.0	164.9
72.5°	135.8	134.9	135.8	136.5	138.8
75°	110.9	110.0	110.5	111.1	113.1
77.5°	86.7	85.8	86.8	87.1	88.3
80°	63.9	63.0	63.7	63.8	64.8
82.5°	43.2	42.4	43.3	42.7	43.5
85°	24.9	24.2	24.5	24.2	24.6
87.5°	9.8	9.3	9.4	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)