

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: P835676

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1STD-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835676
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-50-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

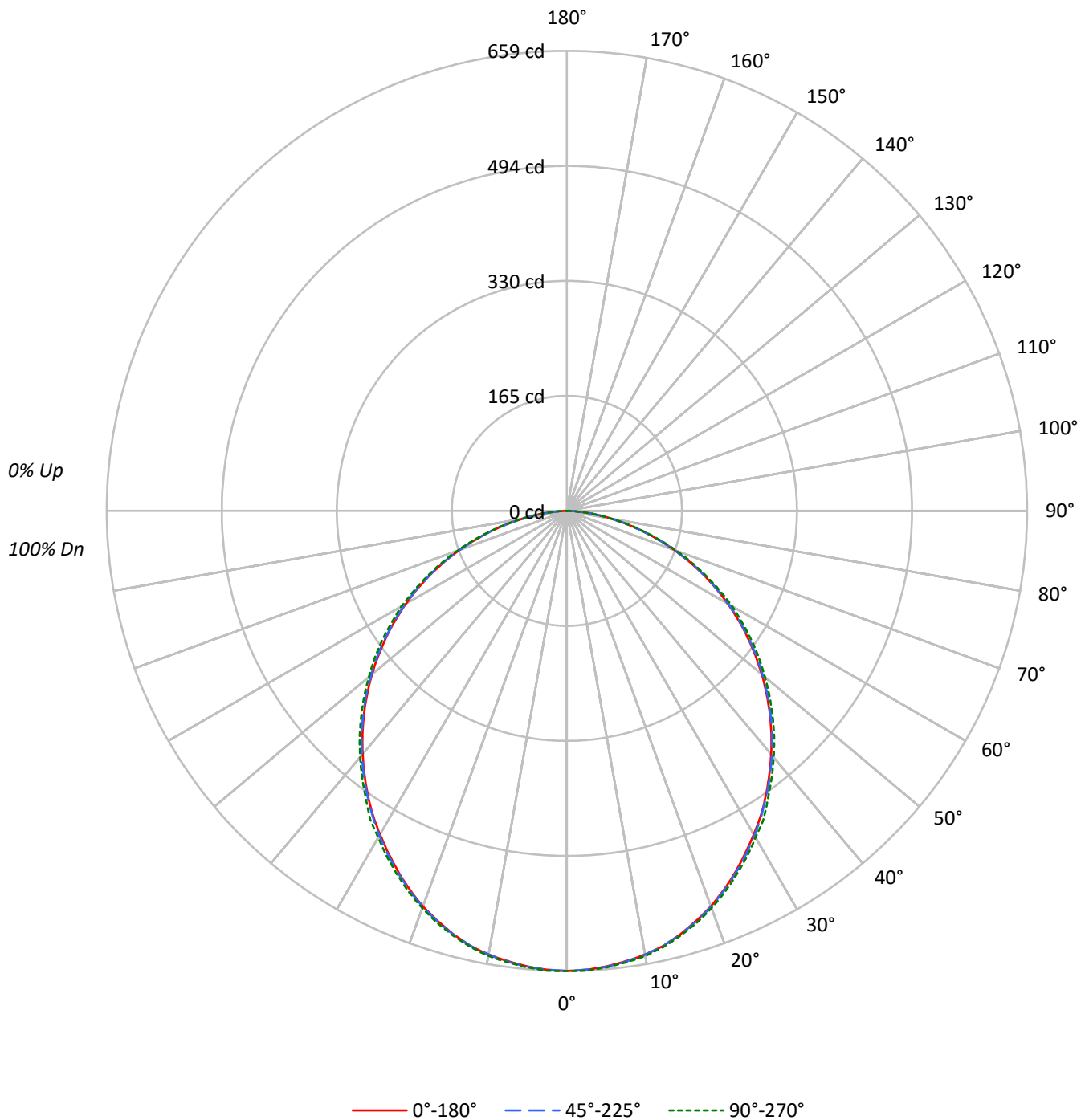
Lumens per Lamp: N/A
Luminaire Lumens: 1781.1 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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°	1774	1774	1774
5°	1769	1771	1773
10°	1764	1764	1769
15°	1749	1750	1755
20°	1726	1728	1734
25°	1695	1699	1707
30°	1663	1669	1679
35°	1633	1637	1650
40°	1598	1604	1618
45°	1563	1570	1586
50°	1526	1532	1550
55°	1482	1489	1514
60°	1433	1439	1471
65°	1370	1375	1401
70°	1286	1287	1316
75°	1169	1164	1192
80°	1004	1000	1017
85°	778	766	772

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	3.5
10°-20°	177.2	9.9
20°-30°	263.8	14.8
30°-40°	311.9	17.5
40°-50°	318.4	17.9
50°-60°	284.2	16.0
60°-70°	214.0	12.0
70°-80°	119.4	6.7
80°-90°	29.9	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°	503.2	28.3
0°-40°	815.1	45.8
0°-60°	1417.7	79.6
0°-90°	1781.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1781.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	659	659	659	659	659	
5°	655	656	656	656	656	62
15°	628	628	628	629	630	177
25°	571	572	572	574	575	263
35°	497	496	498	500	502	311
45°	411	411	412	415	417	317
55°	316	316	317	320	323	282
65°	215	214	216	218	220	213
75°	112	112	112	113	115	119
85°	25	25	25	25	25	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	659.1	659.1	659.1	659.1	659.1
2.5°	658.0	659.1	657.8	658.0	659.3
5°	654.9	656.1	655.5	655.6	656.3
7.5°	650.5	652.2	651.2	651.5	652.2
10°	645.4	646.6	645.5	646.2	647.4
12.5°	638.0	638.5	638.0	638.3	639.6
15°	627.8	628.4	628.2	628.7	629.9
17.5°	615.7	616.6	616.4	617.5	618.5
20°	602.8	602.9	603.5	604.6	605.6
22.5°	587.5	587.9	588.5	590.0	591.0
25°	570.8	571.5	572.2	573.7	574.8
27.5°	553.2	553.9	554.9	556.5	558.3
30°	535.2	535.2	537.0	538.6	540.3
32.5°	517.1	516.4	518.0	520.1	524.0
35°	497.0	496.5	498.2	500.2	502.2
37.5°	476.1	475.7	477.8	479.8	481.7
40°	455.0	454.4	456.5	458.5	460.6
42.5°	433.3	433.0	434.9	437.0	439.2
45°	410.8	410.6	412.5	414.6	416.8
47.5°	387.8	387.6	389.5	391.7	393.6
50°	364.4	364.1	366.0	368.2	370.2
52.5°	340.2	340.2	342.0	343.9	347.0
55°	315.9	315.5	317.4	319.6	322.6
57.5°	291.4	290.8	292.6	294.8	297.5
60°	266.2	265.7	267.3	269.5	273.3
62.5°	240.9	240.0	241.7	243.7	246.1
65°	215.2	214.4	215.9	217.8	220.0
67.5°	189.4	188.5	190.0	191.6	193.6
70°	163.5	162.5	163.6	165.3	167.2
72.5°	137.7	136.7	137.7	138.4	140.7
75°	112.4	111.5	112.0	112.6	114.6
77.5°	87.9	86.9	88.0	88.3	89.5
80°	64.8	63.9	64.5	64.7	65.6
82.5°	43.8	43.0	43.9	43.3	44.1
85°	25.2	24.6	24.8	24.6	25.0
87.5°	10.0	9.4	9.6	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)