

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: P834992

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1STD-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834992
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-1STD-35-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

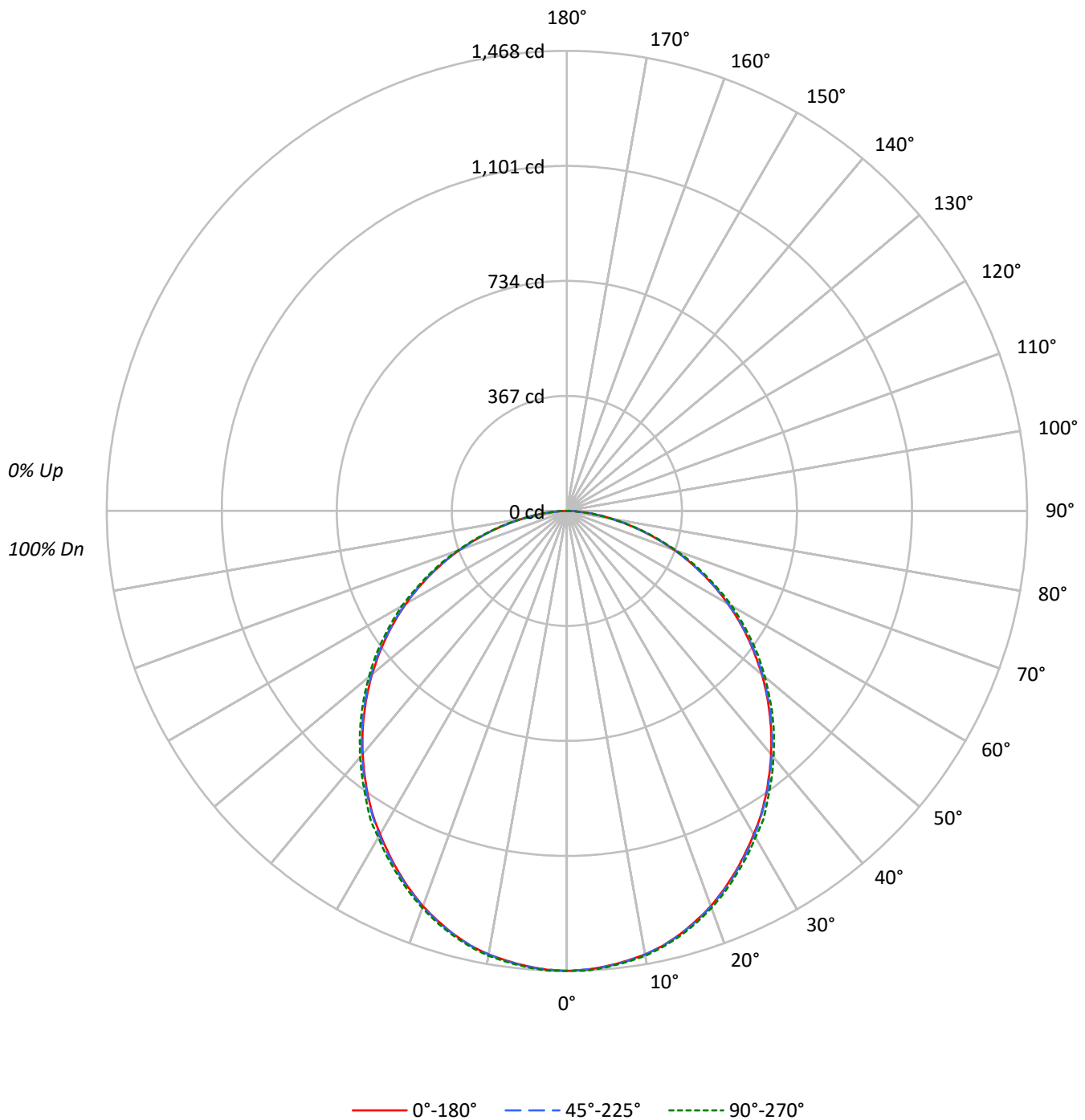
Lumens per Lamp: N/A
Luminaire Lumens: 3966.2 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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

Peachtree City, GA 30269



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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	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1975	1975	1975
5°	1970	1971	1974
10°	1963	1964	1970
15°	1947	1948	1954
20°	1922	1924	1931
25°	1887	1892	1900
30°	1852	1858	1869
35°	1818	1822	1837
40°	1780	1785	1802
45°	1740	1748	1766
50°	1698	1706	1726
55°	1650	1658	1685
60°	1595	1602	1638
65°	1526	1531	1560
70°	1432	1434	1465
75°	1302	1297	1327
80°	1119	1113	1133
85°	868	854	858

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	3.5
10°-20°	394.5	9.9
20°-30°	587.4	14.8
30°-40°	694.6	17.5
40°-50°	709.1	17.9
50°-60°	632.8	16.0
60°-70°	476.6	12.0
70°-80°	265.8	6.7
80°-90°	66.6	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°	1120.6	28.3
0°-40°	1815.2	45.8
0°-60°	3157.2	79.6
0°-90°	3966.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3966.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1468	1468	1468	1468	1468	
5°	1458	1461	1460	1460	1461	139
15°	1398	1399	1399	1400	1403	394
25°	1271	1273	1274	1278	1280	586
35°	1107	1106	1110	1114	1118	692
45°	915	914	919	923	928	706
55°	704	703	707	712	718	629
65°	479	477	481	485	490	474
75°	250	248	250	251	255	265
85°	56	55	55	55	56	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1467.8	1467.8	1467.8	1467.8	1467.8
2.5°	1465.4	1467.8	1464.8	1465.4	1468.1
5°	1458.4	1461.1	1459.6	1459.9	1461.4
7.5°	1448.7	1452.3	1450.2	1450.8	1452.3
10°	1437.1	1439.9	1437.4	1439.0	1441.7
12.5°	1420.7	1421.9	1420.7	1421.3	1424.4
15°	1397.9	1399.4	1398.8	1400.1	1402.8
17.5°	1371.2	1373.0	1372.7	1375.1	1377.3
20°	1342.3	1342.6	1343.8	1346.3	1348.7
22.5°	1308.3	1309.2	1310.4	1313.7	1316.2
25°	1271.2	1272.7	1274.2	1277.6	1280.0
27.5°	1232.0	1233.5	1235.6	1239.3	1243.2
30°	1191.9	1191.9	1195.8	1199.5	1203.1
32.5°	1151.5	1149.9	1153.6	1158.2	1167.0
35°	1106.8	1105.6	1109.5	1113.8	1118.3
37.5°	1060.3	1059.4	1063.9	1068.5	1072.8
40°	1013.2	1012.0	1016.5	1021.1	1025.7
42.5°	964.9	964.3	968.5	973.1	977.9
45°	914.7	914.4	918.7	923.2	928.1
47.5°	863.7	863.1	867.3	872.2	876.4
50°	811.4	810.8	815.1	819.9	824.5
52.5°	757.6	757.6	761.6	765.8	772.8
55°	703.5	702.6	706.9	711.7	718.4
57.5°	648.8	647.6	651.6	656.4	662.5
60°	592.9	591.7	595.3	600.2	608.7
62.5°	536.4	534.6	538.2	542.8	547.9
65°	479.2	477.4	480.8	485.0	489.9
67.5°	421.8	419.7	423.0	426.7	431.2
70°	364.1	361.9	364.4	368.0	372.3
72.5°	306.6	304.5	306.6	308.2	313.3
75°	250.4	248.3	249.5	250.7	255.3
77.5°	195.7	193.6	196.0	196.6	199.4
80°	144.4	142.2	143.7	144.0	146.2
82.5°	97.6	95.7	97.9	96.3	98.2
85°	56.2	54.7	55.3	54.7	55.6
87.5°	22.2	21.0	21.3	20.1	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)