

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: P835119

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1HI-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835119
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-LD4-1HI-40-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

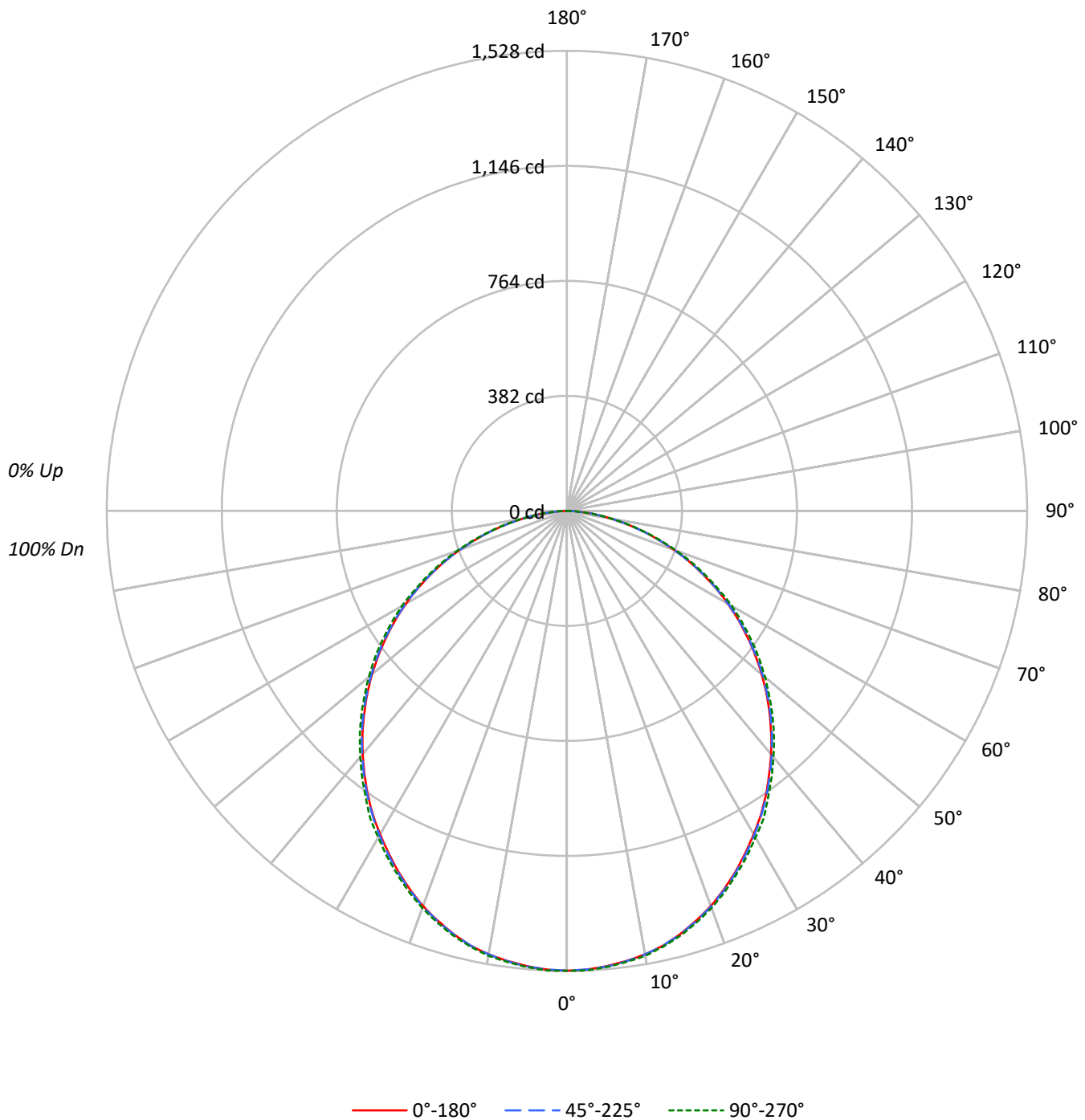
Lumens per Lamp: N/A
Luminaire Lumens: 4127.4 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2055	2055	2055
5°	2050	2051	2054
10°	2043	2044	2050
15°	2026	2028	2033
20°	2000	2002	2010
25°	1964	1969	1977
30°	1927	1933	1945
35°	1892	1896	1912
40°	1852	1858	1875
45°	1811	1819	1838
50°	1768	1775	1796
55°	1717	1726	1754
60°	1660	1667	1704
65°	1588	1593	1623
70°	1491	1492	1524
75°	1355	1350	1381
80°	1164	1159	1179
85°	903	889	894

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.3	3.5
10°-20°	410.6	9.9
20°-30°	611.2	14.8
30°-40°	722.8	17.5
40°-50°	737.9	17.9
50°-60°	658.5	16.0
60°-70°	496.0	12.0
70°-80°	276.6	6.7
80°-90°	69.3	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°	1166.1	28.3
0°-40°	1889.0	45.8
0°-60°	3285.4	79.6
0°-90°	4127.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4127.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1528	1528	1528	1528	1528	
5°	1518	1520	1519	1519	1521	144
15°	1455	1456	1456	1457	1460	410
25°	1323	1324	1326	1330	1332	609
35°	1152	1150	1155	1159	1164	720
45°	952	952	956	961	966	734
55°	732	731	736	741	748	654
65°	499	497	500	505	510	493
75°	261	258	260	261	266	276
85°	58	57	58	57	58	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1527.5	1527.5	1527.5	1527.5	1527.5
2.5°	1524.9	1527.5	1524.3	1524.9	1527.8
5°	1517.7	1520.5	1518.9	1519.2	1520.8
7.5°	1507.5	1511.3	1509.1	1509.8	1511.3
10°	1495.5	1498.4	1495.8	1497.4	1500.3
12.5°	1478.4	1479.7	1478.4	1479.1	1482.2
15°	1454.7	1456.3	1455.7	1456.9	1459.8
17.5°	1426.9	1428.8	1428.5	1431.0	1433.2
20°	1396.9	1397.2	1398.4	1401.0	1403.5
22.5°	1361.4	1362.4	1363.7	1367.1	1369.7
25°	1322.9	1324.4	1326.0	1329.5	1332.0
27.5°	1282.1	1283.6	1285.9	1289.6	1293.8
30°	1240.3	1240.3	1244.4	1248.2	1252.0
32.5°	1198.3	1196.7	1200.5	1205.2	1214.4
35°	1151.8	1150.5	1154.6	1159.0	1163.8
37.5°	1103.4	1102.4	1107.2	1111.9	1116.3
40°	1054.4	1053.1	1057.8	1062.6	1067.3
42.5°	1004.1	1003.4	1007.9	1012.6	1017.7
45°	951.9	951.6	956.0	960.8	965.8
47.5°	898.8	898.1	902.6	907.6	912.1
50°	844.4	843.7	848.2	853.2	858.0
52.5°	788.4	788.4	792.5	796.9	804.2
55°	732.1	731.2	735.6	740.6	747.6
57.5°	675.2	673.9	678.0	683.1	689.4
60°	617.0	615.7	619.5	624.6	633.4
62.5°	558.2	556.3	560.1	564.8	570.2
65°	498.7	496.8	500.3	504.7	509.8
67.5°	438.9	436.7	440.2	444.0	448.8
70°	378.9	376.6	379.2	383.0	387.4
72.5°	319.1	316.9	319.1	320.7	326.0
75°	260.6	258.4	259.6	260.9	265.6
77.5°	203.7	201.4	204.0	204.6	207.5
80°	150.2	148.0	149.6	149.9	152.1
82.5°	101.5	99.6	101.8	100.2	102.1
85°	58.5	56.9	57.6	56.9	57.9
87.5°	23.1	21.8	22.1	20.9	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)