

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: P834426

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1HI-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834426
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-1HI-35-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

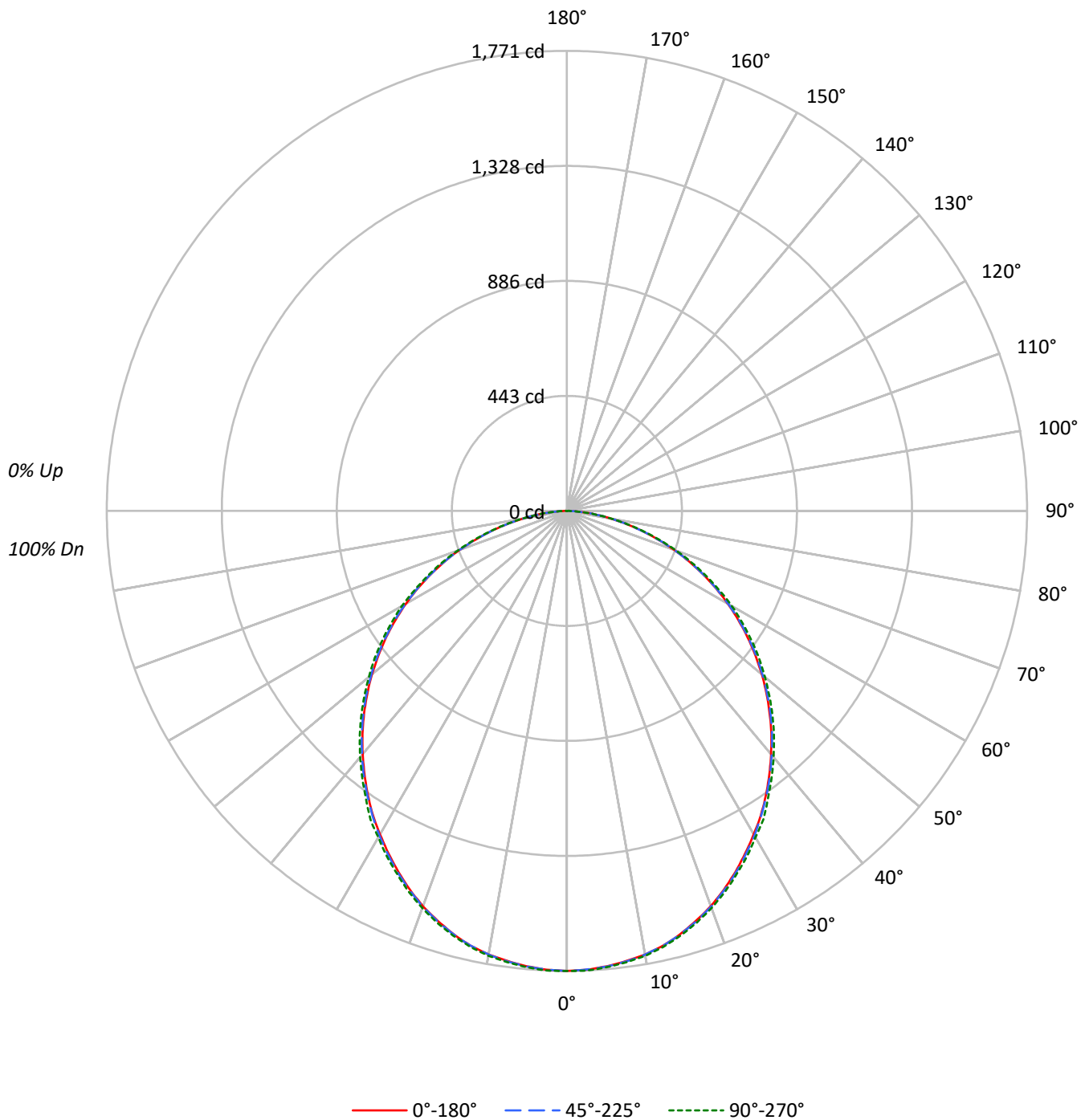
Lumens per Lamp: N/A
Luminaire Lumens: 4785.5 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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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	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4766	4766	4766
5°	4753	4757	4763
10°	4738	4739	4753
15°	4699	4702	4715
20°	4638	4643	4660
25°	4554	4565	4586
30°	4469	4483	4511
35°	4387	4398	4433
40°	4294	4308	4347
45°	4200	4219	4262
50°	4099	4117	4165
55°	3983	4001	4067
60°	3850	3866	3953
65°	3682	3694	3764
70°	3456	3459	3534
75°	3141	3130	3202
80°	2700	2687	2734
85°	2093	2059	2072

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	3.5
10°-20°	476.1	9.9
20°-30°	708.7	14.8
30°-40°	838.1	17.5
40°-50°	855.6	17.9
50°-60°	763.6	16.0
60°-70°	575.1	12.0
70°-80°	320.7	6.7
80°-90°	80.3	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°	1352.1	28.3
0°-40°	2190.2	45.8
0°-60°	3809.4	79.6
0°-90°	4785.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4785.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1771	1771	1771	1771	1771	
5°	1760	1763	1761	1762	1763	167
15°	1687	1688	1688	1689	1693	475
25°	1534	1536	1538	1542	1544	707
35°	1335	1334	1339	1344	1349	835
45°	1104	1103	1108	1114	1120	851
55°	849	848	853	859	867	759
65°	578	576	580	585	591	572
75°	302	300	301	302	308	320
85°	68	66	67	66	67	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1771.0	1771.0	1771.0	1771.0	1771.0
2.5°	1768.1	1771.0	1767.4	1768.1	1771.4
5°	1759.7	1763.0	1761.1	1761.5	1763.3
7.5°	1747.9	1752.3	1749.8	1750.5	1752.3
10°	1734.0	1737.3	1734.4	1736.2	1739.5
12.5°	1714.2	1715.7	1714.2	1714.9	1718.6
15°	1686.7	1688.5	1687.8	1689.3	1692.6
17.5°	1654.4	1656.6	1656.3	1659.2	1661.8
20°	1619.6	1620.0	1621.4	1624.4	1627.3
22.5°	1578.5	1579.6	1581.1	1585.1	1588.1
25°	1533.8	1535.6	1537.5	1541.5	1544.4
27.5°	1486.5	1488.3	1490.9	1495.3	1500.1
30°	1438.1	1438.1	1442.9	1447.3	1451.7
32.5°	1389.3	1387.5	1391.9	1397.4	1408.0
35°	1335.4	1334.0	1338.7	1343.9	1349.4
37.5°	1279.3	1278.2	1283.7	1289.2	1294.4
40°	1222.5	1221.0	1226.5	1232.0	1237.5
42.5°	1164.2	1163.5	1168.6	1174.1	1180.0
45°	1103.7	1103.3	1108.5	1114.0	1119.8
47.5°	1042.1	1041.4	1046.5	1052.4	1057.5
50°	979.0	978.3	983.4	989.3	994.8
52.5°	914.1	914.1	918.9	924.0	932.5
55°	848.9	847.8	852.9	858.8	866.8
57.5°	782.9	781.4	786.2	792.0	799.4
60°	715.4	713.9	718.3	724.2	734.5
62.5°	647.2	645.0	649.4	654.9	661.1
65°	578.2	576.0	580.1	585.2	591.1
67.5°	508.9	506.4	510.4	514.8	520.3
70°	439.3	436.7	439.6	444.0	449.2
72.5°	370.0	367.4	370.0	371.8	378.0
75°	302.1	299.6	301.0	302.5	308.0
77.5°	236.1	233.6	236.5	237.2	240.5
80°	174.2	171.6	173.4	173.8	176.4
82.5°	117.7	115.5	118.1	116.2	118.4
85°	67.8	66.0	66.7	66.0	67.1
87.5°	26.8	25.3	25.7	24.2	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)