

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: P834956

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1STD-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834956
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-27-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

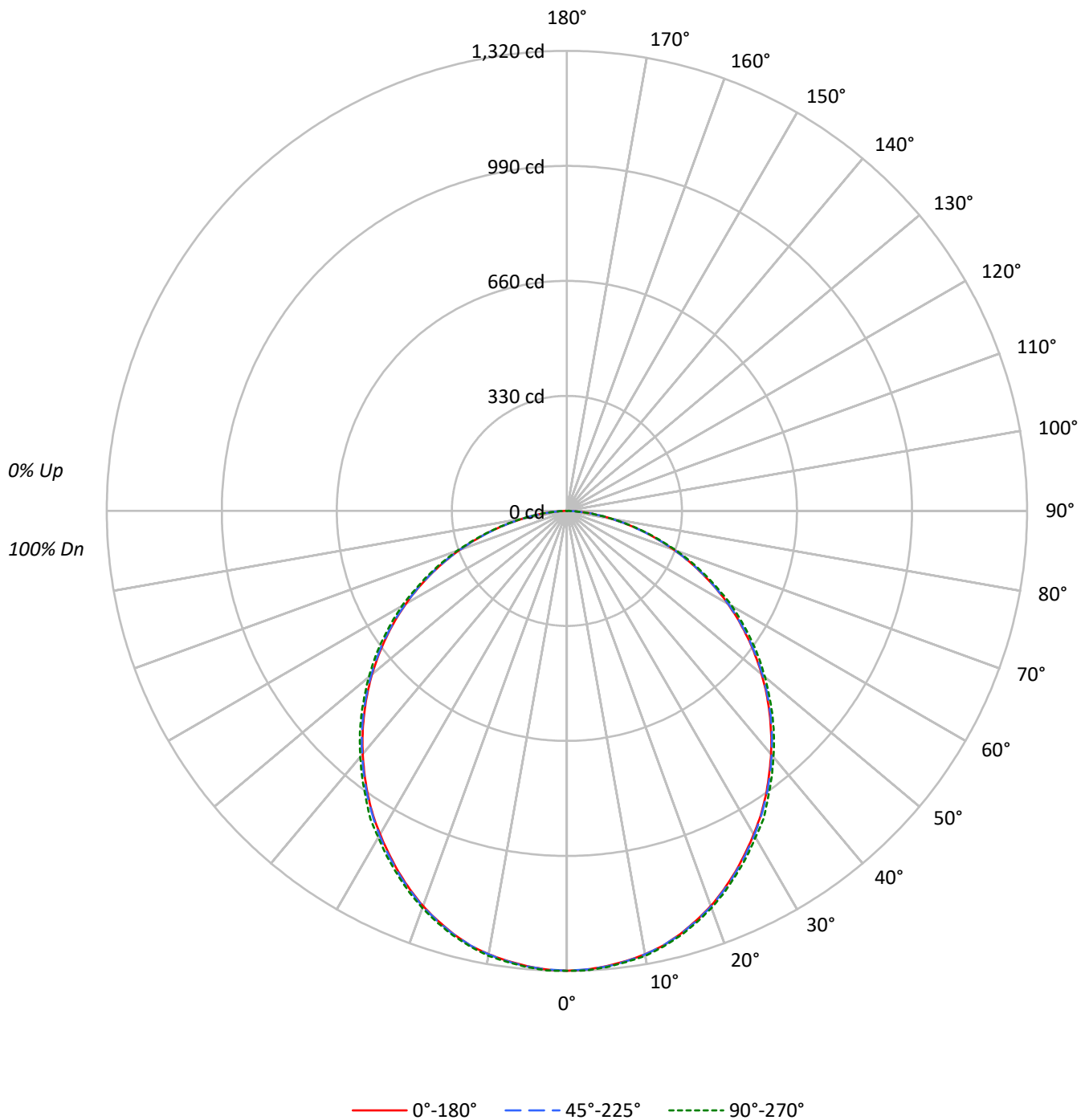
Lumens per Lamp: N/A
Luminaire Lumens: 3565.6 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1776	1776	1776
5°	1771	1772	1774
10°	1765	1765	1771
15°	1751	1752	1757
20°	1728	1730	1736
25°	1697	1701	1708
30°	1665	1670	1680
35°	1634	1638	1651
40°	1600	1605	1620
45°	1565	1572	1588
50°	1527	1534	1551
55°	1484	1491	1515
60°	1434	1440	1473
65°	1372	1376	1402
70°	1288	1289	1317
75°	1170	1166	1193
80°	1006	1001	1018
85°	780	767	772

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	3.5
10°-20°	354.7	9.9
20°-30°	528.0	14.8
30°-40°	624.5	17.5
40°-50°	637.5	17.9
50°-60°	568.9	16.0
60°-70°	428.5	12.0
70°-80°	239.0	6.7
80°-90°	59.9	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°	1007.4	28.3
0°-40°	1631.9	45.8
0°-60°	2838.3	79.6
0°-90°	3565.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3565.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1311	1314	1312	1312	1314	125
15°	1257	1258	1258	1259	1261	354
25°	1143	1144	1146	1148	1151	526
35°	995	994	998	1001	1005	622
45°	822	822	826	830	834	634
55°	632	632	636	640	646	565
65°	431	429	432	436	440	426
75°	225	223	224	225	230	239
85°	50	49	50	49	50	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1319.6	1319.6	1319.6	1319.6	1319.6
2.5°	1317.4	1319.6	1316.8	1317.4	1319.8
5°	1311.1	1313.5	1312.2	1312.5	1313.8
7.5°	1302.3	1305.6	1303.7	1304.3	1305.6
10°	1292.0	1294.4	1292.2	1293.6	1296.1
12.5°	1277.2	1278.3	1277.2	1277.8	1280.5
15°	1256.7	1258.1	1257.5	1258.6	1261.1
17.5°	1232.7	1234.3	1234.0	1236.2	1238.1
20°	1206.7	1207.0	1208.1	1210.3	1212.5
22.5°	1176.1	1176.9	1178.0	1181.0	1183.2
25°	1142.8	1144.2	1145.5	1148.5	1150.7
27.5°	1107.6	1108.9	1110.8	1114.1	1117.7
30°	1071.5	1071.5	1075.0	1078.3	1081.6
32.5°	1035.2	1033.8	1037.1	1041.2	1049.1
35°	995.0	993.9	997.5	1001.3	1005.4
37.5°	953.2	952.4	956.5	960.6	964.4
40°	910.9	909.8	913.9	918.0	922.1
42.5°	867.4	866.9	870.7	874.8	879.2
45°	822.3	822.1	825.9	830.0	834.4
47.5°	776.4	775.9	779.7	784.1	787.9
50°	729.4	728.9	732.7	737.1	741.2
52.5°	681.1	681.1	684.6	688.5	694.7
55°	632.5	631.6	635.5	639.8	645.8
57.5°	583.3	582.2	585.7	590.1	595.6
60°	533.0	531.9	535.2	539.6	547.2
62.5°	482.2	480.6	483.8	487.9	492.6
65°	430.8	429.2	432.2	436.0	440.4
67.5°	379.2	377.3	380.3	383.6	387.7
70°	327.3	325.4	327.6	330.8	334.7
72.5°	275.7	273.7	275.7	277.0	281.7
75°	225.1	223.2	224.3	225.4	229.5
77.5°	175.9	174.0	176.2	176.8	179.2
80°	129.8	127.9	129.2	129.5	131.4
82.5°	87.7	86.1	88.0	86.6	88.2
85°	50.5	49.2	49.7	49.2	50.0
87.5°	19.9	18.9	19.1	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)