

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: P835048

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-2LO-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835048
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-LD4-2LO-20-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

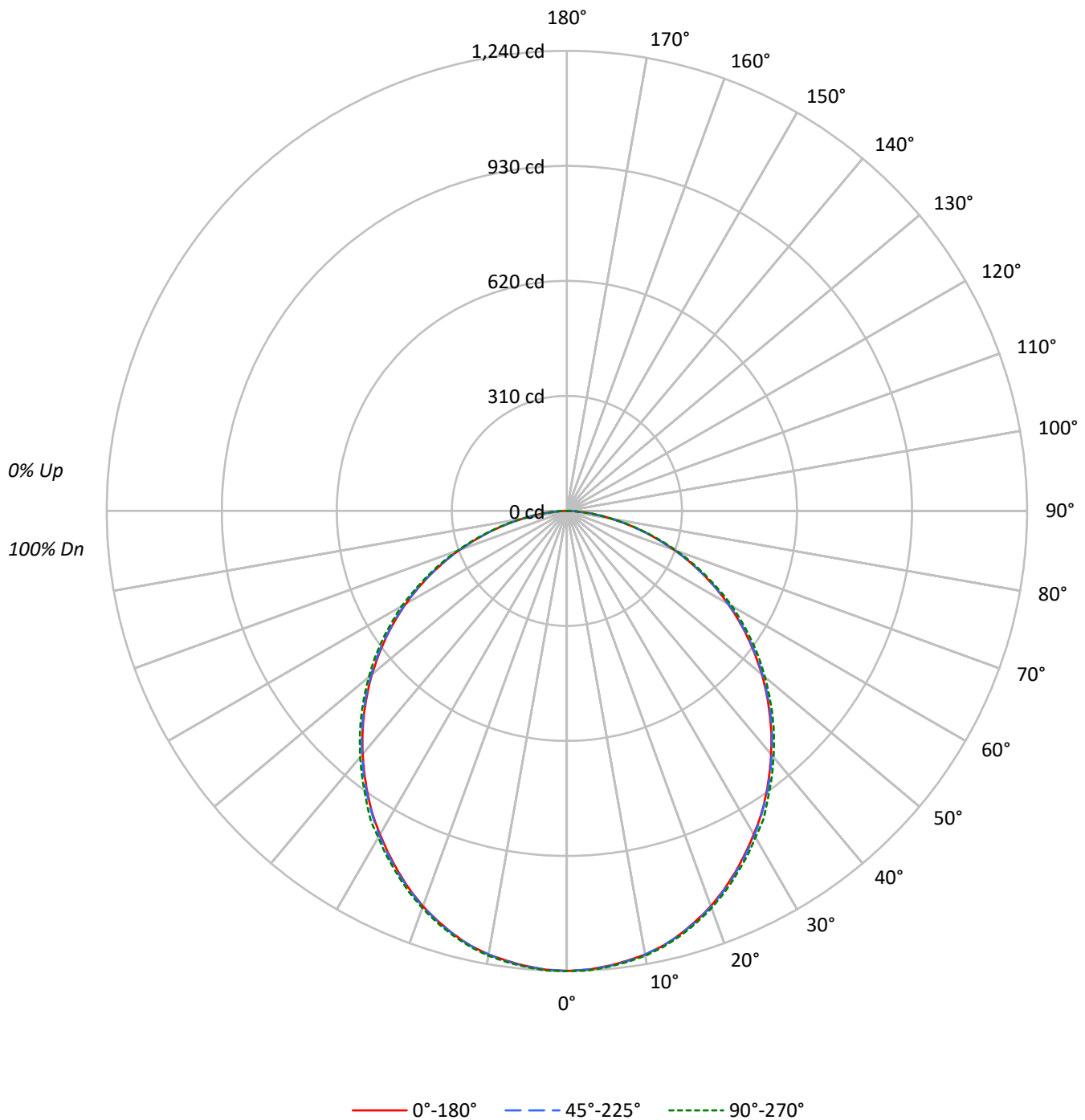
Lumens per Lamp: N/A
Luminaire Lumens: 3350.5 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	1668	1668	1668
5°	1664	1665	1667
10°	1659	1659	1664
15°	1645	1646	1651
20°	1624	1625	1631
25°	1594	1598	1605
30°	1564	1569	1579
35°	1536	1540	1552
40°	1503	1508	1522
45°	1470	1477	1492
50°	1435	1441	1458
55°	1394	1401	1424
60°	1348	1353	1384
65°	1289	1293	1317
70°	1210	1211	1237
75°	1099	1096	1121
80°	945	941	957
85°	733	721	726

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.2	3.5
10°-20°	333.3	9.9
20°-30°	496.2	14.8
30°-40°	586.8	17.5
40°-50°	599.0	17.9
50°-60°	534.6	16.0
60°-70°	402.7	12.0
70°-80°	224.5	6.7
80°-90°	56.3	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°	946.7	28.3
0°-40°	1533.5	45.8
0°-60°	2667.1	79.6
0°-90°	3350.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3350.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1240	1240	1240	1240	1240	
5°	1232	1234	1233	1233	1235	117
15°	1181	1182	1182	1183	1185	333
25°	1074	1075	1076	1079	1081	495
35°	935	934	937	941	945	585
45°	773	772	776	780	784	596
55°	594	594	597	601	607	531
65°	405	403	406	410	414	400
75°	212	210	211	212	216	224
85°	48	46	47	46	47	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1240.0	1240.0	1240.0	1240.0	1240.0
2.5°	1237.9	1240.0	1237.4	1237.9	1240.2
5°	1232.0	1234.3	1233.1	1233.3	1234.6
7.5°	1223.8	1226.9	1225.1	1225.6	1226.9
10°	1214.1	1216.4	1214.3	1215.6	1217.9
12.5°	1200.2	1201.2	1200.2	1200.7	1203.3
15°	1180.9	1182.2	1181.7	1182.7	1185.0
17.5°	1158.3	1159.9	1159.6	1161.7	1163.5
20°	1134.0	1134.2	1135.2	1137.3	1139.3
22.5°	1105.2	1106.0	1107.0	1109.8	1111.9
25°	1073.9	1075.2	1076.4	1079.3	1081.3
27.5°	1040.8	1042.0	1043.8	1046.9	1050.3
30°	1006.9	1006.9	1010.2	1013.3	1016.4
32.5°	972.7	971.4	974.5	978.4	985.8
35°	935.0	934.0	937.3	940.9	944.7
37.5°	895.7	894.9	898.8	902.6	906.2
40°	855.9	854.9	858.7	862.6	866.4
42.5°	815.1	814.6	818.2	822.0	826.1
45°	772.7	772.5	776.1	779.9	784.0
47.5°	729.6	729.1	732.7	736.8	740.4
50°	685.5	684.9	688.5	692.6	696.5
52.5°	640.0	640.0	643.4	646.9	652.9
55°	594.3	593.5	597.1	601.3	606.9
57.5°	548.1	547.1	550.4	554.5	559.7
60°	500.9	499.8	502.9	507.0	514.2
62.5°	453.1	451.6	454.7	458.5	462.9
65°	404.9	403.3	406.1	409.7	413.8
67.5°	356.3	354.5	357.4	360.4	364.3
70°	307.6	305.8	307.8	310.9	314.5
72.5°	259.0	257.2	259.0	260.3	264.7
75°	211.5	209.7	210.8	211.8	215.6
77.5°	165.3	163.5	165.6	166.1	168.4
80°	121.9	120.1	121.4	121.7	123.5
82.5°	82.4	80.9	82.7	81.4	82.9
85°	47.5	46.2	46.7	46.2	47.0
87.5°	18.7	17.7	18.0	16.9	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)