

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: P834939

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1HI-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834939
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-20-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

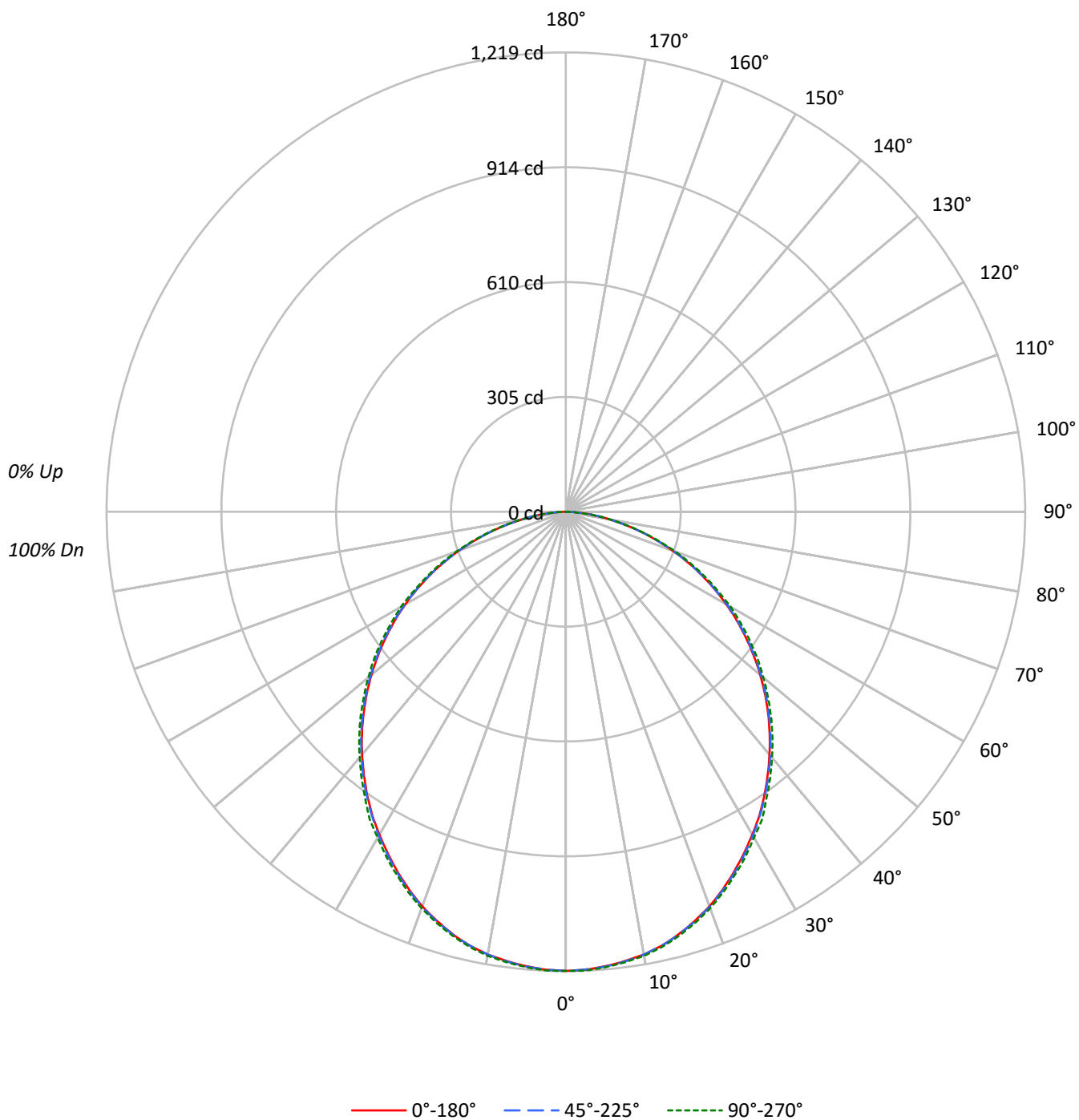
Lumens per Lamp: N/A
Luminaire Lumens: 3292.1 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
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°	1639	1639	1639
5°	1635	1636	1638
10°	1630	1630	1635
15°	1616	1617	1622
20°	1595	1597	1603
25°	1566	1570	1577
30°	1537	1542	1551
35°	1509	1513	1525
40°	1477	1482	1495
45°	1445	1451	1466
50°	1410	1416	1432
55°	1370	1376	1399
60°	1324	1330	1359
65°	1266	1270	1294
70°	1189	1190	1216
75°	1080	1077	1102
80°	928	924	940
85°	721	709	713

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	3.5
10°-20°	327.5	9.9
20°-30°	487.5	14.8
30°-40°	576.6	17.5
40°-50°	588.6	17.9
50°-60°	525.3	16.0
60°-70°	395.6	12.0
70°-80°	220.6	6.7
80°-90°	55.3	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°	930.1	28.3
0°-40°	1506.7	45.8
0°-60°	2620.5	79.6
0°-90°	3292.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3292.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1218	1218	1218	1218	1218	
5°	1210	1213	1212	1212	1213	115
15°	1160	1162	1161	1162	1164	327
25°	1055	1056	1058	1060	1062	486
35°	919	918	921	924	928	575
45°	759	759	762	766	770	586
55°	584	583	587	591	596	522
65°	398	396	399	403	407	393
75°	208	206	207	208	212	220
85°	47	45	46	45	46	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1218.3	1218.3	1218.3	1218.3	1218.3
2.5°	1216.3	1218.3	1215.8	1216.3	1218.6
5°	1210.5	1212.8	1211.5	1211.8	1213.0
7.5°	1202.4	1205.5	1203.7	1204.2	1205.5
10°	1192.9	1195.1	1193.1	1194.4	1196.6
12.5°	1179.2	1180.2	1179.2	1179.7	1182.3
15°	1160.3	1161.6	1161.1	1162.1	1164.4
17.5°	1138.1	1139.6	1139.4	1141.4	1143.2
20°	1114.2	1114.4	1115.4	1117.4	1119.5
22.5°	1085.9	1086.7	1087.7	1090.4	1092.5
25°	1055.1	1056.4	1057.7	1060.4	1062.4
27.5°	1022.6	1023.9	1025.6	1028.6	1031.9
30°	989.3	989.3	992.6	995.6	998.6
32.5°	955.8	954.5	957.5	961.3	968.6
35°	918.7	917.7	920.9	924.5	928.3
37.5°	880.1	879.3	883.1	886.9	890.4
40°	841.0	840.0	843.8	847.5	851.3
42.5°	800.9	800.4	803.9	807.7	811.7
45°	759.3	759.0	762.5	766.3	770.4
47.5°	716.9	716.4	719.9	723.9	727.5
50°	673.5	673.0	676.5	680.6	684.3
52.5°	628.8	628.8	632.1	635.7	641.5
55°	583.9	583.2	586.7	590.8	596.3
57.5°	538.5	537.5	540.8	544.8	549.9
60°	492.1	491.1	494.1	498.2	505.2
62.5°	445.2	443.7	446.7	450.5	454.8
65°	397.8	396.3	399.0	402.6	406.6
67.5°	350.1	348.3	351.1	354.1	357.9
70°	302.2	300.4	302.4	305.5	309.0
72.5°	254.5	252.7	254.5	255.8	260.1
75°	207.8	206.1	207.1	208.1	211.9
77.5°	162.4	160.7	162.7	163.2	165.5
80°	119.8	118.0	119.3	119.6	121.3
82.5°	81.0	79.5	81.2	80.0	81.5
85°	46.7	45.4	45.9	45.4	46.2
87.5°	18.4	17.4	17.7	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)