

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: P835064

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1STD-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835064
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-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

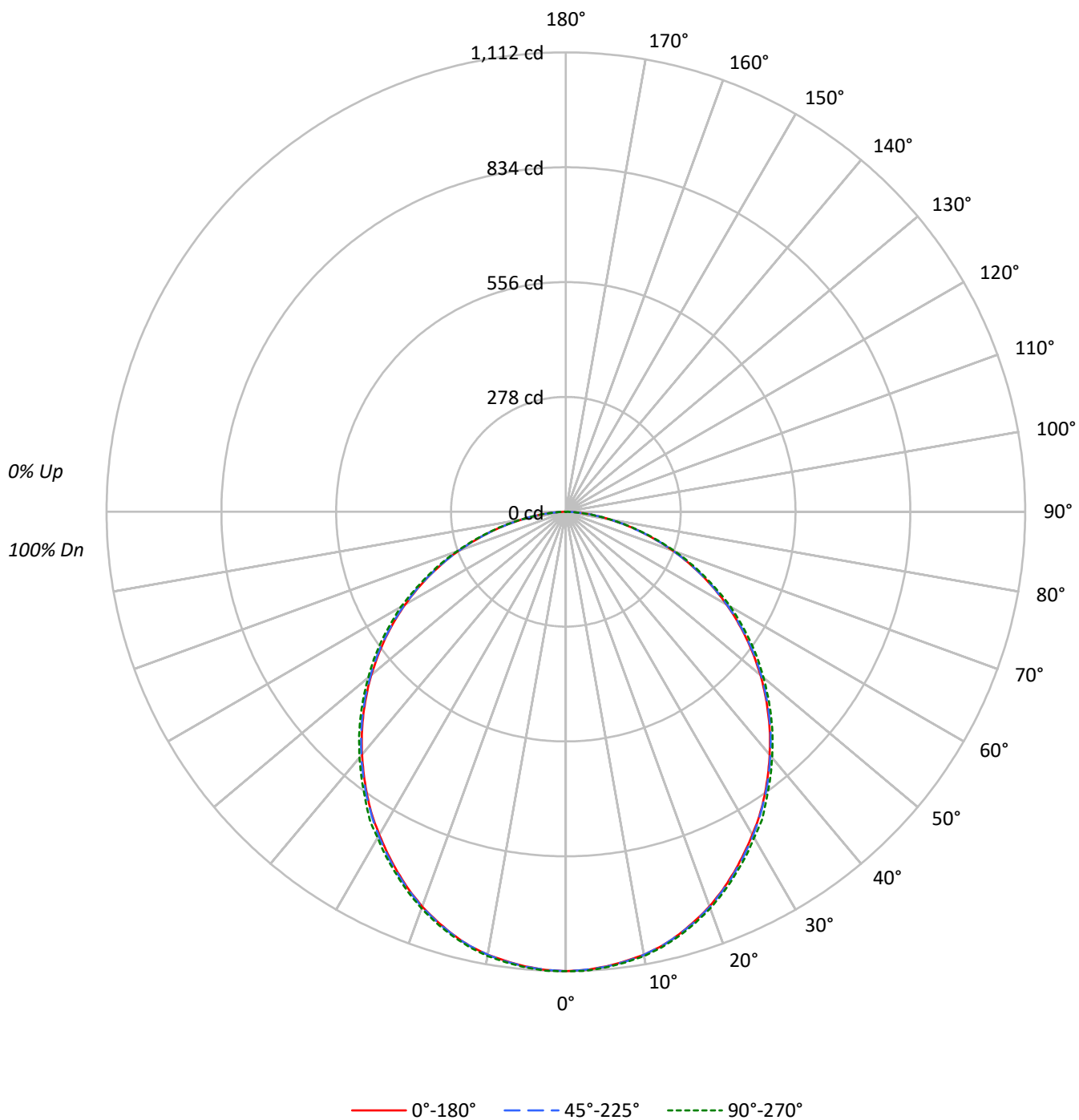
Lumens per Lamp: N/A
Luminaire Lumens: 3004.7 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1496	1496	1496
5°	1492	1494	1495
10°	1487	1488	1492
15°	1475	1476	1480
20°	1456	1458	1463
25°	1430	1433	1440
30°	1403	1407	1416
35°	1377	1381	1392
40°	1348	1353	1365
45°	1319	1324	1338
50°	1287	1293	1307
55°	1250	1256	1277
60°	1209	1214	1241
65°	1156	1160	1181
70°	1085	1086	1109
75°	986	983	1005
80°	848	844	858
85°	658	647	650

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	3.5
10°-20°	298.9	9.9
20°-30°	445.0	14.8
30°-40°	526.2	17.5
40°-50°	537.2	17.9
50°-60°	479.4	16.0
60°-70°	361.1	12.0
70°-80°	201.4	6.7
80°-90°	50.4	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°	849.0	28.3
0°-40°	1375.2	45.8
0°-60°	2391.8	79.6
0°-90°	3004.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3004.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1105	1107	1106	1106	1107	105
15°	1059	1060	1060	1061	1063	298
25°	963	964	965	968	970	444
35°	838	838	841	844	847	524
45°	693	693	696	699	703	535
55°	533	532	536	539	544	476
65°	363	362	364	367	371	359
75°	190	188	189	190	193	201
85°	43	41	42	41	42	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1112.0	1112.0	1112.0	1112.0	1112.0
2.5°	1110.1	1112.0	1109.7	1110.1	1112.2
5°	1104.9	1106.9	1105.8	1106.0	1107.2
7.5°	1097.5	1100.2	1098.6	1099.1	1100.2
10°	1088.7	1090.8	1089.0	1090.1	1092.2
12.5°	1076.3	1077.2	1076.3	1076.8	1079.1
15°	1059.0	1060.2	1059.7	1060.6	1062.7
17.5°	1038.8	1040.2	1039.9	1041.8	1043.4
20°	1016.9	1017.1	1018.1	1019.9	1021.7
22.5°	991.1	991.8	992.7	995.3	997.1
25°	963.0	964.2	965.3	967.9	969.7
27.5°	933.3	934.5	936.1	938.9	941.9
30°	902.9	902.9	905.9	908.7	911.5
32.5°	872.3	871.2	873.9	877.4	884.1
35°	838.5	837.6	840.6	843.8	847.2
37.5°	803.3	802.6	806.0	809.5	812.7
40°	767.6	766.6	770.1	773.6	777.0
42.5°	731.0	730.5	733.7	737.2	740.9
45°	693.0	692.7	696.0	699.4	703.1
47.5°	654.3	653.8	657.1	660.7	664.0
50°	614.7	614.2	617.5	621.1	624.6
52.5°	574.0	574.0	576.9	580.2	585.5
55°	533.0	532.3	535.5	539.2	544.3
57.5°	491.5	490.6	493.6	497.3	501.9
60°	449.2	448.2	451.0	454.7	461.1
62.5°	406.3	405.0	407.7	411.2	415.1
65°	363.1	361.7	364.2	367.4	371.1
67.5°	319.6	317.9	320.5	323.2	326.7
70°	275.8	274.2	276.0	278.8	282.0
72.5°	232.3	230.7	232.3	233.4	237.4
75°	189.7	188.1	189.0	189.9	193.4
77.5°	148.3	146.7	148.5	149.0	151.0
80°	109.4	107.7	108.9	109.1	110.7
82.5°	73.9	72.5	74.1	73.0	74.4
85°	42.6	41.4	41.9	41.4	42.1
87.5°	16.8	15.9	16.1	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)