

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: P835009

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1LO-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835009
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-LD4-1LO-40-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

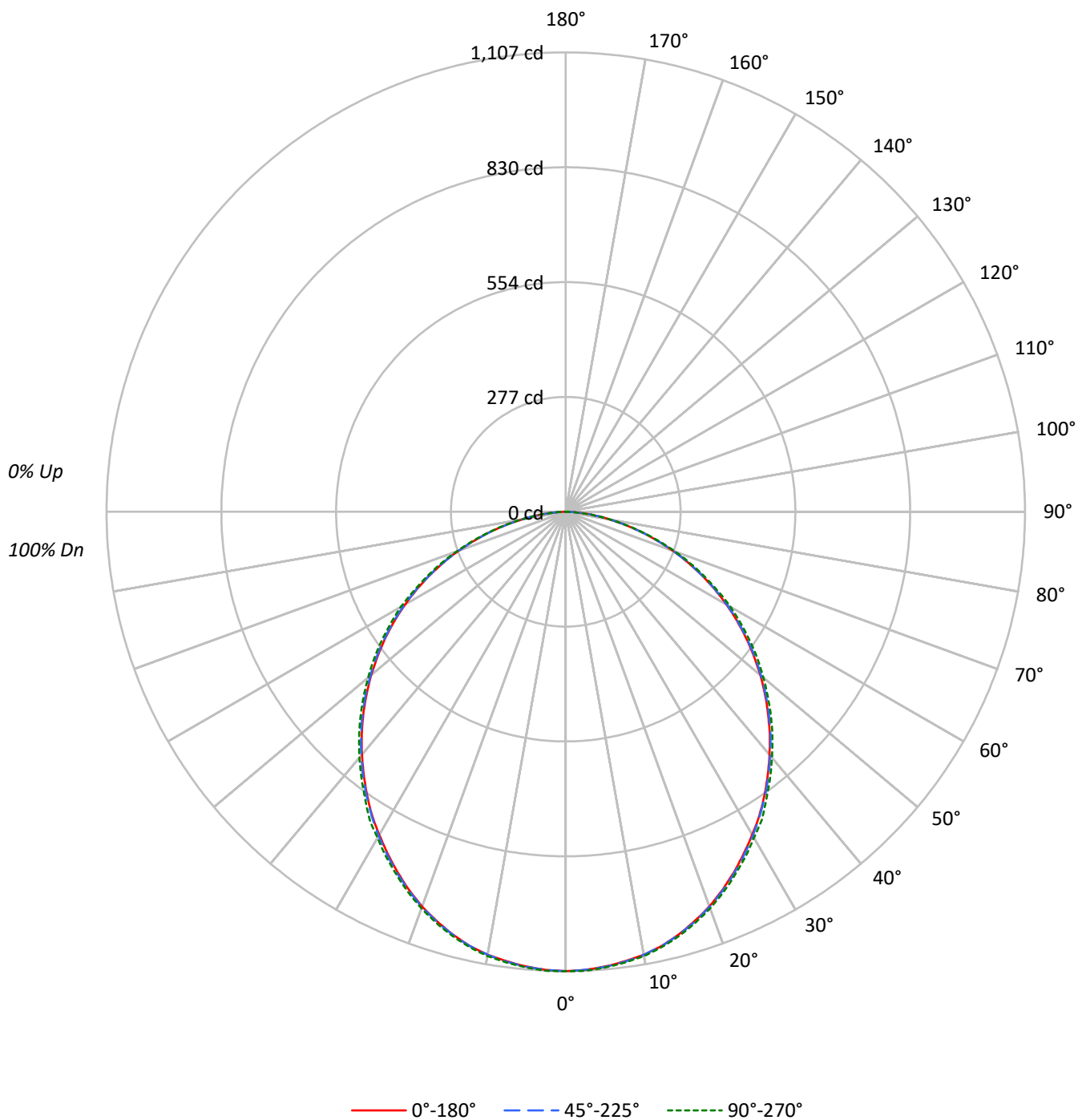
Lumens per Lamp: N/A
Luminaire Lumens: 2991.1 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1489	1489	1489
5°	1485	1487	1489
10°	1481	1481	1485
15°	1468	1469	1474
20°	1449	1451	1456
25°	1423	1427	1433
30°	1397	1401	1410
35°	1371	1374	1385
40°	1342	1346	1359
45°	1313	1318	1332
50°	1281	1287	1302
55°	1245	1251	1271
60°	1203	1208	1235
65°	1151	1154	1176
70°	1080	1081	1104
75°	981	978	1001
80°	844	840	854
85°	655	644	647

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	3.5
10°-20°	297.5	9.9
20°-30°	443.0	14.8
30°-40°	523.8	17.5
40°-50°	534.8	17.9
50°-60°	477.3	16.0
60°-70°	359.5	12.0
70°-80°	200.5	6.7
80°-90°	50.2	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°	845.1	28.3
0°-40°	1369.0	45.8
0°-60°	2381.0	79.6
0°-90°	2991.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2991.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1107	1107	1107	1107	1107	
5°	1100	1102	1101	1101	1102	104
15°	1054	1055	1055	1056	1058	297
25°	959	960	961	964	965	442
35°	835	834	837	840	843	522
45°	690	690	693	696	700	532
55°	531	530	533	537	542	474
65°	361	360	363	366	369	357
75°	189	187	188	189	192	200
85°	42	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°	1107.0	1107.0	1107.0	1107.0	1107.0
2.5°	1105.1	1107.0	1104.7	1105.1	1107.2
5°	1099.8	1101.9	1100.8	1101.0	1102.1
7.5°	1092.5	1095.3	1093.7	1094.1	1095.3
10°	1083.8	1085.9	1084.0	1085.2	1087.2
12.5°	1071.4	1072.3	1071.4	1071.9	1074.2
15°	1054.2	1055.4	1054.9	1055.8	1057.9
17.5°	1034.1	1035.4	1035.2	1037.1	1038.7
20°	1012.3	1012.5	1013.4	1015.3	1017.1
22.5°	986.6	987.3	988.2	990.8	992.6
25°	958.7	959.8	961.0	963.5	965.3
27.5°	929.1	930.3	931.9	934.6	937.6
30°	898.9	898.9	901.8	904.6	907.3
32.5°	868.4	867.2	870.0	873.4	880.1
35°	834.7	833.8	836.7	840.0	843.4
37.5°	799.6	798.9	802.4	805.8	809.0
40°	764.1	763.2	766.6	770.1	773.5
42.5°	727.7	727.2	730.4	733.8	737.5
45°	689.8	689.6	692.8	696.3	699.9
47.5°	651.3	650.9	654.1	657.8	661.0
50°	611.9	611.5	614.7	618.3	621.8
52.5°	571.4	571.4	574.3	577.5	582.8
55°	530.6	529.9	533.1	536.7	541.8
57.5°	489.3	488.4	491.4	495.0	499.6
60°	447.1	446.2	449.0	452.6	459.1
62.5°	404.5	403.1	405.9	409.3	413.2
65°	361.4	360.0	362.6	365.8	369.4
67.5°	318.1	316.5	319.0	321.8	325.2
70°	274.6	273.0	274.8	277.5	280.7
72.5°	231.2	229.6	231.2	232.4	236.3
75°	188.8	187.2	188.2	189.1	192.5
77.5°	147.6	146.0	147.8	148.3	150.3
80°	108.9	107.3	108.4	108.6	110.2
82.5°	73.6	72.2	73.8	72.7	74.0
85°	42.4	41.3	41.7	41.3	41.9
87.5°	16.7	15.8	16.0	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)