

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: P834973

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1LO-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834973
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-30-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

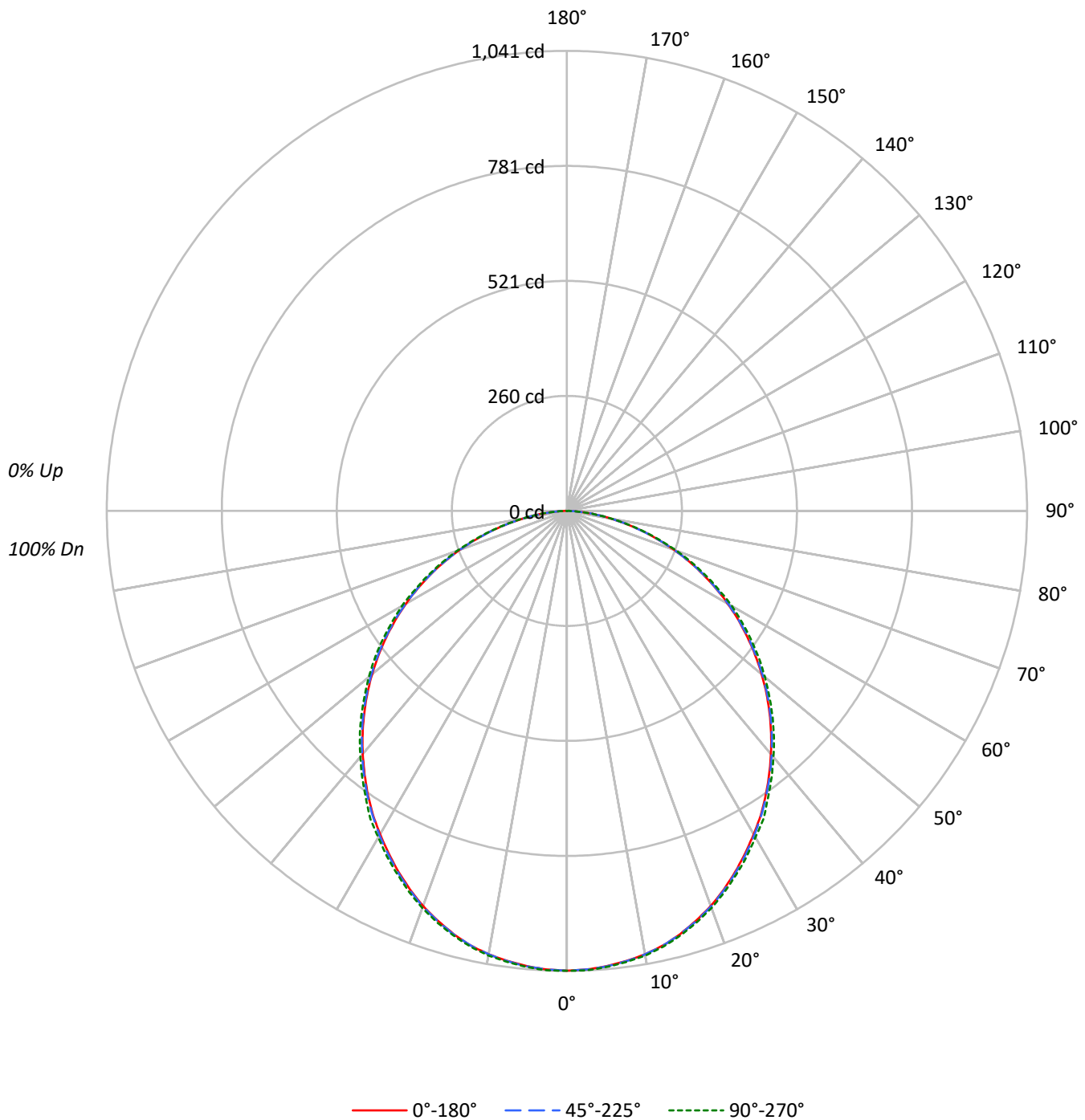
Lumens per Lamp: N/A
Luminaire Lumens: 2811.6 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1400	1400	1400
5°	1396	1397	1399
10°	1392	1392	1396
15°	1380	1381	1385
20°	1363	1364	1369
25°	1338	1341	1347
30°	1313	1317	1325
35°	1289	1292	1302
40°	1261	1266	1277
45°	1234	1239	1252
50°	1204	1209	1223
55°	1170	1175	1195
60°	1131	1136	1161
65°	1082	1085	1106
70°	1015	1016	1038
75°	923	920	941
80°	793	790	803
85°	616	605	608

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	3.5
10°-20°	279.7	9.9
20°-30°	416.4	14.8
30°-40°	492.4	17.5
40°-50°	502.7	17.9
50°-60°	448.6	16.0
60°-70°	337.9	12.0
70°-80°	188.4	6.7
80°-90°	47.2	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°	794.4	28.3
0°-40°	1286.8	45.8
0°-60°	2238.1	79.6
0°-90°	2811.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2811.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1034	1036	1035	1035	1036	98
15°	991	992	992	992	994	279
25°	901	902	903	906	907	415
35°	785	784	786	790	793	491
45°	648	648	651	654	658	500
55°	499	498	501	504	509	446
65°	340	338	341	344	347	336
75°	178	176	177	178	181	188
85°	40	39	39	39	39	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1040.5	1040.5	1040.5	1040.5	1040.5
2.5°	1038.8	1040.5	1038.4	1038.8	1040.7
5°	1033.9	1035.8	1034.7	1034.9	1036.0
7.5°	1027.0	1029.5	1028.0	1028.5	1029.5
10°	1018.8	1020.7	1019.0	1020.1	1022.0
12.5°	1007.1	1008.0	1007.1	1007.6	1009.7
15°	991.0	992.1	991.6	992.5	994.4
17.5°	972.0	973.3	973.1	974.8	976.3
20°	951.6	951.8	952.6	954.4	956.1
22.5°	927.4	928.1	928.9	931.3	933.0
25°	901.1	902.2	903.3	905.7	907.4
27.5°	873.4	874.4	875.9	878.5	881.3
30°	844.9	844.9	847.7	850.3	852.9
32.5°	816.3	815.2	817.8	821.0	827.3
35°	784.6	783.7	786.5	789.6	792.8
37.5°	751.6	751.0	754.2	757.5	760.5
40°	718.2	717.4	720.6	723.8	727.1
42.5°	684.0	683.6	686.6	689.8	693.3
45°	648.4	648.2	651.2	654.5	657.9
47.5°	612.3	611.8	614.8	618.3	621.3
50°	575.2	574.8	577.8	581.2	584.5
52.5°	537.1	537.1	539.9	542.9	547.8
55°	498.7	498.1	501.1	504.5	509.3
57.5°	459.9	459.1	461.9	465.3	469.6
60°	420.3	419.4	422.0	425.5	431.5
62.5°	380.2	378.9	381.5	384.8	388.4
65°	339.7	338.4	340.8	343.8	347.3
67.5°	299.0	297.5	299.9	302.5	305.7
70°	258.1	256.6	258.3	260.9	263.9
72.5°	217.4	215.9	217.4	218.4	222.1
75°	177.5	176.0	176.9	177.7	181.0
77.5°	138.7	137.2	139.0	139.4	141.3
80°	102.3	100.8	101.9	102.1	103.6
82.5°	69.2	67.9	69.4	68.3	69.6
85°	39.9	38.8	39.2	38.8	39.4
87.5°	15.7	14.9	15.1	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)