

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: P835603

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1LO-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835603
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-1LO-27-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

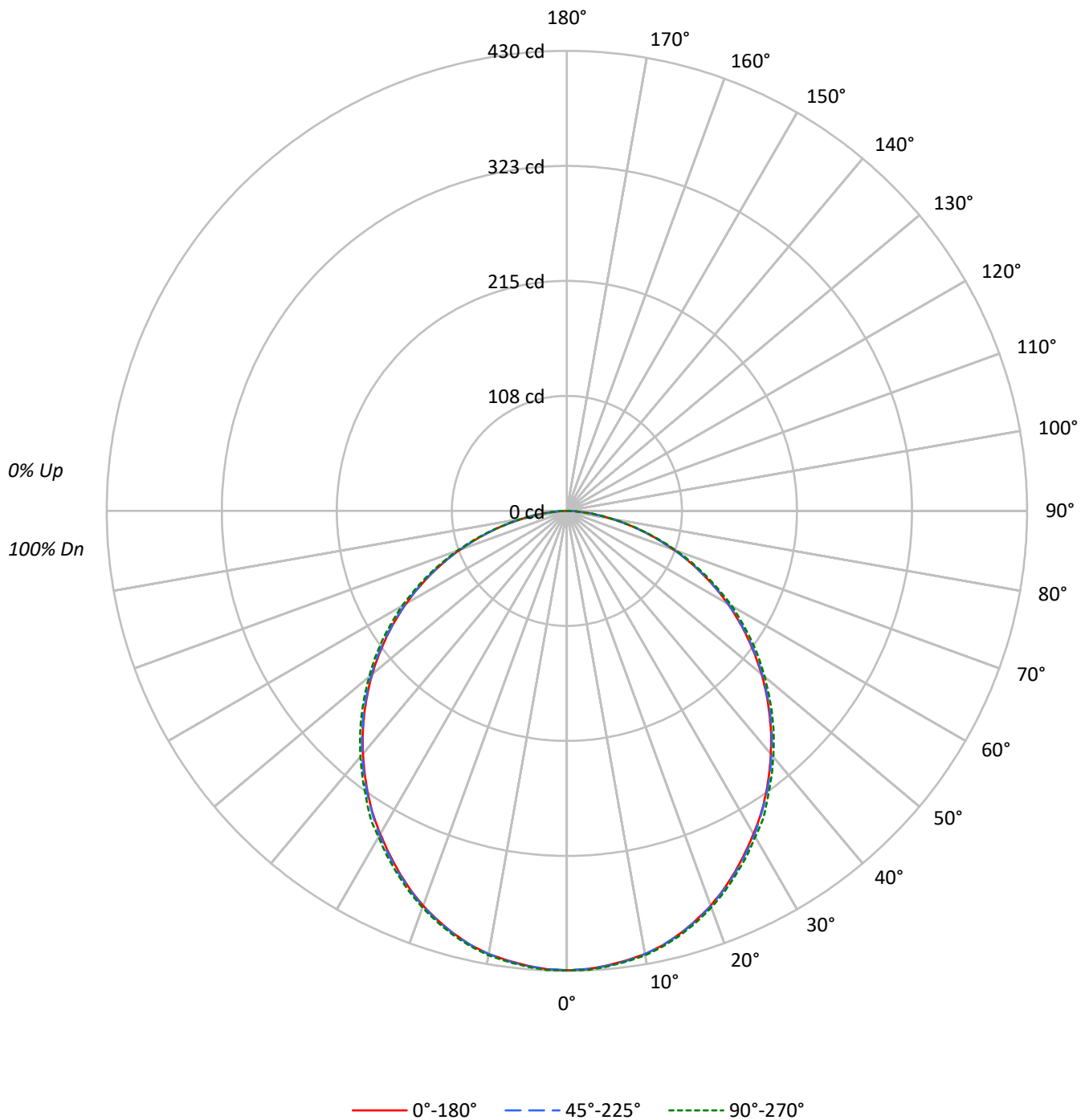
Lumens per Lamp: N/A
Luminaire Lumens: 1160.4 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1156	1156	1156
5°	1153	1153	1155
10°	1149	1149	1153
15°	1139	1140	1143
20°	1125	1126	1130
25°	1104	1107	1112
30°	1084	1087	1094
35°	1064	1066	1075
40°	1041	1045	1054
45°	1018	1023	1033
50°	994	998	1010
55°	966	970	986
60°	934	938	959
65°	893	896	912
70°	838	839	857
75°	762	759	777
80°	654	652	663
85°	506	500	503

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	3.5
10°-20°	115.4	9.9
20°-30°	171.8	14.8
30°-40°	203.2	17.5
40°-50°	207.5	17.9
50°-60°	185.2	16.0
60°-70°	139.5	12.0
70°-80°	77.8	6.7
80°-90°	19.5	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°	327.9	28.3
0°-40°	531.1	45.8
0°-60°	923.7	79.6
0°-90°	1160.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1160.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	429	429	429	429	429	
5°	427	428	427	427	428	41
15°	409	409	409	410	410	115
25°	372	372	373	374	374	171
35°	324	324	325	326	327	202
45°	268	268	269	270	272	206
55°	206	206	207	208	210	184
65°	140	140	141	142	143	139
75°	73	73	73	73	75	78
85°	16	16	16	16	16	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	429.4	429.4	429.4	429.4	429.4
2.5°	428.7	429.4	428.5	428.7	429.5
5°	426.7	427.5	427.0	427.1	427.6
7.5°	423.8	424.9	424.3	424.5	424.9
10°	420.5	421.3	420.5	421.0	421.8
12.5°	415.6	416.0	415.6	415.8	416.7
15°	409.0	409.4	409.2	409.6	410.4
17.5°	401.2	401.7	401.6	402.3	402.9
20°	392.7	392.8	393.2	393.9	394.6
22.5°	382.8	383.0	383.4	384.4	385.1
25°	371.9	372.4	372.8	373.8	374.5
27.5°	360.4	360.9	361.5	362.6	363.7
30°	348.7	348.7	349.9	350.9	352.0
32.5°	336.9	336.4	337.5	338.8	341.4
35°	323.8	323.5	324.6	325.9	327.2
37.5°	310.2	309.9	311.3	312.6	313.8
40°	296.4	296.1	297.4	298.7	300.1
42.5°	282.3	282.1	283.4	284.7	286.1
45°	267.6	267.5	268.8	270.1	271.5
47.5°	252.7	252.5	253.7	255.2	256.4
50°	237.4	237.2	238.5	239.9	241.2
52.5°	221.7	221.7	222.8	224.1	226.1
55°	205.8	205.6	206.8	208.2	210.2
57.5°	189.8	189.5	190.6	192.0	193.8
60°	173.5	173.1	174.2	175.6	178.1
62.5°	156.9	156.4	157.5	158.8	160.3
65°	140.2	139.7	140.7	141.9	143.3
67.5°	123.4	122.8	123.8	124.8	126.2
70°	106.5	105.9	106.6	107.7	108.9
72.5°	89.7	89.1	89.7	90.2	91.7
75°	73.3	72.6	73.0	73.3	74.7
77.5°	57.3	56.6	57.3	57.5	58.3
80°	42.2	41.6	42.1	42.1	42.8
82.5°	28.5	28.0	28.6	28.2	28.7
85°	16.4	16.0	16.2	16.0	16.3
87.5°	6.5	6.1	6.2	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)