

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: P835621

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1LO-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835621
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-30-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

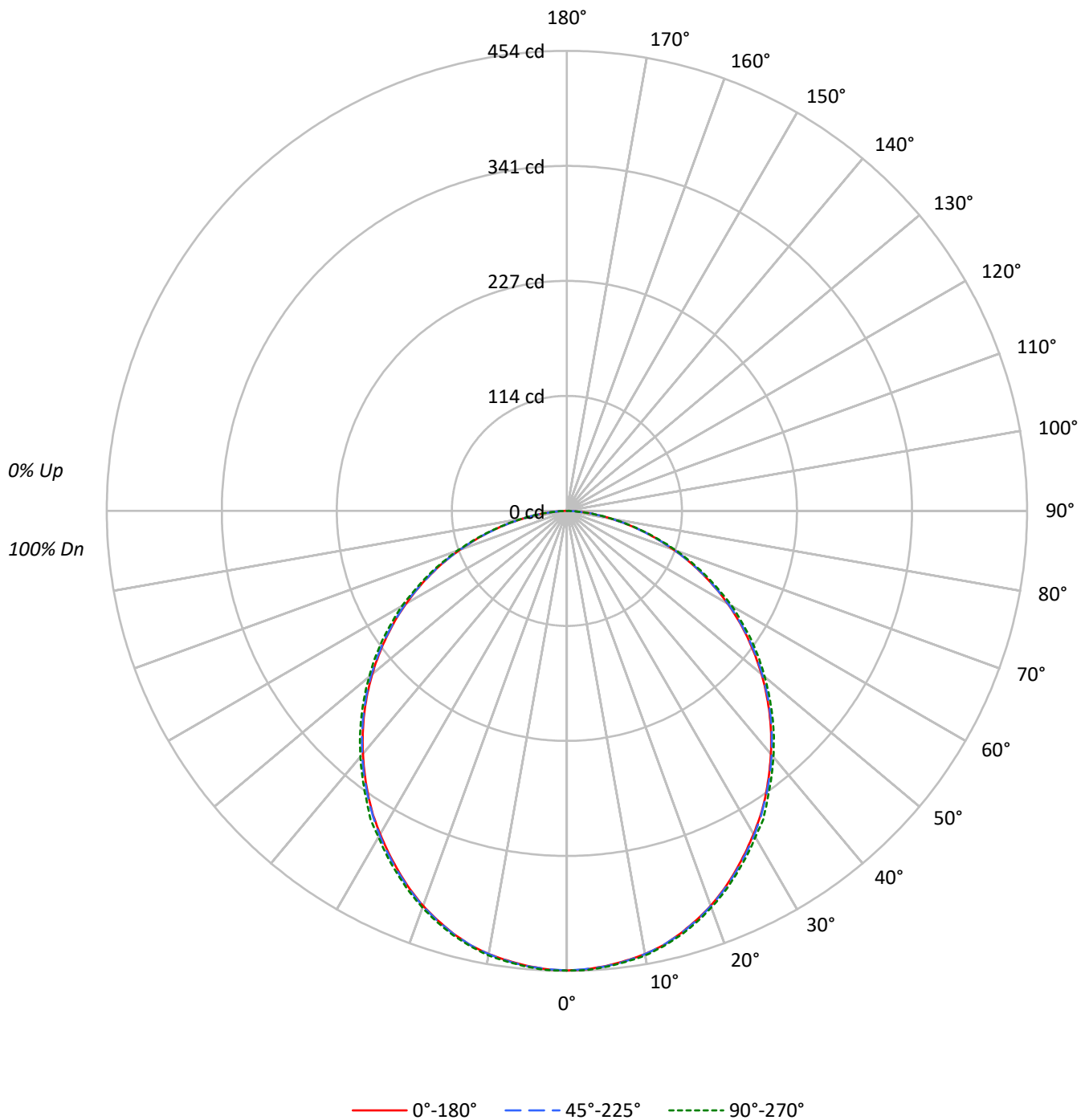
Lumens per Lamp: N/A
Luminaire Lumens: 1225.6 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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	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	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1221	1221	1221
5°	1217	1218	1220
10°	1213	1214	1217
15°	1204	1204	1208
20°	1188	1189	1193
25°	1166	1169	1174
30°	1144	1148	1155
35°	1123	1126	1135
40°	1100	1103	1113
45°	1076	1080	1091
50°	1050	1055	1067
55°	1020	1025	1042
60°	986	990	1012
65°	943	946	964
70°	885	886	905
75°	805	802	820
80°	691	688	700
85°	537	528	531

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	3.5
10°-20°	121.9	9.9
20°-30°	181.5	14.8
30°-40°	214.6	17.5
40°-50°	219.1	17.9
50°-60°	195.5	16.0
60°-70°	147.3	12.0
70°-80°	82.1	6.7
80°-90°	20.6	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°	346.3	28.3
0°-40°	560.9	45.8
0°-60°	975.6	79.6
0°-90°	1225.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1225.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	451	452	451	451	452	43
15°	432	432	432	433	434	122
25°	393	393	394	395	396	181
35°	342	342	343	344	346	214
45°	283	283	284	285	287	218
55°	217	217	218	220	222	194
65°	148	148	149	150	151	146
75°	77	77	77	78	79	82
85°	17	17	17	17	17	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	453.6	453.6	453.6	453.6	453.6
2.5°	452.8	453.6	452.6	452.8	453.6
5°	450.6	451.5	451.0	451.1	451.6
7.5°	447.6	448.8	448.1	448.3	448.8
10°	444.1	444.9	444.2	444.6	445.5
12.5°	439.0	439.4	439.0	439.2	440.1
15°	432.0	432.4	432.2	432.6	433.5
17.5°	423.7	424.3	424.2	424.9	425.6
20°	414.8	414.9	415.2	416.0	416.7
22.5°	404.3	404.5	404.9	405.9	406.7
25°	392.8	393.3	393.7	394.8	395.5
27.5°	380.7	381.2	381.8	382.9	384.2
30°	368.3	368.3	369.5	370.6	371.8
32.5°	355.8	355.3	356.5	357.9	360.6
35°	342.0	341.6	342.8	344.2	345.6
37.5°	327.6	327.3	328.8	330.2	331.5
40°	313.1	312.7	314.1	315.5	316.9
42.5°	298.1	298.0	299.3	300.7	302.2
45°	282.7	282.6	283.9	285.3	286.8
47.5°	266.9	266.7	268.0	269.5	270.8
50°	250.7	250.5	251.9	253.4	254.8
52.5°	234.1	234.1	235.3	236.6	238.8
55°	217.4	217.1	218.4	219.9	222.0
57.5°	200.5	200.1	201.3	202.8	204.7
60°	183.2	182.8	184.0	185.5	188.1
62.5°	165.7	165.2	166.3	167.7	169.3
65°	148.1	147.5	148.6	149.9	151.4
67.5°	130.3	129.7	130.7	131.8	133.2
70°	112.5	111.8	112.6	113.7	115.0
72.5°	94.7	94.1	94.7	95.2	96.8
75°	77.4	76.7	77.1	77.5	78.9
77.5°	60.5	59.8	60.6	60.8	61.6
80°	44.6	43.9	44.4	44.5	45.2
82.5°	30.1	29.6	30.2	29.8	30.3
85°	17.4	16.9	17.1	16.9	17.2
87.5°	6.9	6.5	6.6	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)