

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: P835783

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1LO-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835783
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-50-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

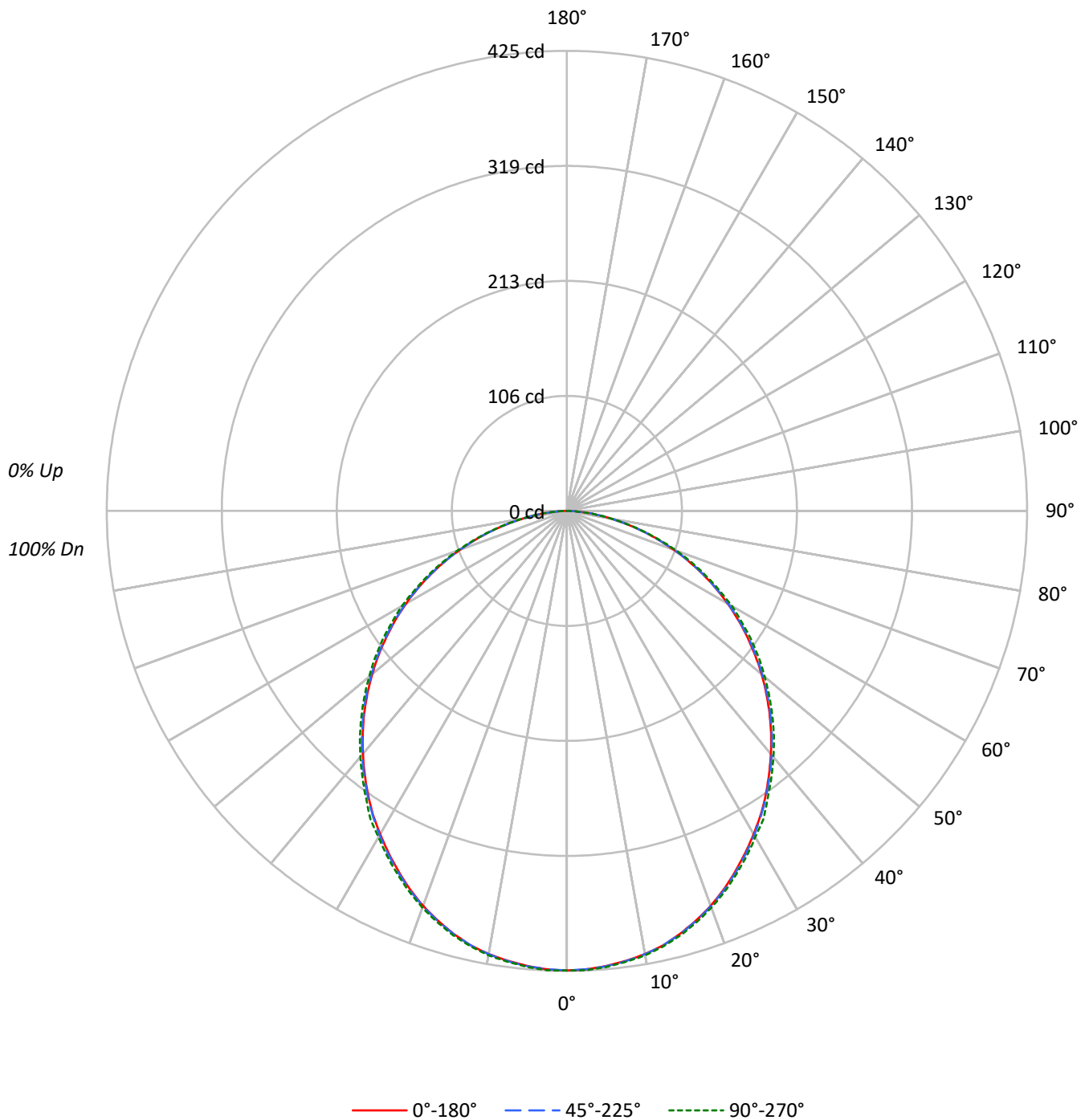
Lumens per Lamp: N/A
Luminaire Lumens: 1147.3 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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°	1143	1143	1143
5°	1140	1140	1142
10°	1136	1136	1139
15°	1127	1127	1131
20°	1112	1113	1117
25°	1092	1094	1099
30°	1071	1075	1081
35°	1052	1055	1063
40°	1030	1033	1042
45°	1007	1012	1022
50°	983	987	998
55°	955	959	975
60°	923	927	948
65°	883	886	902
70°	828	829	847
75°	753	751	767
80°	648	645	656
85°	503	494	497

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	3.5
10°-20°	114.1	9.9
20°-30°	169.9	14.8
30°-40°	200.9	17.5
40°-50°	205.1	17.9
50°-60°	183.1	16.0
60°-70°	137.9	12.0
70°-80°	76.9	6.7
80°-90°	19.3	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°	324.2	28.3
0°-40°	525.1	45.8
0°-60°	913.3	79.6
0°-90°	1147.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1147.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	425	425	425	425	425	
5°	422	423	422	422	423	40
15°	404	405	405	405	406	114
25°	368	368	369	370	370	169
35°	320	320	321	322	324	200
45°	265	264	266	267	268	204
55°	204	203	204	206	208	182
65°	139	138	139	140	142	137
75°	72	72	72	72	74	77
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°	424.6	424.6	424.6	424.6	424.6
2.5°	423.9	424.6	423.7	423.9	424.7
5°	421.9	422.7	422.2	422.3	422.8
7.5°	419.1	420.1	419.5	419.7	420.1
10°	415.7	416.5	415.8	416.3	417.0
12.5°	411.0	411.3	411.0	411.2	412.0
15°	404.4	404.8	404.6	405.0	405.8
17.5°	396.7	397.2	397.1	397.8	398.4
20°	388.3	388.4	388.7	389.4	390.1
22.5°	378.5	378.7	379.1	380.0	380.7
25°	367.7	368.2	368.6	369.6	370.3
27.5°	356.4	356.8	357.4	358.5	359.6
30°	344.8	344.8	345.9	347.0	348.0
32.5°	333.1	332.7	333.7	335.0	337.6
35°	320.2	319.8	321.0	322.2	323.5
37.5°	306.7	306.5	307.8	309.1	310.3
40°	293.1	292.7	294.1	295.4	296.7
42.5°	279.1	278.9	280.2	281.5	282.9
45°	264.6	264.5	265.8	267.1	268.5
47.5°	249.8	249.7	250.9	252.3	253.5
50°	234.7	234.5	235.8	237.2	238.5
52.5°	219.2	219.2	220.3	221.5	223.6
55°	203.5	203.2	204.5	205.9	207.8
57.5°	187.7	187.3	188.5	189.9	191.6
60°	171.5	171.2	172.2	173.6	176.1
62.5°	155.2	154.6	155.7	157.0	158.5
65°	138.6	138.1	139.1	140.3	141.7
67.5°	122.0	121.4	122.4	123.4	124.7
70°	105.3	104.7	105.4	106.5	107.7
72.5°	88.7	88.1	88.7	89.1	90.6
75°	72.4	71.8	72.2	72.5	73.8
77.5°	56.6	56.0	56.7	56.9	57.7
80°	41.8	41.1	41.6	41.7	42.3
82.5°	28.2	27.7	28.3	27.9	28.4
85°	16.3	15.8	16.0	15.8	16.1
87.5°	6.4	6.1	6.2	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)