

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: P835712

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1STD-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835712
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-LD4-1STD-27-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

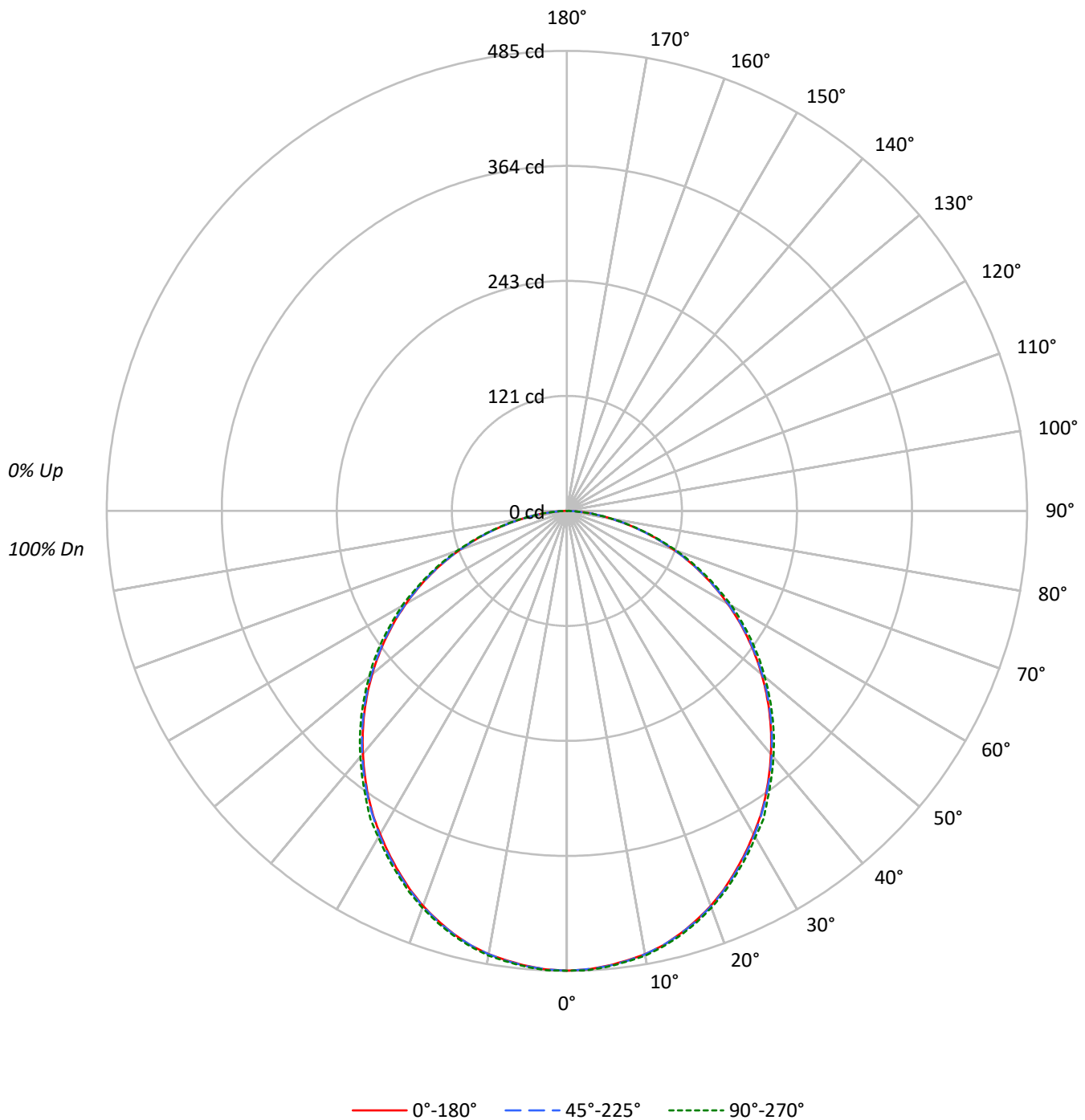
Lumens per Lamp: N/A
Luminaire Lumens: 1309.6 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	1304	1304	1304
5°	1301	1302	1304
10°	1297	1297	1301
15°	1286	1287	1290
20°	1269	1271	1275
25°	1246	1249	1255
30°	1223	1227	1235
35°	1201	1204	1213
40°	1175	1179	1190
45°	1149	1154	1166
50°	1122	1127	1140
55°	1090	1095	1113
60°	1054	1058	1082
65°	1007	1011	1030
70°	946	947	967
75°	860	857	876
80°	739	736	748
85°	574	565	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	3.5
10°-20°	130.3	9.9
20°-30°	193.9	14.8
30°-40°	229.4	17.5
40°-50°	234.1	17.9
50°-60°	209.0	16.0
60°-70°	157.4	12.0
70°-80°	87.8	6.7
80°-90°	22.0	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°	370.0	28.3
0°-40°	599.4	45.8
0°-60°	1042.5	79.6
0°-90°	1309.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1309.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	485	485	485	485	485	
5°	482	482	482	482	483	46
15°	462	462	462	462	463	130
25°	420	420	421	422	423	193
35°	366	365	366	368	369	229
45°	302	302	303	305	306	233
55°	232	232	233	235	237	208
65°	158	158	159	160	162	157
75°	83	82	82	83	84	88
85°	19	18	18	18	18	22
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	484.7	484.7	484.7	484.7	484.7
2.5°	483.9	484.7	483.7	483.9	484.8
5°	481.6	482.5	482.0	482.1	482.6
7.5°	478.3	479.5	478.8	479.0	479.5
10°	474.5	475.4	474.6	475.1	476.0
12.5°	469.1	469.5	469.1	469.3	470.3
15°	461.6	462.1	461.9	462.3	463.2
17.5°	452.8	453.4	453.3	454.1	454.8
20°	443.2	443.3	443.7	444.5	445.3
22.5°	432.0	432.3	432.7	433.8	434.6
25°	419.7	420.2	420.7	421.8	422.6
27.5°	406.8	407.3	408.0	409.2	410.5
30°	393.5	393.5	394.9	396.1	397.3
32.5°	380.2	379.7	380.9	382.4	385.3
35°	365.5	365.1	366.4	367.8	369.3
37.5°	350.1	349.8	351.3	352.8	354.2
40°	334.5	334.1	335.7	337.2	338.7
42.5°	318.6	318.4	319.8	321.3	322.9
45°	302.0	301.9	303.3	304.8	306.5
47.5°	285.2	285.0	286.4	288.0	289.4
50°	267.9	267.7	269.1	270.7	272.2
52.5°	250.2	250.2	251.5	252.9	255.2
55°	232.3	232.0	233.4	235.0	237.2
57.5°	214.2	213.8	215.1	216.7	218.8
60°	195.8	195.4	196.6	198.2	201.0
62.5°	177.1	176.5	177.7	179.2	180.9
65°	158.2	157.6	158.7	160.1	161.8
67.5°	139.3	138.6	139.7	140.9	142.4
70°	120.2	119.5	120.3	121.5	122.9
72.5°	101.2	100.5	101.2	101.7	103.5
75°	82.7	82.0	82.4	82.8	84.3
77.5°	64.6	63.9	64.7	64.9	65.8
80°	47.7	47.0	47.5	47.6	48.3
82.5°	32.2	31.6	32.3	31.8	32.4
85°	18.6	18.1	18.3	18.1	18.4
87.5°	7.3	6.9	7.0	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)