

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: P835657

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1LO-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835657
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-40-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

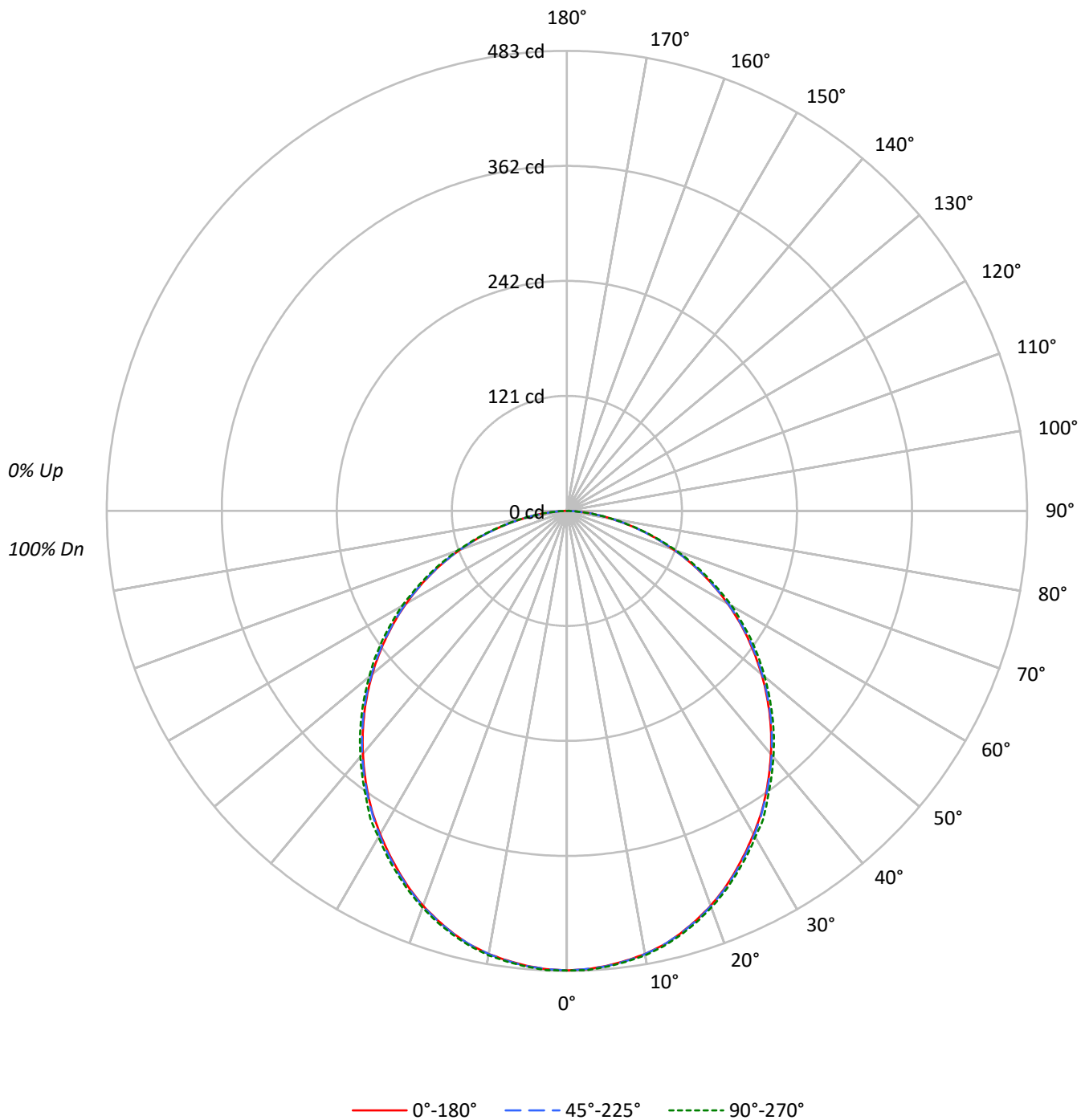
Lumens per Lamp: N/A
Luminaire Lumens: 1303.8 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1298	1298	1298
5°	1295	1296	1298
10°	1291	1291	1295
15°	1280	1281	1285
20°	1263	1265	1269
25°	1241	1244	1249
30°	1217	1221	1229
35°	1195	1198	1208
40°	1170	1174	1185
45°	1144	1149	1161
50°	1117	1122	1135
55°	1085	1090	1108
60°	1049	1053	1077
65°	1003	1006	1025
70°	942	943	963
75°	856	853	872
80°	736	733	745
85°	571	562	565

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	3.5
10°-20°	129.7	9.9
20°-30°	193.1	14.8
30°-40°	228.3	17.5
40°-50°	233.1	17.9
50°-60°	208.0	16.0
60°-70°	156.7	12.0
70°-80°	87.4	6.7
80°-90°	21.9	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°	368.4	28.3
0°-40°	596.7	45.8
0°-60°	1037.8	79.6
0°-90°	1303.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1303.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	482	482	482	482	482	
5°	479	480	480	480	480	46
15°	460	460	460	460	461	130
25°	418	418	419	420	421	193
35°	364	363	365	366	368	228
45°	301	301	302	304	305	232
55°	231	231	232	234	236	207
65°	158	157	158	159	161	156
75°	82	82	82	82	84	87
85°	18	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°	482.5	482.5	482.5	482.5	482.5
2.5°	481.7	482.5	481.5	481.7	482.6
5°	479.4	480.3	479.8	479.9	480.4
7.5°	476.2	477.4	476.7	476.9	477.4
10°	472.4	473.3	472.5	473.0	473.9
12.5°	467.0	467.4	467.0	467.2	468.2
15°	459.5	460.0	459.8	460.2	461.1
17.5°	450.7	451.3	451.2	452.0	452.7
20°	441.2	441.3	441.7	442.5	443.3
22.5°	430.1	430.4	430.8	431.9	432.7
25°	417.9	418.4	418.9	420.0	420.8
27.5°	405.0	405.5	406.2	407.4	408.7
30°	391.8	391.8	393.1	394.3	395.5
32.5°	378.5	378.0	379.2	380.7	383.6
35°	363.8	363.4	364.7	366.1	367.6
37.5°	348.5	348.2	349.7	351.2	352.6
40°	333.1	332.7	334.2	335.7	337.2
42.5°	317.2	317.0	318.4	319.9	321.5
45°	300.7	300.6	302.0	303.5	305.1
47.5°	283.9	283.7	285.1	286.7	288.1
50°	266.7	266.5	267.9	269.5	271.0
52.5°	249.0	249.0	250.3	251.7	254.0
55°	231.3	231.0	232.4	234.0	236.2
57.5°	213.3	212.9	214.2	215.8	217.8
60°	194.9	194.5	195.7	197.3	200.1
62.5°	176.3	175.7	176.9	178.4	180.1
65°	157.5	156.9	158.0	159.4	161.0
67.5°	138.7	138.0	139.1	140.3	141.8
70°	119.7	119.0	119.8	121.0	122.4
72.5°	100.8	100.1	100.8	101.3	103.0
75°	82.3	81.6	82.0	82.4	83.9
77.5°	64.3	63.6	64.4	64.6	65.5
80°	47.5	46.8	47.3	47.4	48.1
82.5°	32.1	31.5	32.2	31.7	32.3
85°	18.5	18.0	18.2	18.0	18.3
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)