

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: P835730

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1STD-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835730
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-30-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

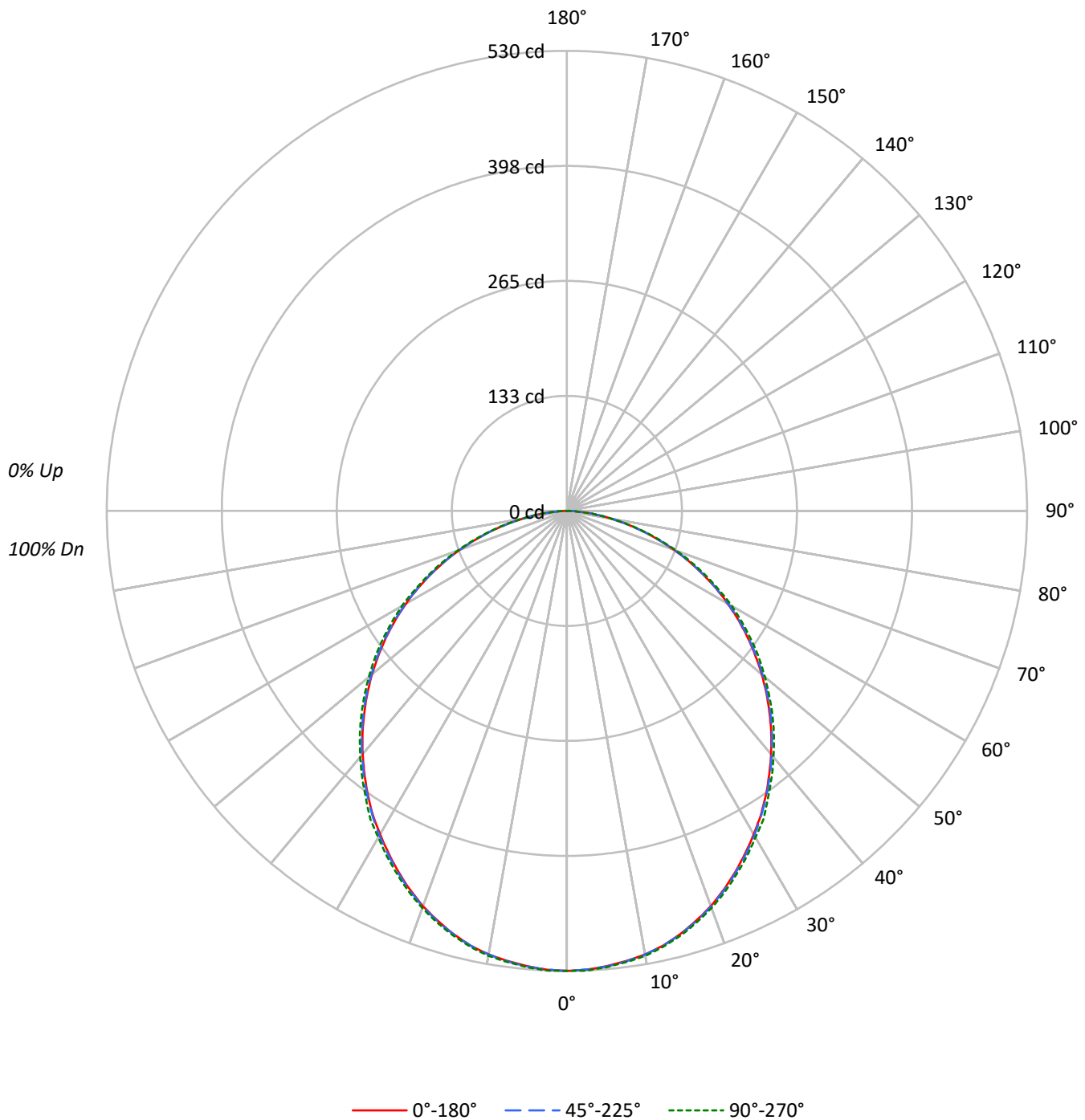
Lumens per Lamp: N/A
Luminaire Lumens: 1431.8 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
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°	1426	1426	1426
5°	1422	1423	1425
10°	1418	1418	1422
15°	1406	1407	1411
20°	1388	1389	1394
25°	1363	1366	1372
30°	1337	1341	1349
35°	1313	1316	1326
40°	1285	1289	1301
45°	1257	1262	1275
50°	1226	1232	1246
55°	1192	1197	1217
60°	1152	1157	1182
65°	1102	1105	1126
70°	1034	1035	1057
75°	940	937	959
80°	807	804	818
85°	627	618	621

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	3.5
10°-20°	142.4	9.9
20°-30°	212.0	14.8
30°-40°	250.8	17.5
40°-50°	256.0	17.9
50°-60°	228.5	16.0
60°-70°	172.1	12.0
70°-80°	96.0	6.7
80°-90°	24.0	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°	404.6	28.3
0°-40°	655.3	45.8
0°-60°	1139.8	79.6
0°-90°	1431.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1431.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	526	528	527	527	528	50
15°	505	505	505	505	506	142
25°	459	460	460	461	462	211
35°	400	399	400	402	404	250
45°	330	330	332	333	335	255
55°	254	254	255	257	259	227
65°	173	172	174	175	177	171
75°	90	90	90	90	92	96
85°	20	20	20	20	20	24
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	529.9	529.9	529.9	529.9	529.9
2.5°	529.0	529.9	528.8	529.0	530.0
5°	526.5	527.5	526.9	527.0	527.6
7.5°	523.0	524.3	523.5	523.8	524.3
10°	518.8	519.8	518.9	519.5	520.5
12.5°	512.9	513.3	512.9	513.1	514.2
15°	504.7	505.2	505.0	505.4	506.4
17.5°	495.0	495.7	495.6	496.4	497.2
20°	484.6	484.7	485.1	486.0	486.9
22.5°	472.3	472.6	473.1	474.3	475.2
25°	458.9	459.5	460.0	461.2	462.1
27.5°	444.8	445.3	446.1	447.4	448.8
30°	430.3	430.3	431.7	433.0	434.3
32.5°	415.7	415.1	416.5	418.1	421.3
35°	399.6	399.1	400.5	402.1	403.7
37.5°	382.8	382.4	384.1	385.7	387.3
40°	365.8	365.3	367.0	368.6	370.3
42.5°	348.3	348.1	349.6	351.3	353.0
45°	330.2	330.1	331.7	333.3	335.1
47.5°	311.8	311.6	313.1	314.9	316.4
50°	292.9	292.7	294.2	296.0	297.6
52.5°	273.5	273.5	274.9	276.5	279.0
55°	254.0	253.6	255.2	256.9	259.4
57.5°	234.2	233.8	235.2	237.0	239.2
60°	214.0	213.6	214.9	216.7	219.7
62.5°	193.6	193.0	194.3	195.9	197.8
65°	173.0	172.4	173.6	175.1	176.9
67.5°	152.3	151.5	152.7	154.0	155.7
70°	131.4	130.7	131.5	132.9	134.4
72.5°	110.7	109.9	110.7	111.2	113.1
75°	90.4	89.6	90.1	90.5	92.2
77.5°	70.7	69.9	70.8	71.0	72.0
80°	52.1	51.3	51.9	52.0	52.8
82.5°	35.2	34.6	35.3	34.8	35.4
85°	20.3	19.7	20.0	19.7	20.1
87.5°	8.0	7.6	7.7	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)