

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: P835046

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1STD-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835046
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-1STD-20-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

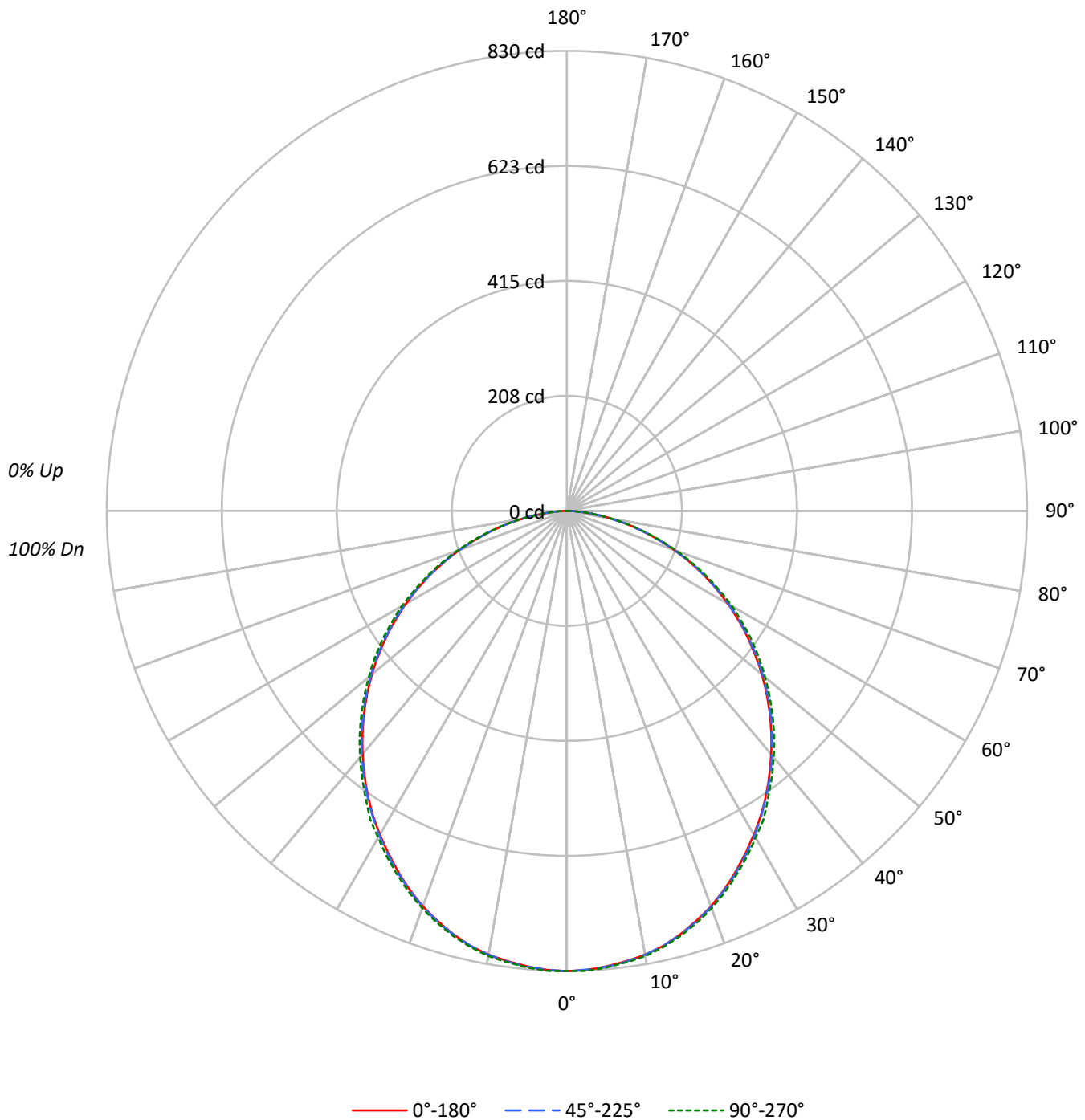
Lumens per Lamp: N/A
Luminaire Lumens: 2243.5 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	1117	1117	1117
5°	1114	1115	1117
10°	1111	1111	1114
15°	1101	1102	1105
20°	1087	1088	1092
25°	1068	1070	1075
30°	1047	1051	1057
35°	1028	1031	1039
40°	1007	1010	1019
45°	985	989	999
50°	961	965	976
55°	934	938	953
60°	903	906	927
65°	863	866	882
70°	810	811	828
75°	736	734	751
80°	633	630	641
85°	491	483	486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	3.5
10°-20°	223.2	9.9
20°-30°	332.2	14.8
30°-40°	392.9	17.5
40°-50°	401.1	17.9
50°-60°	358.0	16.0
60°-70°	269.6	12.0
70°-80°	150.3	6.7
80°-90°	37.7	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°	633.9	28.3
0°-40°	1026.8	45.8
0°-60°	1785.9	79.6
0°-90°	2243.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2243.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	825	826	826	826	827	78
15°	791	792	791	792	794	223
25°	719	720	721	723	724	331
35°	626	625	628	630	633	392
45°	517	517	520	522	525	399
55°	398	397	400	403	406	356
65°	271	270	272	274	277	268
75°	142	140	141	142	144	150
85°	32	31	31	31	32	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	830.3	830.3	830.3	830.3	830.3
2.5°	828.9	830.3	828.6	828.9	830.5
5°	825.0	826.5	825.6	825.8	826.7
7.5°	819.5	821.5	820.3	820.7	821.5
10°	812.9	814.5	813.1	814.0	815.5
12.5°	803.6	804.3	803.6	804.0	805.7
15°	790.7	791.6	791.3	792.0	793.5
17.5°	775.6	776.7	776.5	777.9	779.1
20°	759.3	759.5	760.1	761.5	762.9
22.5°	740.0	740.6	741.2	743.1	744.5
25°	719.1	719.9	720.8	722.7	724.0
27.5°	696.9	697.7	699.0	701.0	703.2
30°	674.2	674.2	676.4	678.5	680.6
32.5°	651.3	650.5	652.5	655.1	660.1
35°	626.1	625.4	627.6	630.0	632.6
37.5°	599.8	599.2	601.8	604.4	606.8
40°	573.1	572.4	575.0	577.6	580.2
42.5°	545.8	545.4	547.8	550.4	553.2
45°	517.4	517.3	519.7	522.2	525.0
47.5°	488.5	488.2	490.6	493.4	495.8
50°	459.0	458.6	461.0	463.8	466.4
52.5°	428.6	428.6	430.8	433.2	437.1
55°	398.0	397.4	399.8	402.6	406.4
57.5°	367.0	366.3	368.6	371.3	374.7
60°	335.4	334.7	336.8	339.5	344.3
62.5°	303.4	302.4	304.4	307.0	309.9
65°	271.1	270.1	271.9	274.4	277.1
67.5°	238.6	237.4	239.3	241.3	243.9
70°	205.9	204.7	206.1	208.2	210.6
72.5°	173.4	172.2	173.4	174.3	177.2
75°	141.6	140.4	141.1	141.8	144.4
77.5°	110.7	109.5	110.9	111.2	112.8
80°	81.7	80.4	81.3	81.5	82.7
82.5°	55.2	54.1	55.4	54.5	55.5
85°	31.8	30.9	31.3	30.9	31.5
87.5°	12.5	11.9	12.0	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)