

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: P835784

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

Issue Date: 5/16/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P835784
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-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

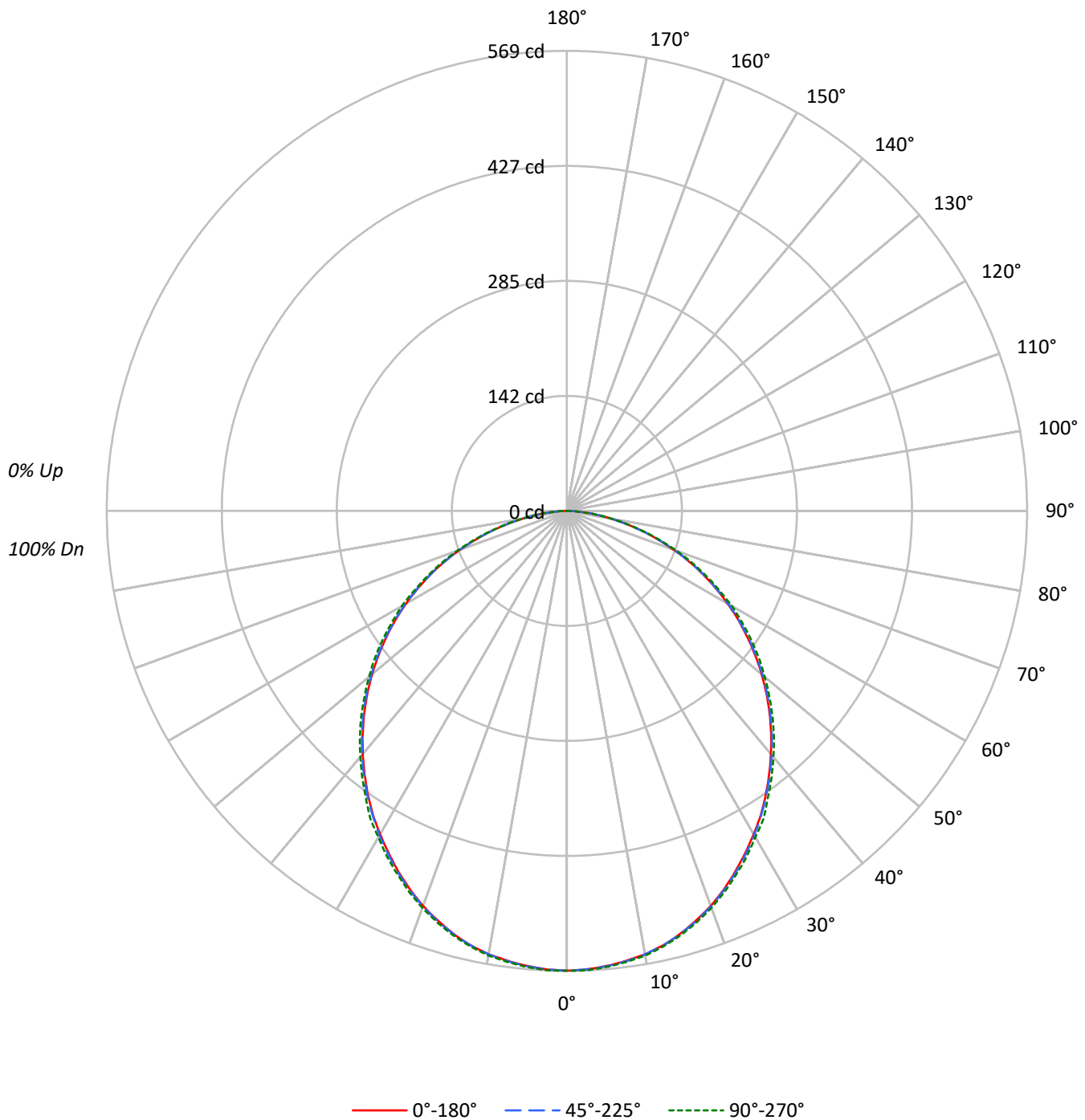
Lumens per Lamp: N/A
Luminaire Lumens: 1536.6 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		84
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		59
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		51
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		38
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		30
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1530	1530	1530
5°	1526	1528	1529
10°	1521	1522	1526
15°	1509	1510	1514
20°	1489	1491	1496
25°	1462	1466	1472
30°	1435	1440	1448
35°	1409	1412	1423
40°	1379	1383	1396
45°	1349	1354	1369
50°	1316	1322	1337
55°	1279	1285	1306
60°	1236	1241	1269
65°	1182	1186	1209
70°	1109	1111	1135
75°	1009	1005	1028
80°	866	863	877
85°	673	661	664

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	3.5
10°-20°	152.9	9.9
20°-30°	227.6	14.8
30°-40°	269.1	17.5
40°-50°	274.7	17.9
50°-60°	245.2	16.0
60°-70°	184.7	12.0
70°-80°	103.0	6.7
80°-90°	25.8	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°	434.2	28.3
0°-40°	703.3	45.8
0°-60°	1223.2	79.6
0°-90°	1536.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1536.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	569	569	569	569	569	
5°	565	566	566	566	566	54
15°	542	542	542	542	544	153
25°	492	493	494	495	496	227
35°	429	428	430	432	433	268
45°	354	354	356	358	360	273
55°	273	272	274	276	278	244
65°	186	185	186	188	190	184
75°	97	96	97	97	99	103
85°	22	21	21	21	22	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	568.7	568.7	568.7	568.7	568.7
2.5°	567.7	568.7	567.5	567.7	568.8
5°	565.0	566.1	565.5	565.6	566.2
7.5°	561.3	562.7	561.8	562.1	562.7
10°	556.8	557.8	556.9	557.5	558.5
12.5°	550.4	550.9	550.4	550.7	551.8
15°	541.6	542.2	541.9	542.4	543.5
17.5°	531.2	531.9	531.8	532.8	533.6
20°	520.0	520.2	520.6	521.6	522.5
22.5°	506.9	507.2	507.7	509.0	509.9
25°	492.5	493.1	493.7	495.0	495.9
27.5°	477.3	477.9	478.7	480.1	481.7
30°	461.8	461.8	463.3	464.7	466.1
32.5°	446.1	445.5	446.9	448.7	452.1
35°	428.8	428.3	429.9	431.5	433.3
37.5°	410.8	410.4	412.2	414.0	415.6
40°	392.5	392.1	393.8	395.6	397.4
42.5°	373.8	373.6	375.2	377.0	378.9
45°	354.4	354.3	355.9	357.7	359.6
47.5°	334.6	334.4	336.0	337.9	339.6
50°	314.4	314.1	315.8	317.7	319.4
52.5°	293.5	293.5	295.0	296.7	299.4
55°	272.6	272.2	273.9	275.7	278.3
57.5°	251.4	250.9	252.4	254.3	256.7
60°	229.7	229.2	230.6	232.5	235.8
62.5°	207.8	207.1	208.5	210.3	212.3
65°	185.7	185.0	186.3	187.9	189.8
67.5°	163.4	162.6	163.9	165.3	167.1
70°	141.0	140.2	141.2	142.6	144.2
72.5°	118.8	118.0	118.8	119.4	121.4
75°	97.0	96.2	96.7	97.1	98.9
77.5°	75.8	75.0	75.9	76.2	77.2
80°	55.9	55.1	55.7	55.8	56.6
82.5°	37.8	37.1	37.9	37.3	38.0
85°	21.8	21.2	21.4	21.2	21.5
87.5°	8.6	8.1	8.2	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)