

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: P835697

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2STD-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835697
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-LD4-2STD-20-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

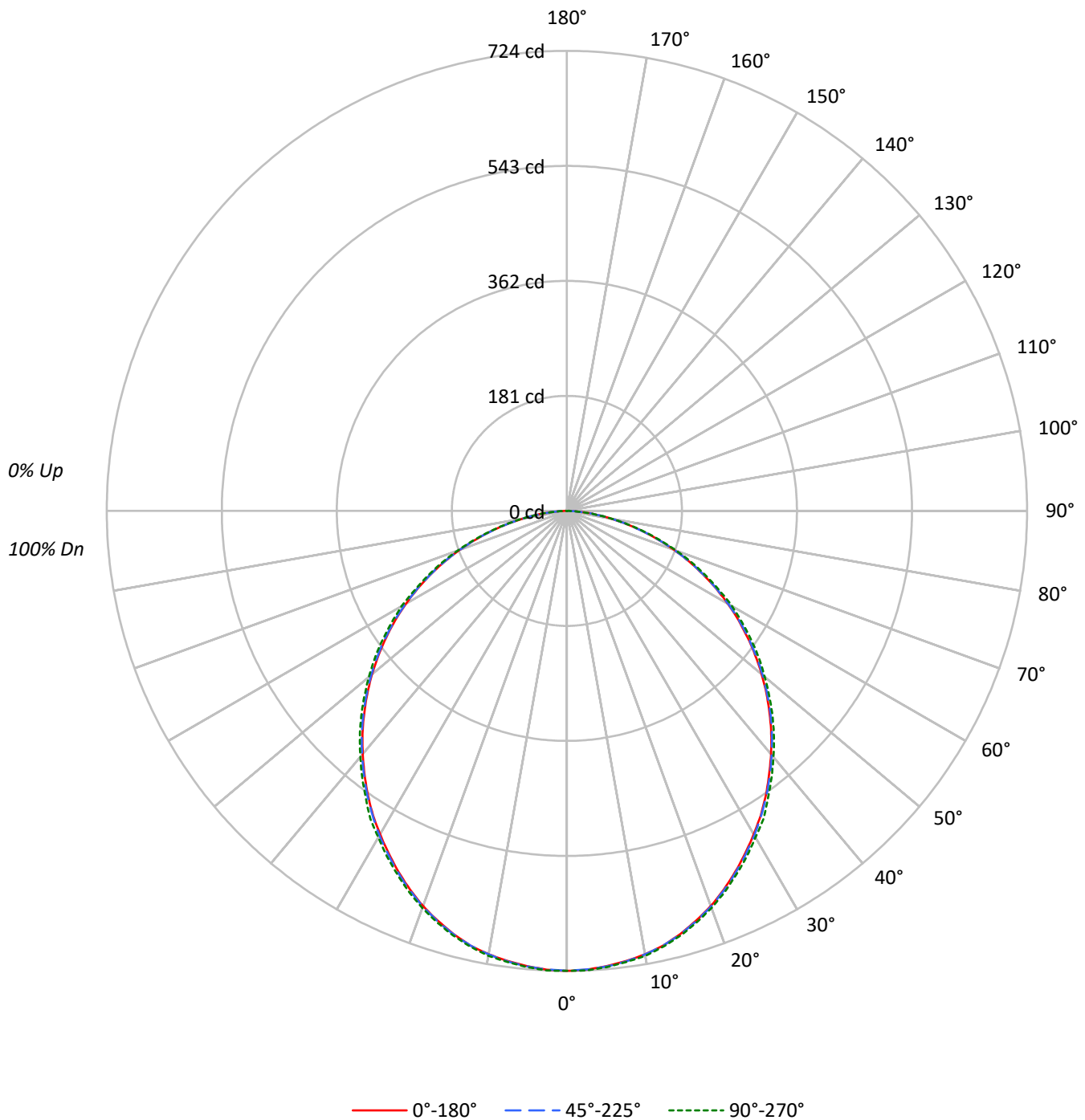
Lumens per Lamp: N/A
Luminaire Lumens: 1955.8 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1948	1948	1948
5°	1942	1944	1947
10°	1936	1937	1943
15°	1920	1922	1927
20°	1895	1897	1904
25°	1861	1866	1874
30°	1826	1832	1844
35°	1793	1797	1812
40°	1755	1761	1776
45°	1717	1724	1741
50°	1675	1683	1702
55°	1628	1635	1662
60°	1574	1580	1616
65°	1505	1510	1538
70°	1412	1414	1445
75°	1284	1279	1309
80°	1103	1099	1117
85°	855	843	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	3.5
10°-20°	194.6	9.9
20°-30°	289.6	14.8
30°-40°	342.5	17.5
40°-50°	349.7	17.9
50°-60°	312.1	16.0
60°-70°	235.0	12.0
70°-80°	131.1	6.7
80°-90°	32.8	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°	552.6	28.3
0°-40°	895.1	45.8
0°-60°	1556.8	79.6
0°-90°	1955.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1955.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	719	720	720	720	721	68
15°	689	690	690	690	692	194
25°	627	628	628	630	631	289
35°	546	545	547	549	552	341
45°	451	451	453	455	458	348
55°	347	346	349	351	354	310
65°	236	235	237	239	242	234
75°	124	122	123	124	126	131
85°	28	27	27	27	27	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	723.8	723.8	723.8	723.8	723.8
2.5°	722.6	723.8	722.3	722.6	723.9
5°	719.1	720.5	719.7	719.9	720.6
7.5°	714.3	716.1	715.1	715.4	716.1
10°	708.6	710.0	708.8	709.5	710.9
12.5°	700.6	701.2	700.6	700.9	702.4
15°	689.3	690.1	689.8	690.4	691.7
17.5°	676.1	677.0	676.9	678.1	679.1
20°	661.9	662.0	662.6	663.8	665.0
22.5°	645.1	645.6	646.2	647.8	649.0
25°	626.8	627.6	628.3	630.0	631.2
27.5°	607.5	608.2	609.3	611.1	613.0
30°	587.7	587.7	589.7	591.5	593.3
32.5°	567.8	567.0	568.8	571.1	575.4
35°	545.8	545.2	547.1	549.2	551.5
37.5°	522.8	522.4	524.6	526.9	529.0
40°	499.6	499.0	501.3	503.5	505.7
42.5°	475.8	475.5	477.6	479.8	482.2
45°	451.1	450.9	453.0	455.2	457.6
47.5°	425.9	425.6	427.7	430.1	432.2
50°	400.1	399.8	401.9	404.3	406.5
52.5°	373.6	373.6	375.5	377.6	381.1
55°	346.9	346.5	348.6	351.0	354.2
57.5°	319.9	319.3	321.3	323.7	326.7
60°	292.4	291.8	293.6	296.0	300.2
62.5°	264.5	263.6	265.4	267.6	270.2
65°	236.3	235.4	237.1	239.2	241.6
67.5°	208.0	206.9	208.6	210.4	212.6
70°	179.5	178.5	179.7	181.5	183.6
72.5°	151.2	150.2	151.2	151.9	154.5
75°	123.5	122.4	123.0	123.6	125.9
77.5°	96.5	95.5	96.7	97.0	98.3
80°	71.2	70.1	70.9	71.0	72.1
82.5°	48.1	47.2	48.3	47.5	48.4
85°	27.7	27.0	27.3	27.0	27.4
87.5°	10.9	10.3	10.5	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)