

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: P835749

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1HI-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835749
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-LD4-1HI-35-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

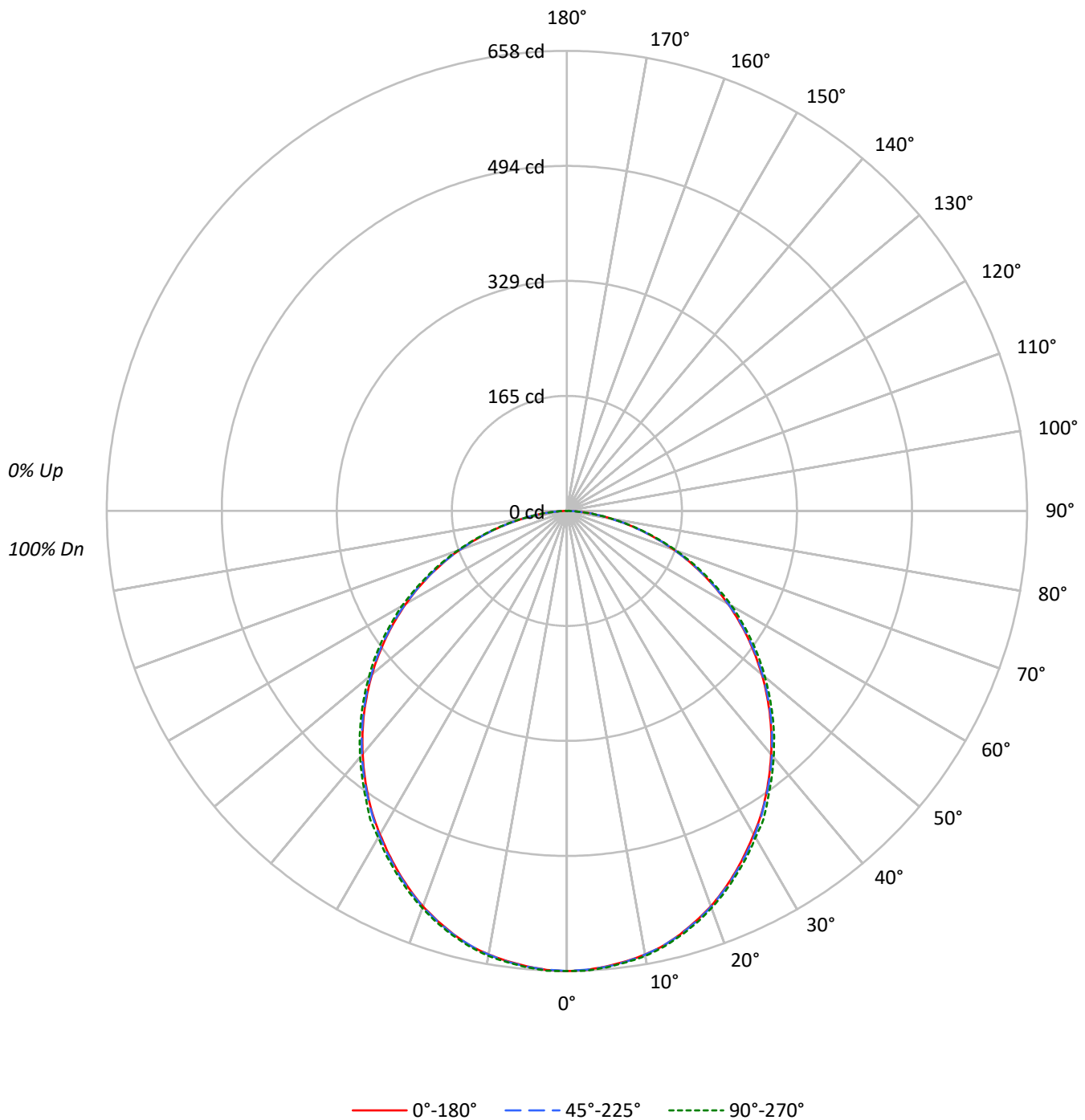
Lumens per Lamp: N/A
Luminaire Lumens: 1778.4 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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

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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°	1771	1771	1771
5°	1766	1768	1770
10°	1761	1761	1766
15°	1746	1747	1752
20°	1724	1726	1732
25°	1692	1697	1704
30°	1661	1666	1676
35°	1630	1634	1647
40°	1596	1601	1616
45°	1561	1568	1584
50°	1523	1530	1548
55°	1480	1487	1511
60°	1431	1436	1469
65°	1368	1373	1399
70°	1284	1286	1313
75°	1168	1163	1190
80°	1003	1000	1015
85°	778	766	769

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.2	3.5
10°-20°	176.9	9.9
20°-30°	263.4	14.8
30°-40°	311.5	17.5
40°-50°	318.0	17.9
50°-60°	283.8	16.0
60°-70°	213.7	12.0
70°-80°	119.2	6.7
80°-90°	29.9	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°	502.5	28.3
0°-40°	813.9	45.8
0°-60°	1415.7	79.6
0°-90°	1778.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1778.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	654	655	654	655	655	62
15°	627	628	627	628	629	177
25°	570	571	571	573	574	263
35°	496	496	498	499	502	310
45°	410	410	412	414	416	316
55°	316	315	317	319	322	282
65°	215	214	216	218	220	213
75°	112	111	112	112	114	119
85°	25	24	25	24	25	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	658.2	658.2	658.2	658.2	658.2
2.5°	657.1	658.2	656.8	657.1	658.3
5°	653.9	655.2	654.5	654.6	655.3
7.5°	649.6	651.2	650.3	650.5	651.2
10°	644.4	645.6	644.5	645.2	646.4
12.5°	637.0	637.6	637.0	637.3	638.7
15°	626.8	627.5	627.2	627.8	629.0
17.5°	614.8	615.6	615.5	616.6	617.6
20°	601.9	602.0	602.6	603.7	604.7
22.5°	586.6	587.0	587.6	589.1	590.2
25°	570.0	570.7	571.4	572.9	573.9
27.5°	552.4	553.1	554.1	555.7	557.5
30°	534.4	534.4	536.2	537.8	539.5
32.5°	516.3	515.6	517.3	519.3	523.3
35°	496.3	495.7	497.5	499.4	501.5
37.5°	475.4	475.0	477.1	479.1	481.0
40°	454.3	453.8	455.8	457.8	459.9
42.5°	432.6	432.4	434.3	436.3	438.5
45°	410.2	410.0	411.9	414.0	416.2
47.5°	387.3	387.0	388.9	391.1	393.0
50°	363.8	363.6	365.5	367.6	369.7
52.5°	339.7	339.7	341.5	343.4	346.5
55°	315.5	315.0	317.0	319.1	322.1
57.5°	290.9	290.4	292.2	294.3	297.1
60°	265.9	265.3	266.9	269.1	272.9
62.5°	240.5	239.7	241.3	243.4	245.7
65°	214.9	214.1	215.6	217.5	219.7
67.5°	189.1	188.2	189.7	191.3	193.4
70°	163.2	162.3	163.4	165.0	166.9
72.5°	137.5	136.5	137.5	138.2	140.5
75°	112.3	111.3	111.9	112.4	114.5
77.5°	87.8	86.8	87.9	88.2	89.4
80°	64.7	63.8	64.5	64.6	65.5
82.5°	43.7	42.9	43.9	43.2	44.0
85°	25.2	24.5	24.8	24.5	24.9
87.5°	9.9	9.4	9.5	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)