

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: P835728

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6HI-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835728
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-LD4-6HI-27-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

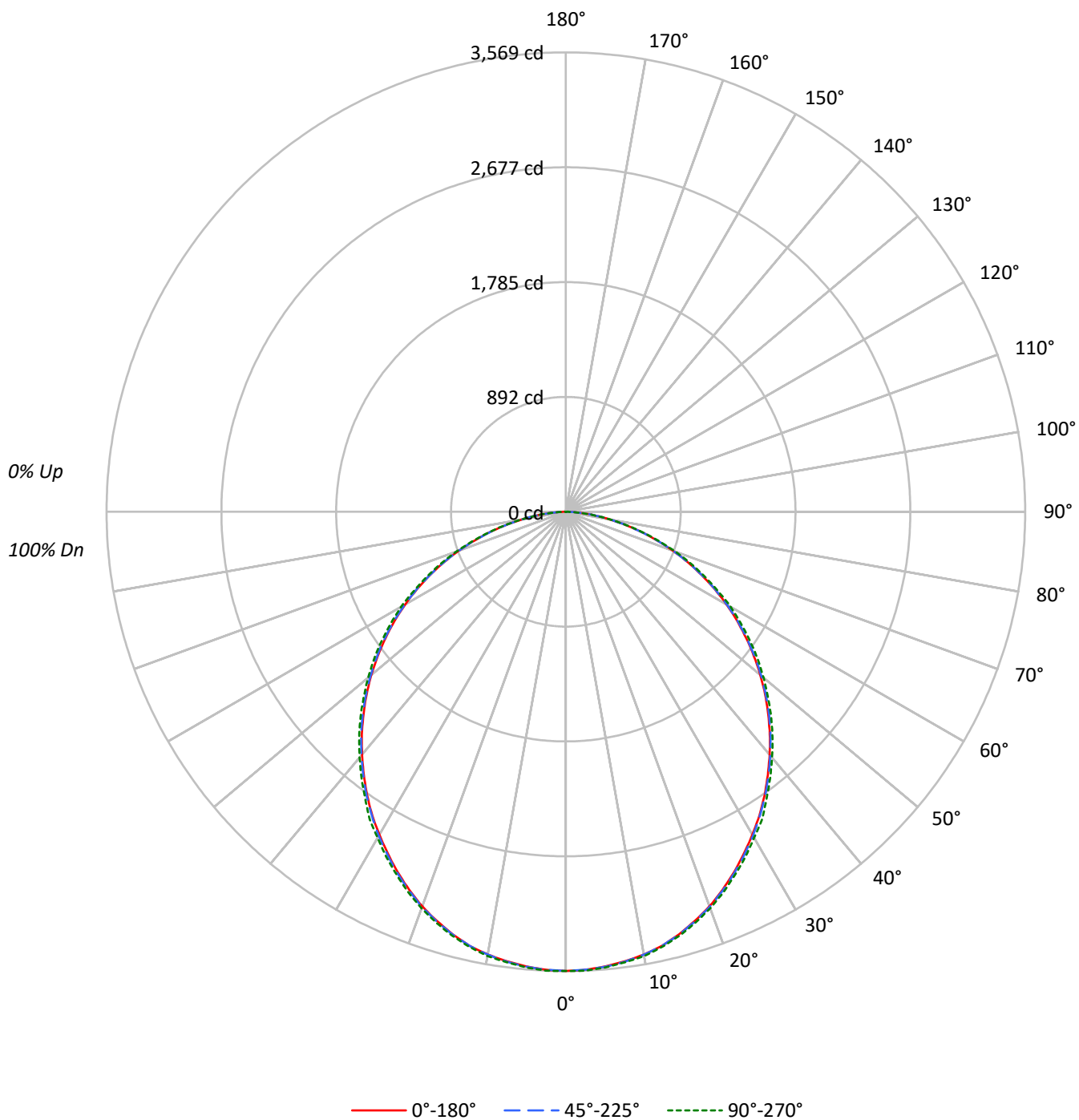
Lumens per Lamp: N/A
Luminaire Lumens: 9640.9 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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°	9601	9601	9601
5°	9576	9584	9596
10°	9545	9547	9576
15°	9467	9473	9499
20°	9344	9354	9388
25°	9175	9197	9238
30°	9002	9032	9087
35°	8838	8860	8930
40°	8651	8680	8758
45°	8462	8498	8585
50°	8257	8294	8390
55°	8023	8061	8193
60°	7756	7788	7963
65°	7417	7441	7582
70°	6963	6969	7120
75°	6329	6306	6451
80°	5438	5415	5506
85°	4221	4150	4174

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.2	3.5
10°-20°	959.0	9.9
20°-30°	1427.7	14.8
30°-40°	1688.4	17.5
40°-50°	1723.6	17.9
50°-60°	1538.3	16.0
60°-70°	1158.6	12.0
70°-80°	646.1	6.7
80°-90°	161.9	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°	2723.9	28.3
0°-40°	4412.4	45.8
0°-60°	7674.3	79.6
0°-90°	9640.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9640.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3568	3568	3568	3568	3568	
5°	3545	3552	3548	3549	3552	337
15°	3398	3402	3400	3403	3410	958
25°	3090	3094	3097	3106	3111	1424
35°	2690	2687	2697	2707	2718	1682
45°	2224	2223	2233	2244	2256	1715
55°	1710	1708	1718	1730	1746	1529
65°	1165	1160	1169	1179	1191	1152
75°	609	604	606	609	620	645
85°	137	133	134	133	135	164
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3567.9	3567.9	3567.9	3567.9	3567.9
2.5°	3562.0	3567.9	3560.5	3562.0	3568.6
5°	3545.0	3551.7	3548.0	3548.7	3552.4
7.5°	3521.4	3530.2	3525.1	3526.5	3530.2
10°	3493.3	3499.9	3494.0	3497.7	3504.4
12.5°	3453.4	3456.4	3453.4	3454.9	3462.3
15°	3398.0	3401.7	3400.2	3403.2	3409.8
17.5°	3333.0	3337.4	3336.7	3342.6	3347.8
20°	3262.8	3263.6	3266.5	3272.4	3278.3
22.5°	3180.1	3182.3	3185.3	3193.4	3199.3
25°	3090.0	3093.7	3097.4	3105.5	3111.4
27.5°	2994.7	2998.4	3003.5	3012.4	3022.0
30°	2897.2	2897.2	2906.8	2915.6	2924.5
32.5°	2798.9	2795.2	2804.1	2815.2	2836.6
35°	2690.3	2687.4	2697.0	2707.3	2718.4
37.5°	2577.3	2575.1	2586.2	2597.3	2607.6
40°	2462.8	2459.9	2470.9	2482.0	2493.1
42.5°	2345.4	2343.9	2354.2	2365.3	2377.1
45°	2223.5	2222.7	2233.1	2244.2	2256.0
47.5°	2099.4	2097.9	2108.2	2120.1	2130.4
50°	1972.3	1970.8	1981.2	1993.0	2004.1
52.5°	1841.6	1841.6	1851.2	1861.5	1878.5
55°	1710.1	1707.9	1718.2	1730.0	1746.3
57.5°	1577.1	1574.2	1583.8	1595.6	1610.4
60°	1441.2	1438.2	1447.1	1458.9	1479.6
62.5°	1303.8	1299.4	1308.2	1319.3	1331.9
65°	1164.9	1160.5	1168.6	1179.0	1190.8
67.5°	1025.3	1020.1	1028.3	1037.1	1048.2
70°	885.0	879.8	885.7	894.6	904.9
72.5°	745.3	740.2	745.3	749.0	761.6
75°	608.7	603.5	606.5	609.4	620.5
77.5°	475.7	470.5	476.5	477.9	484.6
80°	350.9	345.7	349.4	350.1	355.3
82.5°	237.1	232.7	237.9	234.2	238.6
85°	136.7	133.0	134.4	133.0	135.2
87.5°	53.9	51.0	51.7	48.8	48.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)