

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: P835780

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6LO-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835780
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-LD4-6LO-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

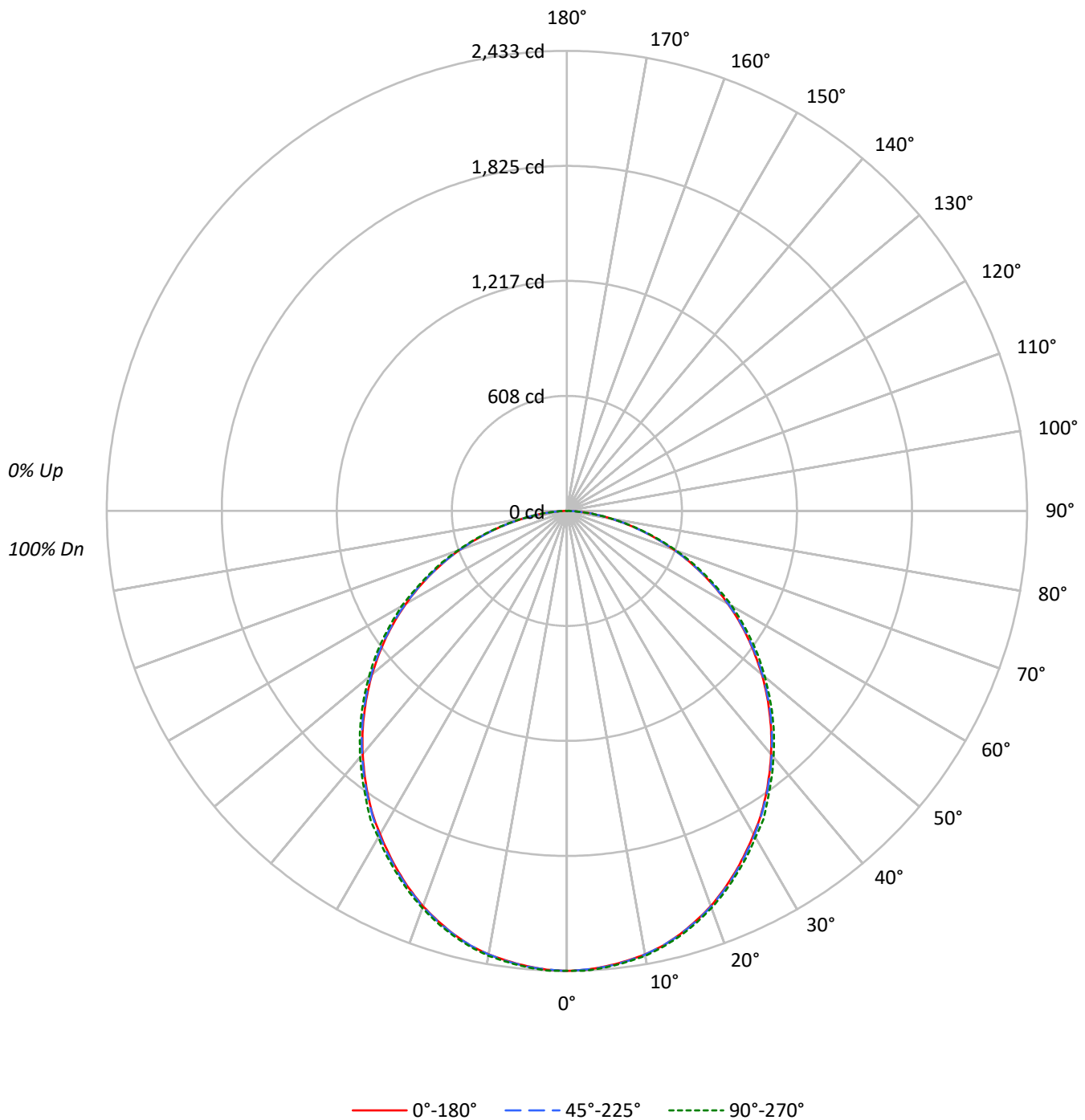
Lumens per Lamp: N/A
Luminaire Lumens: 6573.4 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	6546	6546	6546
5°	6529	6535	6543
10°	6508	6510	6529
15°	6455	6459	6477
20°	6371	6378	6401
25°	6255	6271	6299
30°	6138	6158	6196
35°	6026	6041	6089
40°	5899	5918	5971
45°	5769	5794	5854
50°	5630	5655	5720
55°	5470	5496	5586
60°	5288	5310	5429
65°	5058	5074	5170
70°	4747	4751	4854
75°	4315	4299	4399
80°	3707	3691	3755
85°	2878	2831	2847

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.9	3.5
10°-20°	653.9	9.9
20°-30°	973.5	14.8
30°-40°	1151.2	17.5
40°-50°	1175.2	17.9
50°-60°	1048.8	16.0
60°-70°	790.0	12.0
70°-80°	440.6	6.7
80°-90°	110.4	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°	1857.3	28.3
0°-40°	3008.5	45.8
0°-60°	5232.5	79.6
0°-90°	6573.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6573.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2433	2433	2433	2433	2433	
5°	2417	2422	2419	2420	2422	230
15°	2317	2319	2318	2320	2325	653
25°	2107	2109	2112	2117	2121	971
35°	1834	1832	1839	1846	1854	1147
45°	1516	1516	1523	1530	1538	1169
55°	1166	1164	1172	1180	1191	1042
65°	794	791	797	804	812	786
75°	415	412	414	416	423	440
85°	93	91	92	91	92	112
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2432.7	2432.7	2432.7	2432.7	2432.7
2.5°	2428.7	2432.7	2427.7	2428.7	2433.2
5°	2417.1	2421.6	2419.1	2419.6	2422.1
7.5°	2401.0	2407.0	2403.5	2404.5	2407.0
10°	2381.8	2386.4	2382.3	2384.8	2389.4
12.5°	2354.6	2356.6	2354.6	2355.6	2360.7
15°	2316.9	2319.4	2318.4	2320.4	2324.9
17.5°	2272.5	2275.5	2275.0	2279.1	2282.6
20°	2224.7	2225.2	2227.2	2231.2	2235.3
22.5°	2168.3	2169.8	2171.8	2177.3	2181.4
25°	2106.8	2109.3	2111.9	2117.4	2121.4
27.5°	2041.9	2044.4	2047.9	2053.9	2060.5
30°	1975.4	1975.4	1981.9	1988.0	1994.0
32.5°	1908.4	1905.9	1911.9	1919.5	1934.1
35°	1834.3	1832.3	1838.9	1845.9	1853.5
37.5°	1757.3	1755.8	1763.3	1770.9	1777.9
40°	1679.2	1677.2	1684.8	1692.3	1699.9
42.5°	1599.1	1598.1	1605.2	1612.7	1620.8
45°	1516.0	1515.5	1522.6	1530.1	1538.2
47.5°	1431.4	1430.4	1437.5	1445.5	1452.6
50°	1344.8	1343.8	1350.8	1358.9	1366.4
52.5°	1255.6	1255.6	1262.2	1269.2	1280.8
55°	1166.0	1164.5	1171.5	1179.6	1190.7
57.5°	1075.3	1073.3	1079.9	1087.9	1098.0
60°	982.6	980.6	986.7	994.7	1008.8
62.5°	889.0	885.9	892.0	899.5	908.1
65°	794.3	791.3	796.8	803.8	811.9
67.5°	699.1	695.6	701.1	707.1	714.7
70°	603.4	599.9	603.9	609.9	617.0
72.5°	508.2	504.7	508.2	510.7	519.3
75°	415.0	411.5	413.5	415.5	423.1
77.5°	324.4	320.8	324.9	325.9	330.4
80°	239.2	235.7	238.2	238.7	242.3
82.5°	161.7	158.7	162.2	159.7	162.7
85°	93.2	90.7	91.7	90.7	92.2
87.5°	36.8	34.8	35.3	33.2	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)