

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: P835631

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4STD-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835631
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-LD4-4STD-30-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

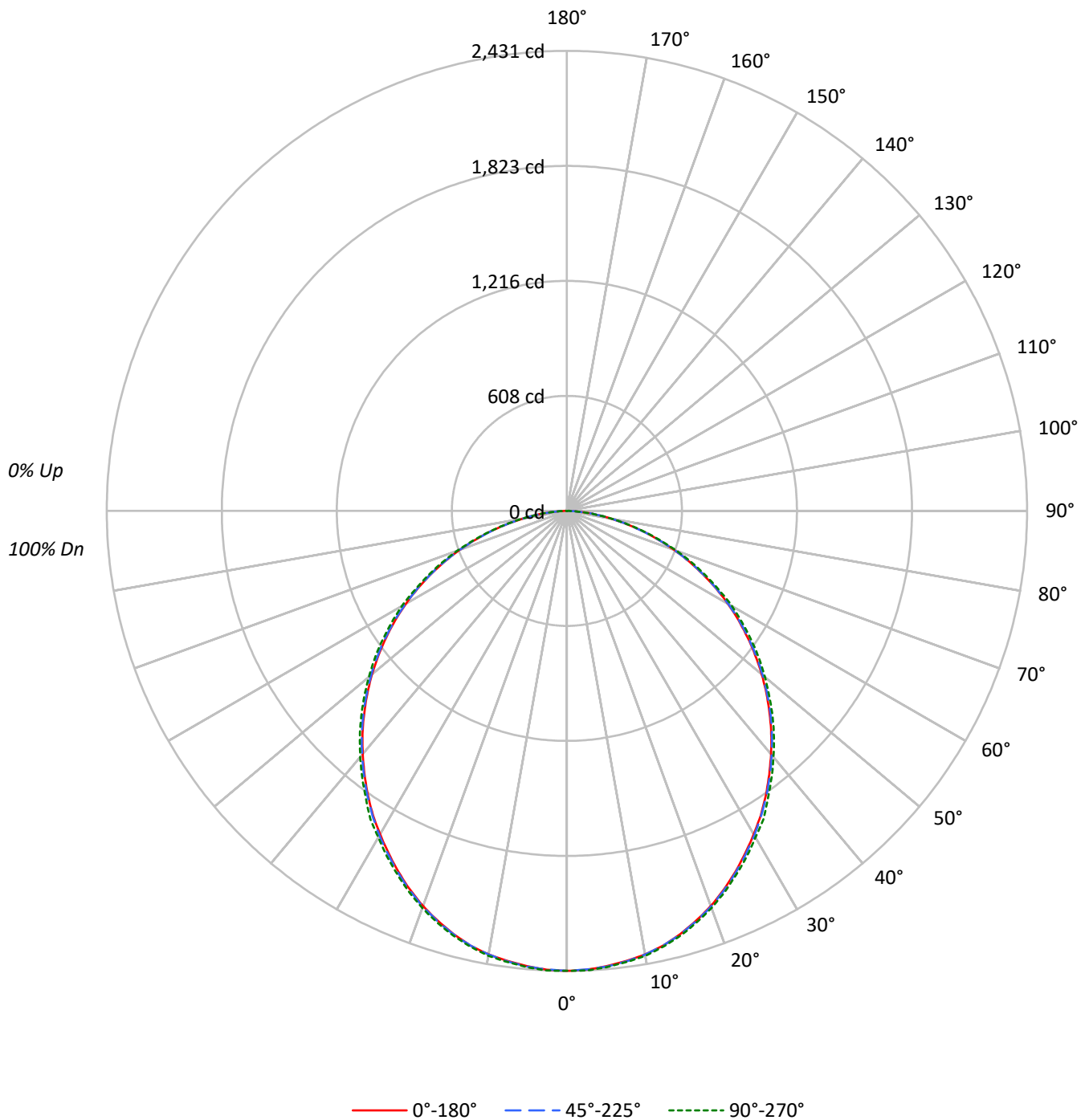
Lumens per Lamp: N/A
Luminaire Lumens: 6567.3 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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



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	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6540	6540	6540
5°	6523	6529	6537
10°	6502	6504	6523
15°	6449	6453	6471
20°	6365	6372	6395
25°	6250	6265	6293
30°	6132	6153	6190
35°	6020	6035	6083
40°	5893	5913	5966
45°	5764	5789	5848
50°	5624	5650	5715
55°	5465	5491	5581
60°	5283	5306	5424
65°	5053	5069	5165
70°	4743	4747	4850
75°	4311	4295	4395
80°	3704	3688	3750
85°	2875	2828	2844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.7	3.5
10°-20°	653.3	9.9
20°-30°	972.6	14.8
30°-40°	1150.1	17.5
40°-50°	1174.1	17.9
50°-60°	1047.9	16.0
60°-70°	789.2	12.0
70°-80°	440.1	6.7
80°-90°	110.3	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°	1855.5	28.3
0°-40°	3005.7	45.8
0°-60°	5227.7	79.6
0°-90°	6567.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6567.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2430	2430	2430	2430	2430	
5°	2415	2419	2417	2417	2420	229
15°	2315	2317	2316	2318	2323	652
25°	2105	2107	2110	2115	2120	970
35°	1833	1831	1837	1844	1852	1146
45°	1515	1514	1521	1529	1537	1168
55°	1165	1163	1170	1178	1190	1041
65°	794	790	796	803	811	785
75°	415	411	413	415	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°	2430.4	2430.4	2430.4	2430.4	2430.4
2.5°	2426.4	2430.4	2425.4	2426.4	2430.9
5°	2414.8	2419.4	2416.9	2417.4	2419.9
7.5°	2398.7	2404.8	2401.3	2402.3	2404.8
10°	2379.6	2384.1	2380.1	2382.6	2387.2
12.5°	2352.4	2354.5	2352.4	2353.4	2358.5
15°	2314.7	2317.2	2316.2	2318.2	2322.8
17.5°	2270.4	2273.4	2272.9	2277.0	2280.5
20°	2222.6	2223.1	2225.1	2229.2	2233.2
22.5°	2166.3	2167.8	2169.8	2175.3	2179.3
25°	2104.9	2107.4	2109.9	2115.4	2119.5
27.5°	2040.0	2042.5	2046.0	2052.0	2058.6
30°	1973.5	1973.5	1980.1	1986.1	1992.2
32.5°	1906.6	1904.1	1910.1	1917.7	1932.3
35°	1832.6	1830.6	1837.2	1844.2	1851.8
37.5°	1755.7	1754.1	1761.7	1769.2	1776.3
40°	1677.7	1675.6	1683.2	1690.7	1698.3
42.5°	1597.6	1596.6	1603.7	1611.2	1619.3
45°	1514.6	1514.1	1521.2	1528.7	1536.8
47.5°	1430.1	1429.1	1436.1	1444.2	1451.2
50°	1343.5	1342.5	1349.6	1357.6	1365.2
52.5°	1254.5	1254.5	1261.0	1268.1	1279.6
55°	1164.9	1163.4	1170.4	1178.5	1189.6
57.5°	1074.3	1072.3	1078.9	1086.9	1097.0
60°	981.7	979.7	985.8	993.8	1007.9
62.5°	888.1	885.1	891.2	898.7	907.3
65°	793.5	790.5	796.1	803.1	811.2
67.5°	698.4	694.9	700.4	706.5	714.0
70°	602.8	599.3	603.3	609.4	616.4
72.5°	507.7	504.2	507.7	510.2	518.8
75°	414.6	411.1	413.1	415.1	422.7
77.5°	324.1	320.5	324.6	325.6	330.1
80°	239.0	235.5	238.0	238.5	242.0
82.5°	161.5	158.5	162.0	159.5	162.5
85°	93.1	90.6	91.6	90.6	92.1
87.5°	36.7	34.7	35.2	33.2	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)