

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: P487226

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3LO-30-120-EDD-90**

Issue Date: 3/1/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P487226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35355)
Test Lab: INNOVATION CENTER
Issue Date: 3/1/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-A125-LD4-3LO-30-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

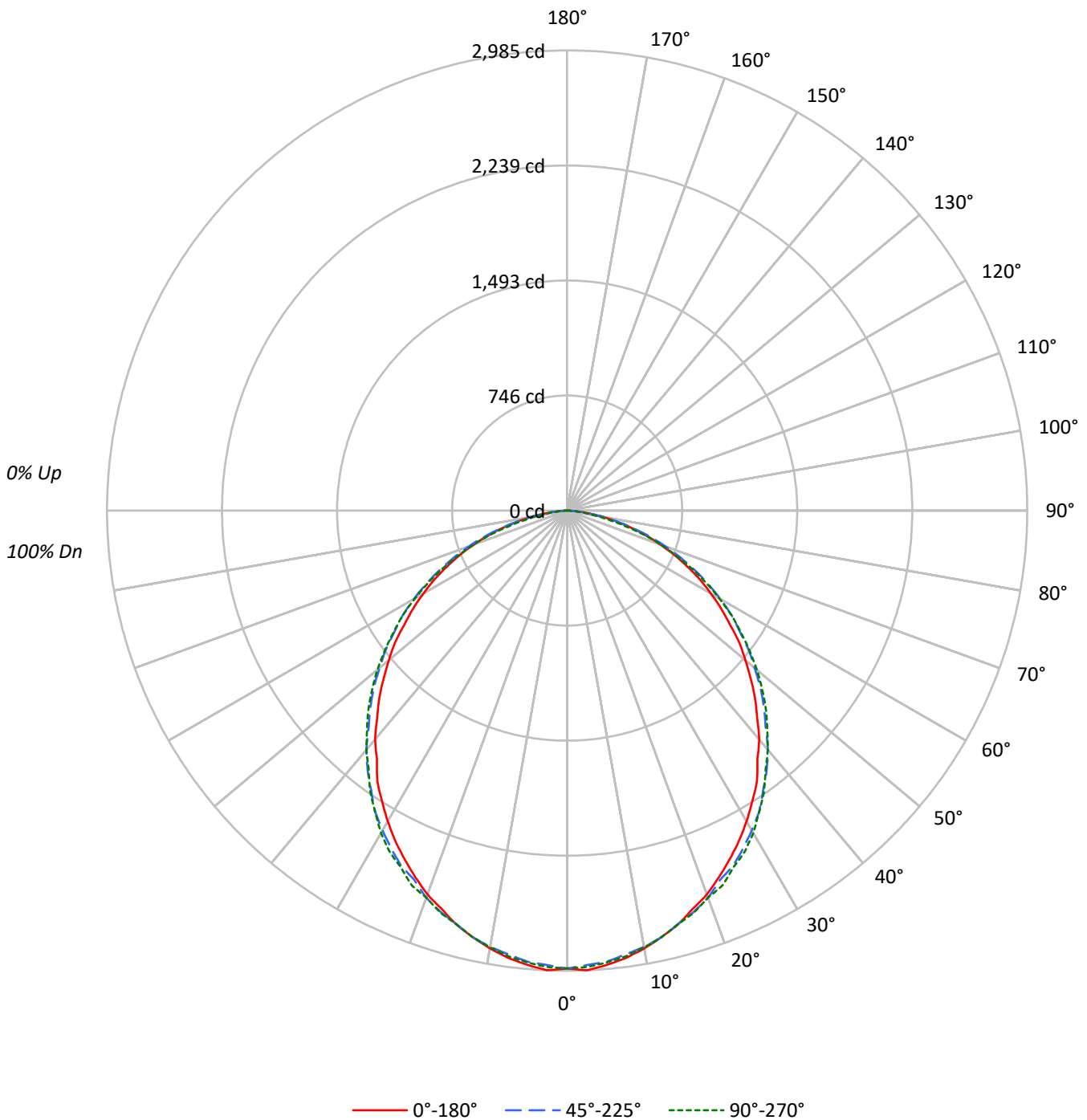
Lumens per Lamp: N/A
Luminaire Lumens: 7628.8 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
Input Voltage (V): NR
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: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																												
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85																												
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71																												
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60																												
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52																												
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																												
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39																												
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35																												
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31																												
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28																												
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3996	3996	3996
5°	3996	3968	3974
10°	3940	3927	3931
15°	3873	3868	3870
20°	3795	3827	3825
25°	3705	3778	3790
30°	3615	3721	3752
35°	3526	3641	3657
40°	3406	3560	3557
45°	3282	3436	3470
50°	3158	3321	3365
55°	3025	3204	3223
60°	2897	3090	3068
65°	2745	2900	2843
70°	2530	2664	2543
75°	2237	2330	2035
80°	1799	1825	1422
85°	1178	1129	827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.2	3.7
10°-20°	785.0	10.3
20°-30°	1168.7	15.3
30°-40°	1375.6	18.0
40°-50°	1379.2	18.1
50°-60°	1209.5	15.9
60°-70°	884.4	11.6
70°-80°	455.8	6.0
80°-90°	91.4	1.2
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°	2232.8	29.3
0°-40°	3608.5	47.3
0°-60°	6197.2	81.2
0°-90°	7628.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7628.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2970	2970	2970	2970	2970	
5°	2959	2939	2938	2957	2942	280
15°	2780	2785	2777	2795	2778	782
25°	2496	2507	2545	2580	2553	1150
35°	2147	2156	2217	2241	2226	1337
45°	1725	1733	1806	1828	1824	1329
55°	1289	1319	1366	1385	1374	1157
65°	862	882	911	908	893	853
75°	430	434	448	417	391	456
85°	76	75	73	58	54	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2970.1	2970.1	2970.1	2970.1	2970.1
2.5°	2984.7	2970.1	2950.6	2966.8	2963.6
5°	2958.7	2939.2	2937.6	2957.1	2942.5
7.5°	2926.2	2923.0	2903.5	2924.6	2916.5
10°	2884.0	2880.7	2874.3	2888.9	2877.5
12.5°	2833.7	2830.4	2833.7	2841.8	2833.7
15°	2780.1	2784.9	2776.8	2794.7	2778.4
17.5°	2708.6	2713.5	2729.7	2736.2	2734.6
20°	2650.2	2653.4	2672.9	2698.9	2671.3
22.5°	2573.8	2582.0	2591.7	2638.8	2632.3
25°	2495.9	2507.3	2544.6	2580.3	2552.7
27.5°	2414.7	2426.1	2471.5	2497.5	2494.3
30°	2327.0	2338.4	2395.2	2430.9	2414.7
32.5°	2236.1	2255.6	2317.3	2348.1	2317.3
35°	2146.8	2156.5	2216.6	2240.9	2226.3
37.5°	2028.2	2065.6	2125.6	2141.9	2115.9
40°	1938.9	1940.5	2026.6	2026.6	2025.0
42.5°	1823.6	1849.6	1906.4	1937.3	1921.0
45°	1724.6	1732.7	1805.7	1828.5	1823.6
47.5°	1615.8	1648.2	1701.8	1727.8	1714.8
50°	1508.6	1531.3	1586.5	1620.6	1607.6
52.5°	1409.5	1427.4	1484.2	1503.7	1490.7
55°	1289.4	1318.6	1365.7	1385.2	1373.8
57.5°	1185.4	1206.5	1265.0	1271.5	1265.0
60°	1076.6	1101.0	1148.1	1152.9	1140.0
62.5°	972.7	988.9	1031.2	1032.8	1018.2
65°	862.3	881.8	911.0	907.7	893.1
67.5°	753.5	766.5	794.1	782.7	766.5
70°	643.1	654.4	677.2	660.9	646.3
72.5°	535.9	544.0	563.5	539.1	521.3
75°	430.3	433.6	448.2	417.3	391.4
77.5°	326.4	329.6	337.8	306.9	277.7
80°	232.2	232.2	235.5	203.0	183.5
82.5°	146.1	146.1	144.5	120.2	108.8
85°	76.3	74.7	73.1	58.5	53.6
87.5°	27.6	27.6	22.7	21.1	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)