

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: P487230

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3LO-40-120-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: P487230
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-40-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

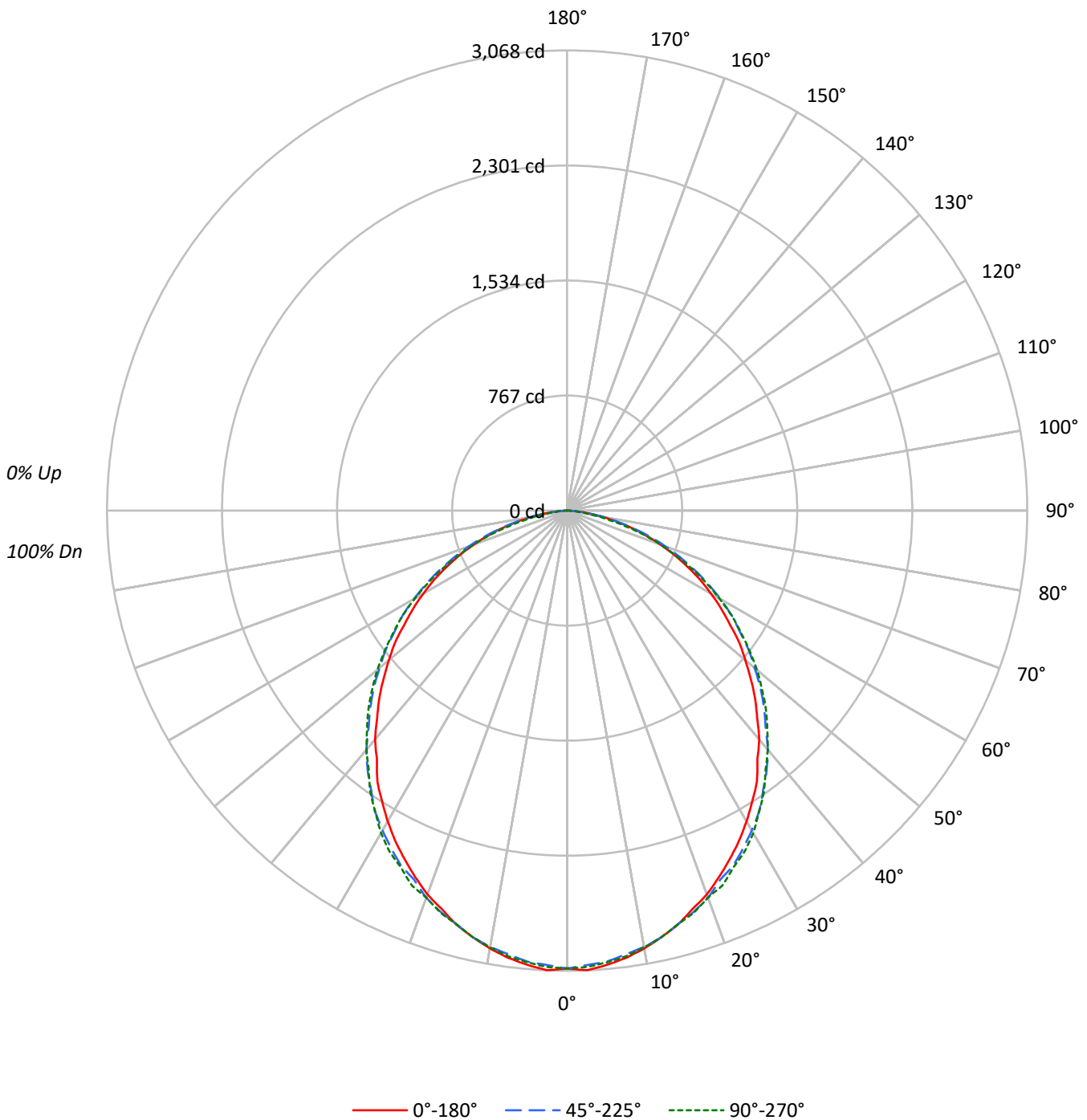
Lumens per Lamp: N/A
Luminaire Lumens: 7840.5 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	4107	4107	4107
5°	4107	4078	4084
10°	4050	4036	4041
15°	3980	3975	3978
20°	3900	3933	3931
25°	3808	3882	3895
30°	3716	3825	3856
35°	3624	3742	3758
40°	3500	3658	3655
45°	3373	3531	3566
50°	3245	3413	3458
55°	3108	3293	3312
60°	2978	3175	3153
65°	2821	2981	2922
70°	2600	2738	2613
75°	2299	2394	2091
80°	1850	1875	1461
85°	1210	1159	851



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.9	3.7
10°-20°	806.8	10.3
20°-30°	1201.1	15.3
30°-40°	1413.8	18.0
40°-50°	1417.5	18.1
50°-60°	1243.0	15.9
60°-70°	908.9	11.6
70°-80°	468.4	6.0
80°-90°	94.0	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°	2294.8	29.3
0°-40°	3708.6	47.3
0°-60°	6369.1	81.2
0°-90°	7840.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7840.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3052	3052	3052	3052	3052	
5°	3041	3021	3019	3039	3024	288
15°	2857	2862	2854	2872	2856	804
25°	2565	2577	2615	2652	2624	1182
35°	2206	2216	2278	2303	2288	1374
45°	1772	1781	1856	1879	1874	1366
55°	1325	1355	1404	1424	1412	1189
65°	886	906	936	933	918	877
75°	442	446	461	429	402	469
85°	78	77	75	60	55	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3052.5	3052.5	3052.5	3052.5	3052.5
2.5°	3067.5	3052.5	3032.5	3049.1	3045.8
5°	3040.8	3020.8	3019.1	3039.1	3024.1
7.5°	3007.4	3004.1	2984.1	3005.8	2997.4
10°	2964.0	2960.7	2954.0	2969.0	2957.4
12.5°	2912.3	2909.0	2912.3	2920.6	2912.3
15°	2857.2	2862.2	2853.9	2872.2	2855.5
17.5°	2783.8	2788.8	2805.5	2812.2	2810.5
20°	2723.7	2727.0	2747.1	2773.8	2745.4
22.5°	2645.3	2653.6	2663.6	2712.0	2705.3
25°	2565.2	2576.8	2615.2	2651.9	2623.6
27.5°	2481.7	2493.4	2540.1	2566.8	2563.5
30°	2391.6	2403.3	2461.7	2498.4	2481.7
32.5°	2298.1	2318.2	2381.6	2413.3	2381.6
35°	2206.3	2216.3	2278.1	2303.1	2288.1
37.5°	2084.5	2122.9	2184.6	2201.3	2174.6
40°	1992.7	1994.4	2082.8	2082.8	2081.2
42.5°	1874.2	1900.9	1959.3	1991.0	1974.4
45°	1772.4	1780.8	1855.9	1879.2	1874.2
47.5°	1660.6	1694.0	1749.0	1775.7	1762.4
50°	1550.4	1573.8	1630.5	1665.6	1652.2
52.5°	1448.6	1467.0	1525.4	1545.4	1532.1
55°	1325.1	1355.2	1403.6	1423.6	1411.9
57.5°	1218.3	1240.0	1300.1	1306.8	1300.1
60°	1106.5	1131.5	1179.9	1184.9	1171.6
62.5°	999.7	1016.4	1059.8	1061.4	1046.4
65°	886.2	906.2	936.3	932.9	917.9
67.5°	774.4	787.7	816.1	804.4	787.7
70°	660.9	672.6	695.9	679.3	664.2
72.5°	550.7	559.1	579.1	554.1	535.7
75°	442.3	445.6	460.6	428.9	402.2
77.5°	335.5	338.8	347.1	315.4	285.4
80°	238.7	238.7	242.0	208.6	188.6
82.5°	150.2	150.2	148.5	123.5	111.8
85°	78.4	76.8	75.1	60.1	55.1
87.5°	28.4	28.4	23.4	21.7	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)