

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: P487208

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2STD-50-120-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: P487208
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-LD4-2STD-50-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

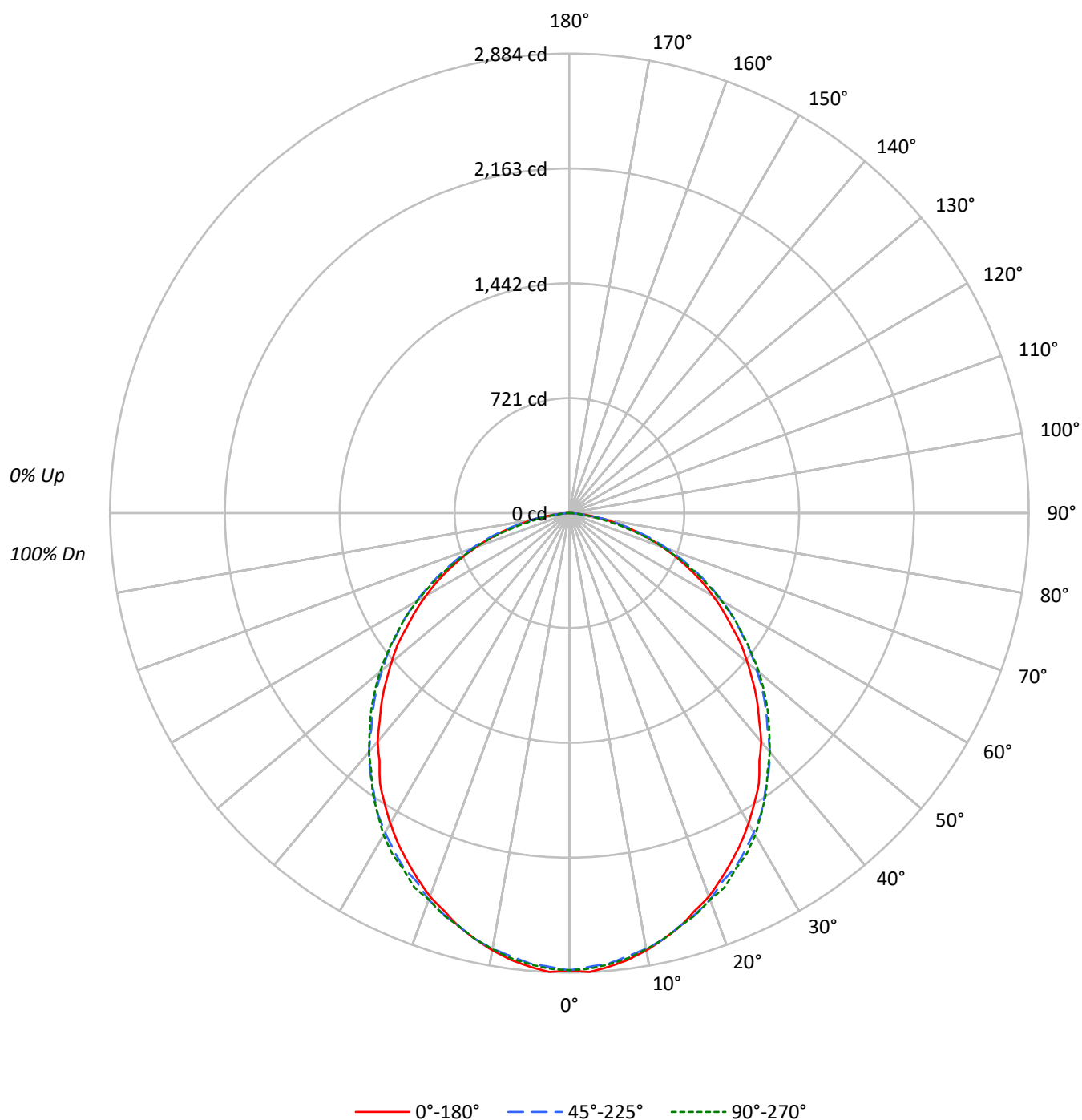
Lumens per Lamp: N/A
Luminaire Lumens: 7370.8 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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
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	105	101	97	107	102	99	95	98	95	92		94	92	90		91
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71
4	83	72	63	57	81	70	62	56	68	61	55		66	59	55		63
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3861	3861	3861
5°	3861	3833	3840
10°	3807	3794	3798
15°	3742	3737	3739
20°	3666	3698	3695
25°	3580	3650	3662
30°	3493	3595	3625
35°	3407	3518	3533
40°	3290	3439	3436
45°	3170	3320	3353
50°	3051	3209	3251
55°	2922	3095	3114
60°	2799	2985	2964
65°	2652	2802	2747
70°	2444	2574	2456
75°	2162	2251	1966
80°	1739	1763	1374
85°	1138	1090	800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.7	3.7
10°-20°	758.4	10.3
20°-30°	1129.2	15.3
30°-40°	1329.1	18.0
40°-50°	1332.6	18.1
50°-60°	1168.6	15.9
60°-70°	854.5	11.6
70°-80°	440.4	6.0
80°-90°	88.4	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°	2157.3	29.3
0°-40°	3486.4	47.3
0°-60°	5987.6	81.2
0°-90°	7370.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7370.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2870	2870	2870	2870	2870	
5°	2859	2840	2838	2857	2843	271
15°	2686	2691	2683	2700	2684	756
25°	2412	2422	2459	2493	2466	1111
35°	2074	2084	2142	2165	2151	1292
45°	1666	1674	1745	1767	1762	1284
55°	1246	1274	1320	1338	1327	1118
65°	833	852	880	877	863	824
75°	416	419	433	403	378	441
85°	74	72	71	56	52	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2869.6	2869.6	2869.6	2869.6	2869.6
2.5°	2883.7	2869.6	2850.8	2866.5	2863.3
5°	2858.6	2839.8	2838.2	2857.1	2842.9
7.5°	2827.3	2824.1	2805.3	2825.7	2817.8
10°	2786.5	2783.3	2777.0	2791.2	2780.2
12.5°	2737.8	2734.7	2737.8	2745.7	2737.8
15°	2686.1	2690.8	2682.9	2700.2	2684.5
17.5°	2617.0	2621.7	2637.4	2643.7	2642.1
20°	2560.5	2563.7	2582.5	2607.6	2580.9
22.5°	2486.8	2494.6	2504.1	2549.6	2543.3
25°	2411.5	2422.5	2458.6	2493.1	2466.4
27.5°	2333.0	2344.0	2387.9	2413.1	2409.9
30°	2248.3	2259.3	2314.2	2348.7	2333.0
32.5°	2160.5	2179.3	2238.9	2268.7	2238.9
35°	2074.2	2083.6	2141.6	2165.2	2151.0
37.5°	1959.6	1995.7	2053.8	2069.5	2044.3
40°	1873.3	1874.9	1958.1	1958.1	1956.5
42.5°	1761.9	1787.0	1842.0	1871.8	1856.1
45°	1666.2	1674.1	1744.7	1766.6	1761.9
47.5°	1561.1	1592.5	1644.3	1669.4	1656.8
50°	1457.6	1479.5	1532.9	1565.8	1553.3
52.5°	1361.9	1379.1	1434.0	1452.9	1440.3
55°	1245.7	1274.0	1319.5	1338.3	1327.3
57.5°	1145.3	1165.7	1222.2	1228.5	1222.2
60°	1040.2	1063.8	1109.3	1114.0	1101.4
62.5°	939.8	955.5	996.3	997.9	983.7
65°	833.1	851.9	880.2	877.0	862.9
67.5°	728.0	740.5	767.2	756.2	740.5
70°	621.3	632.3	654.3	638.6	624.4
72.5°	517.8	525.6	544.4	520.9	503.6
75°	415.8	418.9	433.0	403.2	378.1
77.5°	315.4	318.5	326.3	296.5	268.3
80°	224.4	224.4	227.5	196.1	177.3
82.5°	141.2	141.2	139.6	116.1	105.1
85°	73.7	72.2	70.6	56.5	51.8
87.5°	26.7	26.7	22.0	20.4	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)