

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: P487175

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2HI-20-120-EDD**

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: P487175
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-LD4-2HI-20-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

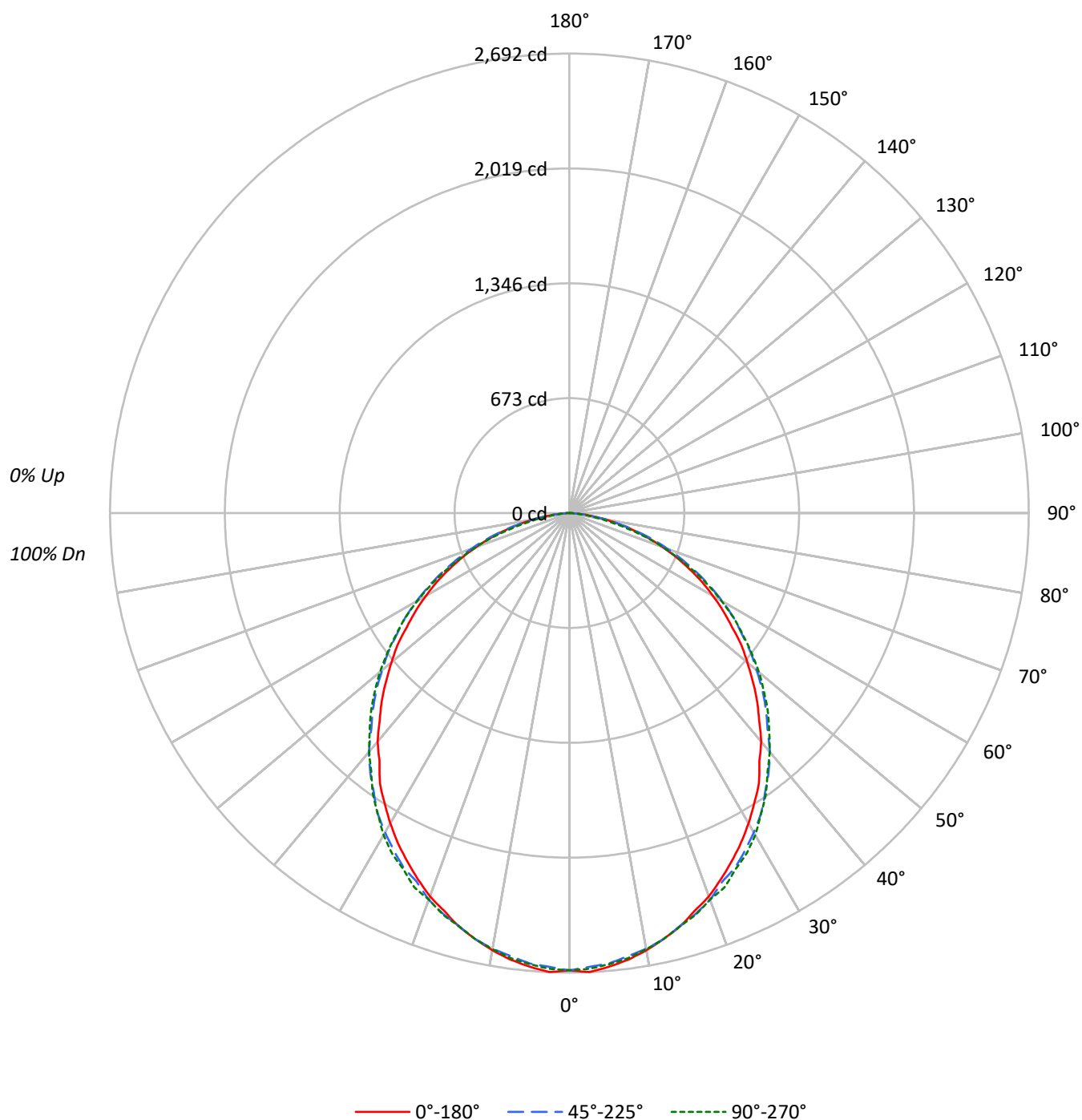
Lumens per Lamp: N/A
Luminaire Lumens: 6879.7 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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					0
RW	70	50	30	10	70	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
1	109	105	101	97	107	102	99	95		98	95	92		94	92	90		91	89	87
2	100	92	85	79	97	90	84	79		86	81	77		83	79	75		80	76	73
3	91	81	73	66	89	79	72	66		76	70	65		73	68	64		71	66	62
4	83	72	63	57	81	70	62	56		68	61	55		66	59	55		63	58	54
5	77	64	55	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		53	47	42		52	46	41
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	34		45	38	33		44	38	33
9	57	44	36	31	56	44	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	53	40	33	28		39	32	28		38	32	27		37	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3604	3604	3604
5°	3604	3578	3584
10°	3553	3541	3545
15°	3492	3488	3490
20°	3422	3451	3449
25°	3342	3407	3418
30°	3260	3356	3383
35°	3180	3283	3298
40°	3071	3210	3207
45°	2959	3099	3129
50°	2848	2995	3035
55°	2727	2889	2906
60°	2613	2786	2766
65°	2476	2615	2564
70°	2281	2402	2293
75°	2018	2101	1835
80°	1623	1645	1282
85°	1062	1017	746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.8	3.7
10°-20°	707.9	10.3
20°-30°	1053.9	15.3
30°-40°	1240.5	18.0
40°-50°	1243.8	18.1
50°-60°	1090.7	15.9
60°-70°	797.5	11.6
70°-80°	411.0	6.0
80°-90°	82.5	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°	2013.6	29.3
0°-40°	3254.1	47.3
0°-60°	5588.6	81.2
0°-90°	6879.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6879.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2678	2678	2678	2678	2678	
5°	2668	2651	2649	2667	2654	253
15°	2507	2512	2504	2520	2506	706
25°	2251	2261	2295	2327	2302	1037
35°	1936	1945	1999	2021	2008	1206
45°	1555	1562	1628	1649	1644	1199
55°	1163	1189	1232	1249	1239	1044
65°	778	795	822	819	805	769
75°	388	391	404	376	353	411
85°	69	67	66	53	48	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2678.4	2678.4	2678.4	2678.4	2678.4
2.5°	2691.6	2678.4	2660.8	2675.5	2672.6
5°	2668.2	2650.6	2649.1	2666.7	2653.5
7.5°	2638.9	2636.0	2618.4	2637.4	2630.1
10°	2600.8	2597.9	2592.0	2605.2	2594.9
12.5°	2555.4	2552.5	2555.4	2562.7	2555.4
15°	2507.1	2511.5	2504.2	2520.3	2505.6
17.5°	2442.7	2447.0	2461.7	2467.5	2466.1
20°	2389.9	2392.9	2410.4	2433.9	2409.0
22.5°	2321.1	2328.4	2337.2	2379.7	2373.8
25°	2250.8	2261.1	2294.7	2327.0	2302.1
27.5°	2177.6	2187.8	2228.8	2252.3	2249.3
30°	2098.5	2108.8	2160.0	2192.2	2177.6
32.5°	2016.5	2034.1	2089.7	2117.5	2089.7
35°	1936.0	1944.7	1998.9	2020.9	2007.7
37.5°	1829.1	1862.7	1916.9	1931.6	1908.1
40°	1748.5	1750.0	1827.6	1827.6	1826.1
42.5°	1644.5	1668.0	1719.2	1747.1	1732.4
45°	1555.2	1562.5	1628.4	1648.9	1644.5
47.5°	1457.1	1486.4	1534.7	1558.1	1546.4
50°	1360.4	1380.9	1430.7	1461.5	1449.8
52.5°	1271.1	1287.2	1338.5	1356.1	1344.3
55°	1162.7	1189.1	1231.6	1249.1	1238.9
57.5°	1069.0	1088.1	1140.8	1146.6	1140.8
60°	970.9	992.9	1035.3	1039.7	1028.0
62.5°	877.2	891.8	929.9	931.4	918.2
65°	777.6	795.2	821.5	818.6	805.4
67.5°	679.5	691.2	716.1	705.8	691.2
70°	579.9	590.2	610.7	596.0	582.8
72.5°	483.3	490.6	508.2	486.2	470.1
75°	388.1	391.0	404.2	376.4	352.9
77.5°	294.3	297.3	304.6	276.8	250.4
80°	209.4	209.4	212.3	183.1	165.5
82.5°	131.8	131.8	130.3	108.4	98.1
85°	68.8	67.4	65.9	52.7	48.3
87.5°	24.9	24.9	20.5	19.0	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)