

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: P487228

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3LO-35-120-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: P487228
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-35-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

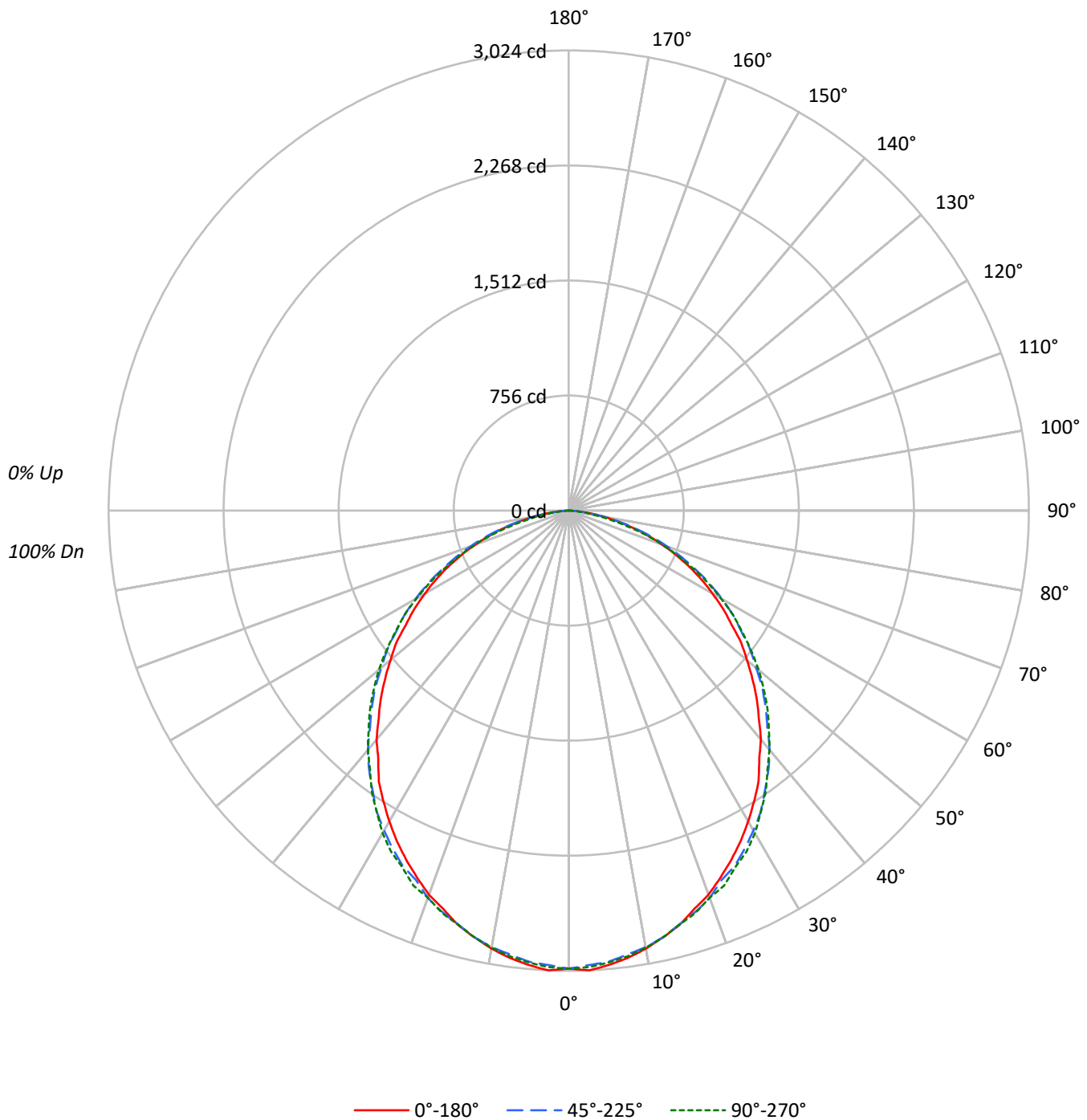
Lumens per Lamp: N/A
Luminaire Lumens: 7730.7 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					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°	4050	4050	4050
5°	4049	4021	4027
10°	3993	3979	3984
15°	3924	3920	3922
20°	3845	3878	3876
25°	3755	3828	3840
30°	3664	3771	3802
35°	3573	3689	3706
40°	3451	3607	3604
45°	3325	3482	3516
50°	3200	3365	3410
55°	3065	3246	3266
60°	2936	3131	3109
65°	2782	2939	2882
70°	2563	2699	2576
75°	2267	2361	2062
80°	1823	1849	1440
85°	1193	1144	838



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.9	3.7
10°-20°	795.5	10.3
20°-30°	1184.3	15.3
30°-40°	1394.0	18.0
40°-50°	1397.7	18.1
50°-60°	1225.6	15.9
60°-70°	896.2	11.6
70°-80°	461.9	6.0
80°-90°	92.7	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°	2262.7	29.3
0°-40°	3656.7	47.3
0°-60°	6280.0	81.2
0°-90°	7730.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7730.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3010	3010	3010	3010	3010	
5°	2998	2978	2977	2997	2982	284
15°	2817	2822	2814	2832	2816	793
25°	2529	2541	2579	2615	2587	1165
35°	2175	2185	2246	2271	2256	1355
45°	1748	1756	1830	1853	1848	1347
55°	1307	1336	1384	1404	1392	1173
65°	874	894	923	920	905	864
75°	436	439	454	423	397	462
85°	77	76	74	59	54	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3009.7	3009.7	3009.7	3009.7	3009.7
2.5°	3024.5	3009.7	2990.0	3006.4	3003.2
5°	2998.2	2978.5	2976.8	2996.6	2981.8
7.5°	2965.3	2962.0	2942.3	2963.7	2955.4
10°	2922.5	2919.2	2912.6	2927.5	2915.9
12.5°	2871.5	2868.2	2871.5	2879.7	2871.5
15°	2817.2	2822.1	2813.9	2832.0	2815.6
17.5°	2744.8	2749.7	2766.2	2772.8	2771.1
20°	2685.6	2688.9	2708.6	2734.9	2707.0
22.5°	2608.2	2616.4	2626.3	2674.0	2667.5
25°	2529.2	2540.7	2578.6	2614.8	2586.8
27.5°	2447.0	2458.5	2504.5	2530.9	2527.6
30°	2358.1	2369.6	2427.2	2463.4	2447.0
32.5°	2265.9	2285.7	2348.2	2379.5	2348.2
35°	2175.4	2185.3	2246.2	2270.9	2256.1
37.5°	2055.3	2093.2	2154.0	2170.5	2144.2
40°	1964.8	1966.4	2053.7	2053.7	2052.0
42.5°	1848.0	1874.3	1931.9	1963.2	1946.7
45°	1747.6	1755.8	1829.9	1852.9	1848.0
47.5°	1637.3	1670.2	1724.6	1750.9	1737.7
50°	1528.7	1551.8	1607.7	1642.3	1629.1
52.5°	1428.3	1446.4	1504.0	1523.8	1510.6
55°	1306.6	1336.2	1383.9	1403.7	1392.1
57.5°	1201.3	1222.7	1281.9	1288.5	1281.9
60°	1091.0	1115.7	1163.4	1168.3	1155.2
62.5°	985.7	1002.1	1044.9	1046.6	1031.8
65°	873.8	893.5	923.2	919.9	905.1
67.5°	763.5	776.7	804.7	793.2	776.7
70°	651.6	663.2	686.2	669.7	654.9
72.5°	543.0	551.3	571.0	546.3	528.2
75°	436.1	439.4	454.2	422.9	396.6
77.5°	330.8	334.0	342.3	311.0	281.4
80°	235.3	235.3	238.6	205.7	185.9
82.5°	148.1	148.1	146.5	121.8	110.3
85°	77.3	75.7	74.1	59.2	54.3
87.5°	28.0	28.0	23.0	21.4	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)