

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: P485151

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2STD-30-120-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: P485151
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-12-4-INS-A125-LD4-2STD-30-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

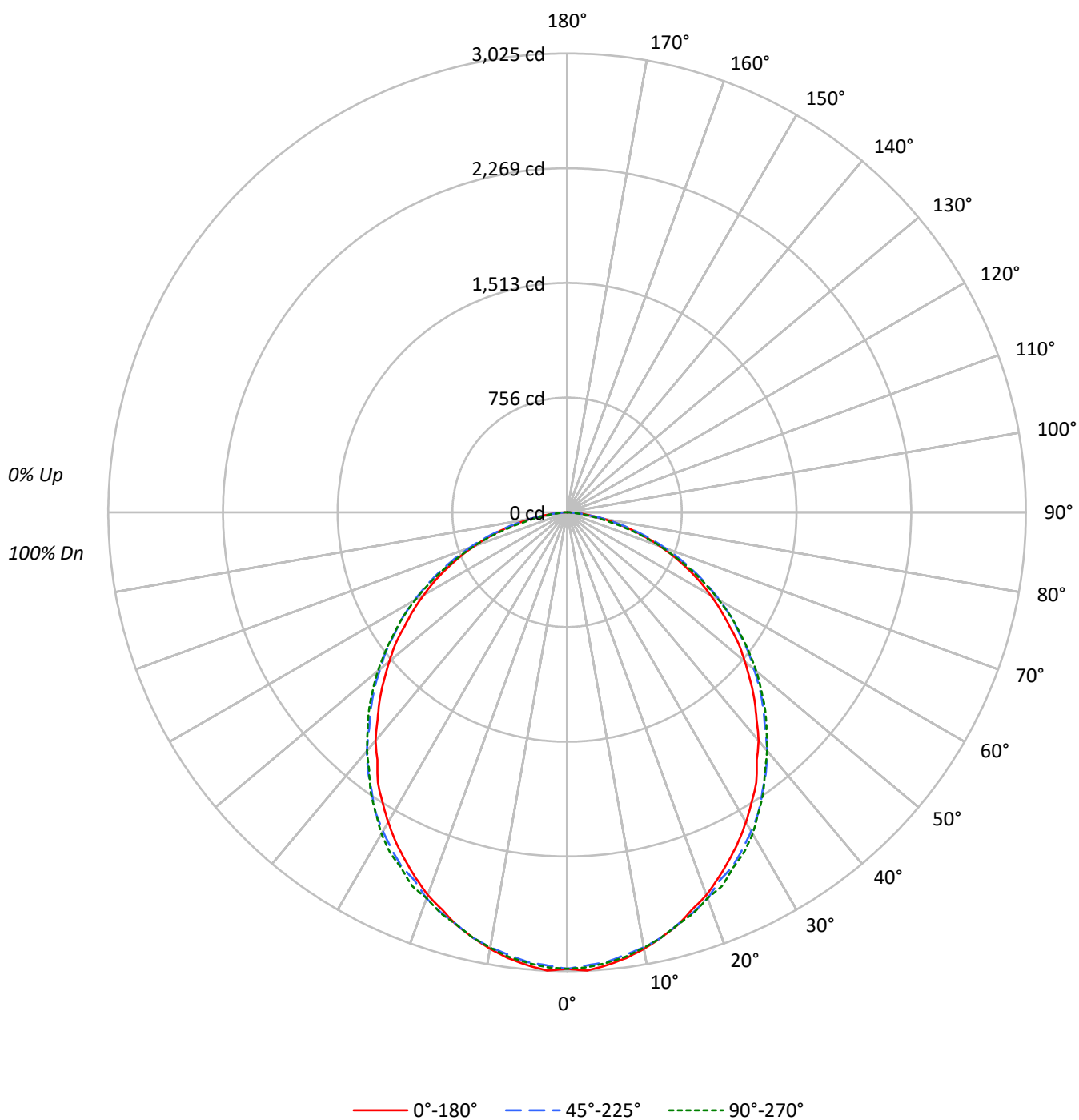
Lumens per Lamp: N/A
Luminaire Lumens: 7730.8 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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					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°	8099	8099	8099
5°	8099	8041	8055
10°	7986	7959	7968
15°	7848	7839	7844
20°	7691	7757	7752
25°	7510	7656	7681
30°	7327	7542	7604
35°	7147	7379	7411
40°	6902	7214	7208
45°	6651	6964	7033
50°	6400	6731	6820
55°	6130	6493	6532
60°	5872	6261	6217
65°	5564	5878	5763
70°	5128	5399	5153
75°	4534	4722	4124
80°	3646	3698	2882
85°	2387	2288	1677



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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°	7730.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7730.8	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°	2176	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°	3009.8	3009.8	3009.8	3009.8	3009.8
2.5°	3024.6	3009.8	2990.0	3006.5	3003.2
5°	2998.3	2978.5	2976.9	2996.6	2981.8
7.5°	2965.3	2962.1	2942.3	2963.7	2955.5
10°	2922.6	2919.3	2912.7	2927.5	2916.0
12.5°	2871.5	2868.3	2871.5	2879.8	2871.5
15°	2817.2	2822.2	2813.9	2832.1	2815.6
17.5°	2744.8	2749.8	2766.2	2772.8	2771.2
20°	2685.6	2688.9	2708.6	2735.0	2707.0
22.5°	2608.3	2616.5	2626.4	2674.1	2667.5
25°	2529.3	2540.8	2578.6	2614.8	2586.9
27.5°	2447.0	2458.5	2504.6	2530.9	2527.6
30°	2358.1	2369.6	2427.2	2463.4	2447.0
32.5°	2266.0	2285.7	2348.2	2379.5	2348.2
35°	2175.5	2185.3	2246.2	2270.9	2256.1
37.5°	2055.3	2093.2	2154.1	2170.5	2144.2
40°	1964.8	1966.5	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°	1637.4	1670.3	1724.6	1750.9	1737.7
50°	1528.7	1551.8	1607.7	1642.3	1629.1
52.5°	1428.4	1446.5	1504.1	1523.8	1510.6
55°	1306.6	1336.2	1383.9	1403.7	1392.2
57.5°	1201.3	1222.7	1281.9	1288.5	1281.9
60°	1091.0	1115.7	1163.4	1168.4	1155.2
62.5°	985.7	1002.2	1044.9	1046.6	1031.8
65°	873.8	893.6	923.2	919.9	905.1
67.5°	763.6	776.7	804.7	793.2	776.7
70°	651.7	663.2	686.2	669.8	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	334.1	342.3	311.0	281.4
80°	235.3	235.3	238.6	205.7	186.0
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)