

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: P487203

Luminaire Tested: **ORLG-24-4-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: P487203
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-30-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

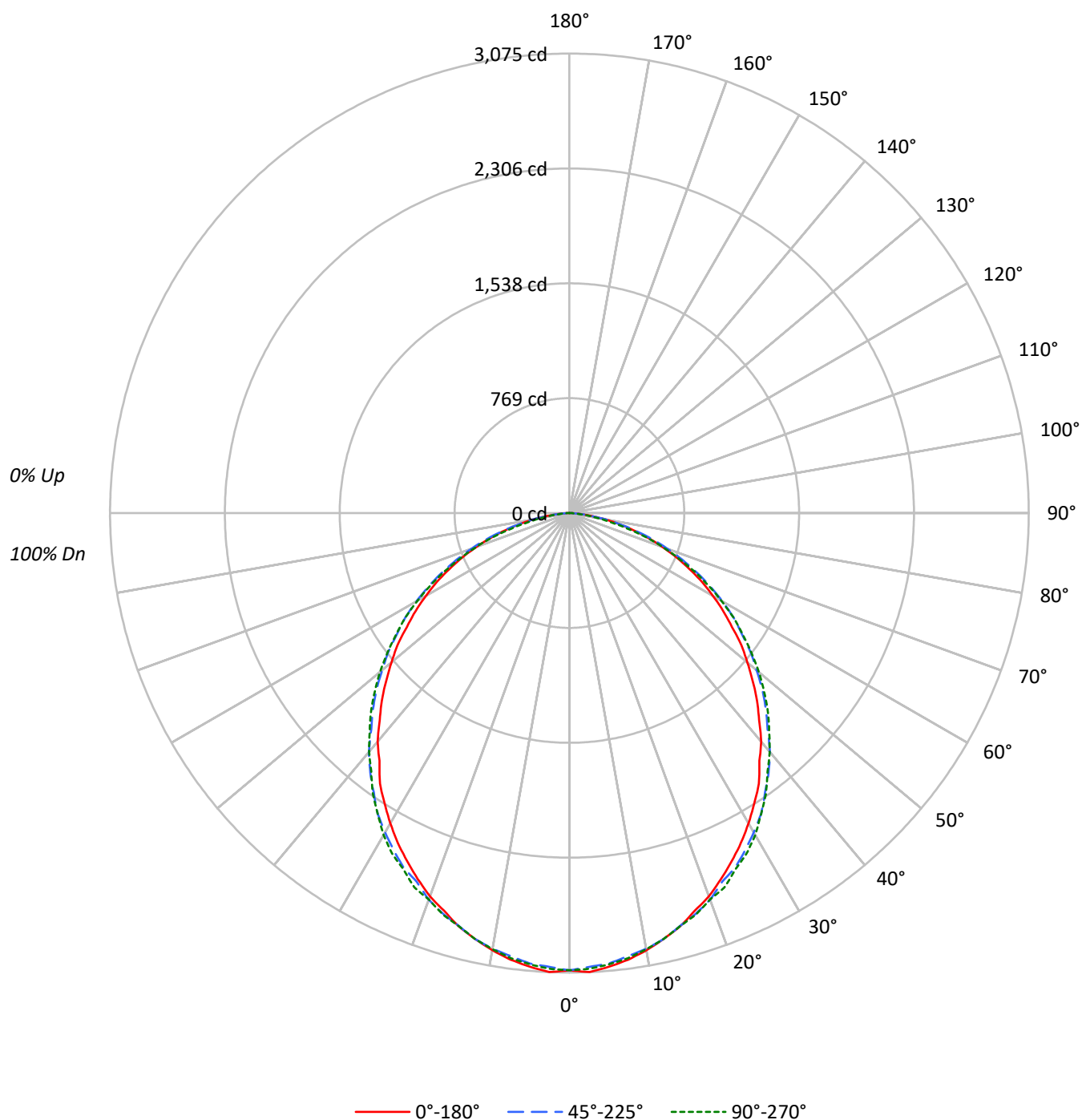
Lumens per Lamp: N/A
Luminaire Lumens: 7858.7 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	4117	4117	4117
5°	4117	4087	4094
10°	4059	4045	4050
15°	3989	3985	3987
20°	3909	3942	3940
25°	3817	3892	3904
30°	3724	3833	3865
35°	3632	3751	3767
40°	3508	3667	3664
45°	3380	3540	3575
50°	3253	3421	3467
55°	3116	3300	3320
60°	2985	3183	3160
65°	2828	2988	2929
70°	2606	2744	2619
75°	2305	2400	2096
80°	1853	1880	1464
85°	1213	1162	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.6	3.7
10°-20°	808.6	10.3
20°-30°	1203.9	15.3
30°-40°	1417.1	18.0
40°-50°	1420.8	18.1
50°-60°	1245.9	15.9
60°-70°	911.0	11.6
70°-80°	469.5	6.0
80°-90°	94.2	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°	2300.1	29.3
0°-40°	3717.2	47.3
0°-60°	6383.9	81.2
0°-90°	7858.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7858.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3060	3060	3060	3060	3060	
5°	3048	3028	3026	3046	3031	288
15°	2864	2869	2860	2879	2862	806
25°	2571	2583	2621	2658	2630	1184
35°	2212	2222	2283	2308	2293	1377
45°	1776	1785	1860	1884	1879	1369
55°	1328	1358	1407	1427	1415	1192
65°	888	908	938	935	920	879
75°	443	447	462	430	403	470
85°	79	77	75	60	55	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3059.6	3059.6	3059.6	3059.6	3059.6
2.5°	3074.6	3059.6	3039.5	3056.2	3052.9
5°	3047.9	3027.8	3026.1	3046.2	3031.1
7.5°	3014.4	3011.1	2991.0	3012.7	3004.4
10°	2970.9	2967.6	2960.9	2975.9	2964.2
12.5°	2919.1	2915.7	2919.1	2927.4	2919.1
15°	2863.8	2868.9	2860.5	2878.9	2862.2
17.5°	2790.2	2795.3	2812.0	2818.7	2817.0
20°	2730.0	2733.4	2753.4	2780.2	2751.8
22.5°	2651.4	2659.8	2669.8	2718.3	2711.6
25°	2571.1	2582.8	2621.3	2658.1	2629.7
27.5°	2487.5	2499.2	2546.0	2572.8	2569.4
30°	2397.1	2408.8	2467.4	2504.2	2487.5
32.5°	2303.5	2323.5	2387.1	2418.9	2387.1
35°	2211.5	2221.5	2283.4	2308.5	2293.4
37.5°	2089.3	2127.8	2189.7	2206.4	2179.7
40°	1997.3	1999.0	2087.7	2087.7	2086.0
42.5°	1878.6	1905.3	1963.9	1995.7	1978.9
45°	1776.5	1784.9	1860.2	1883.6	1878.6
47.5°	1664.4	1697.9	1753.1	1779.9	1766.5
50°	1554.0	1577.5	1634.3	1669.5	1656.1
52.5°	1452.0	1470.4	1528.9	1549.0	1535.6
55°	1328.2	1358.3	1406.8	1426.9	1415.2
57.5°	1221.2	1242.9	1303.1	1309.8	1303.1
60°	1109.1	1134.2	1182.7	1187.7	1174.3
62.5°	1002.0	1018.7	1062.2	1063.9	1048.9
65°	888.3	908.3	938.4	935.1	920.0
67.5°	776.2	789.6	818.0	806.3	789.6
70°	662.4	674.1	697.6	680.8	665.8
72.5°	552.0	560.4	580.5	555.4	537.0
75°	443.3	446.6	461.7	429.9	403.1
77.5°	336.2	339.6	347.9	316.2	286.1
80°	239.2	239.2	242.6	209.1	189.0
82.5°	150.6	150.6	148.9	123.8	112.1
85°	78.6	76.9	75.3	60.2	55.2
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)