

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: P485955

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4HI-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: P485955
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-24-2-INS-A125-LD4-4HI-30-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

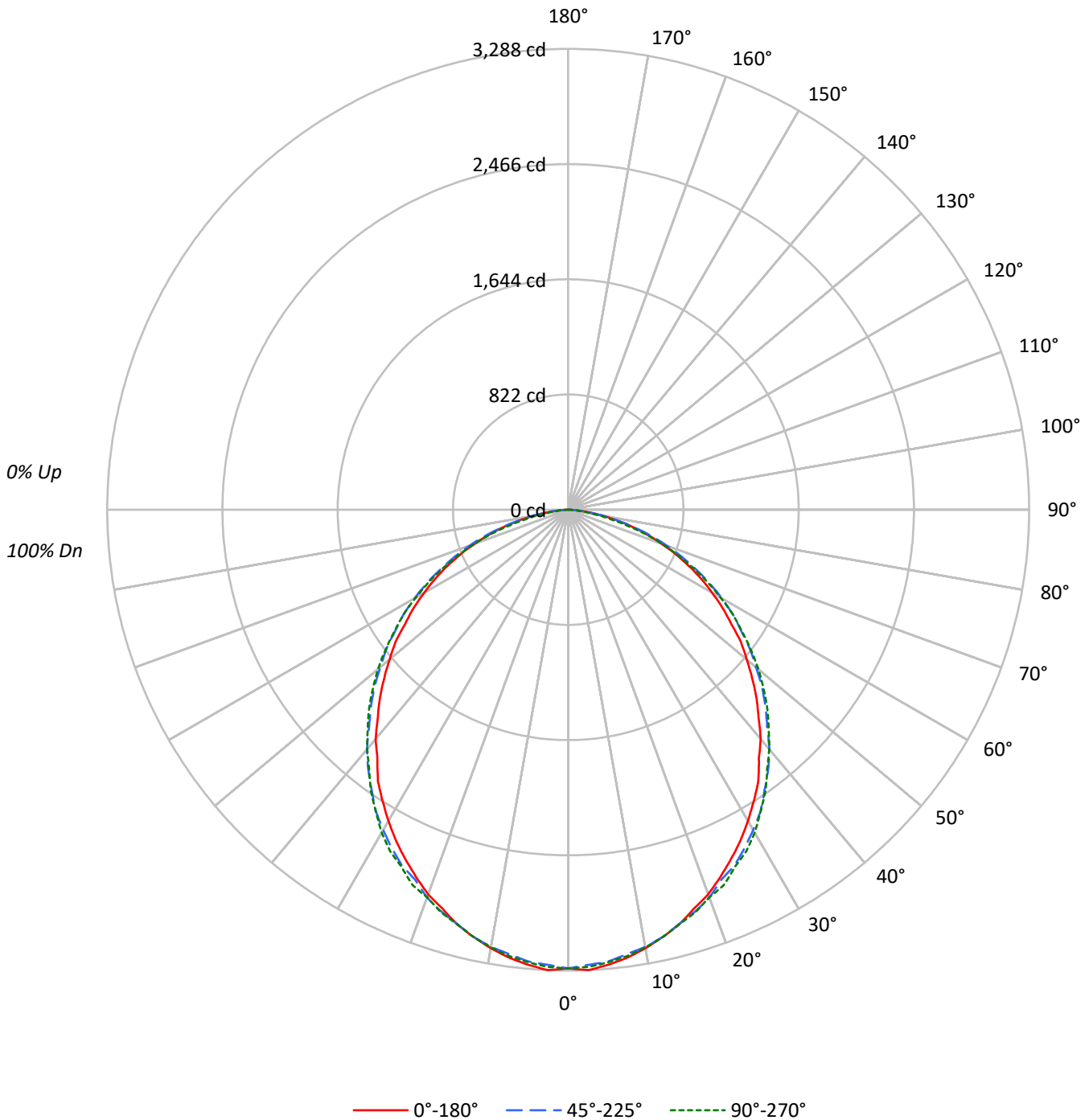
Lumens per Lamp: N/A
Luminaire Lumens: 8405.0 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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				10	0
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°	8806	8806	8806
5°	8805	8743	8757
10°	8682	8653	8663
15°	8533	8523	8528
20°	8361	8433	8428
25°	8165	8324	8351
30°	7966	8200	8267
35°	7770	8022	8058
40°	7504	7843	7837
45°	7231	7571	7646
50°	6958	7317	7415
55°	6664	7059	7101
60°	6384	6808	6759
65°	6049	6391	6266
70°	5574	5870	5603
75°	4929	5134	4483
80°	3964	4020	3133
85°	2597	2485	1822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.6	3.7
10°-20°	864.9	10.3
20°-30°	1287.6	15.3
30°-40°	1515.6	18.0
40°-50°	1519.6	18.1
50°-60°	1332.5	15.9
60°-70°	974.4	11.6
70°-80°	502.2	6.0
80°-90°	100.7	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°	2460.0	29.3
0°-40°	3975.6	47.3
0°-60°	6827.7	81.2
0°-90°	8405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8405.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3272	3272	3272	3272	3272	
5°	3260	3238	3236	3258	3242	309
15°	3063	3068	3059	3079	3061	862
25°	2750	2762	2804	2843	2812	1267
35°	2365	2376	2442	2469	2453	1473
45°	1900	1909	1990	2014	2009	1464
55°	1420	1453	1505	1526	1514	1275
65°	950	972	1004	1000	984	940
75°	474	478	494	460	431	502
85°	84	82	80	64	59	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3272.3	3272.3	3272.3	3272.3	3272.3
2.5°	3288.4	3272.3	3250.8	3268.7	3265.1
5°	3259.7	3238.3	3236.5	3257.9	3241.8
7.5°	3223.9	3220.4	3198.9	3222.2	3213.2
10°	3177.4	3173.9	3166.7	3182.8	3170.3
12.5°	3122.0	3118.4	3122.0	3130.9	3122.0
15°	3062.9	3068.3	3059.4	3079.0	3061.1
17.5°	2984.2	2989.6	3007.5	3014.6	3012.8
20°	2919.8	2923.4	2944.9	2973.5	2943.1
22.5°	2835.7	2844.7	2855.4	2907.3	2900.1
25°	2749.8	2762.4	2803.5	2842.9	2812.5
27.5°	2660.4	2672.9	2723.0	2751.6	2748.1
30°	2563.8	2576.3	2638.9	2678.3	2660.4
32.5°	2463.6	2485.1	2553.0	2587.0	2553.0
35°	2365.2	2375.9	2442.1	2469.0	2452.8
37.5°	2234.6	2275.7	2341.9	2359.8	2331.2
40°	2136.2	2138.0	2232.8	2232.8	2231.0
42.5°	2009.2	2037.8	2100.4	2134.4	2116.5
45°	1900.0	1909.0	1989.5	2014.5	2009.2
47.5°	1780.1	1815.9	1875.0	1903.6	1889.3
50°	1662.1	1687.1	1747.9	1785.5	1771.2
52.5°	1552.9	1572.6	1635.2	1656.7	1642.4
55°	1420.5	1452.7	1504.6	1526.1	1513.6
57.5°	1306.0	1329.3	1393.7	1400.9	1393.7
60°	1186.2	1213.0	1264.9	1270.3	1255.9
62.5°	1071.7	1089.6	1136.1	1137.9	1121.8
65°	950.0	971.5	1003.7	1000.1	984.0
67.5°	830.1	844.5	874.9	862.3	844.5
70°	708.5	721.0	746.1	728.2	712.1
72.5°	590.4	599.3	620.8	594.0	574.3
75°	474.1	477.7	493.8	459.8	431.2
77.5°	359.6	363.2	372.1	338.1	305.9
80°	255.8	255.8	259.4	223.6	202.2
82.5°	161.0	161.0	159.2	132.4	119.9
85°	84.1	82.3	80.5	64.4	59.0
87.5°	30.4	30.4	25.0	23.3	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)