

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: P486045

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6LO-50-120-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: P486045
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-LD4-6LO-50-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

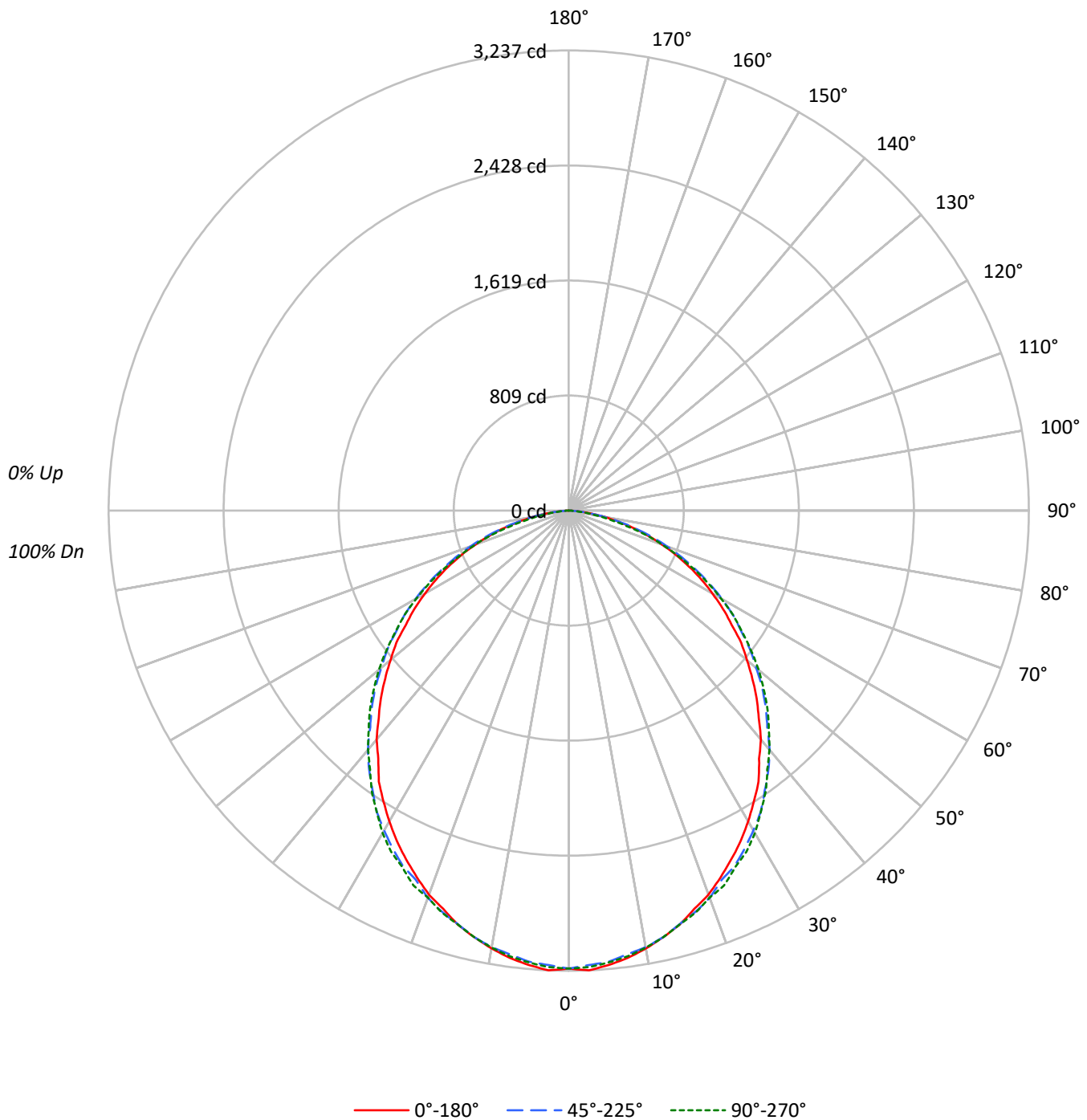
Lumens per Lamp: N/A
Luminaire Lumens: 8274.5 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	8669	8669	8669
5°	8669	8607	8621
10°	8548	8519	8528
15°	8401	8391	8396
20°	8232	8302	8297
25°	8038	8195	8221
30°	7843	8072	8138
35°	7649	7898	7933
40°	7387	7722	7716
45°	7118	7454	7528
50°	6850	7204	7300
55°	6561	6950	6991
60°	6285	6702	6654
65°	5955	6292	6168
70°	5488	5779	5515
75°	4852	5054	4414
80°	3904	3958	3084
85°	2556	2448	1794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.8	3.7
10°-20°	851.4	10.3
20°-30°	1267.6	15.3
30°-40°	1492.1	18.0
40°-50°	1496.0	18.1
50°-60°	1311.8	15.9
60°-70°	959.3	11.6
70°-80°	494.4	6.0
80°-90°	99.2	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°	2421.8	29.3
0°-40°	3913.9	47.3
0°-60°	6721.7	81.2
0°-90°	8274.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8274.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3221	3221	3221	3221	3221	
5°	3209	3188	3186	3207	3192	304
15°	3015	3021	3012	3031	3014	849
25°	2707	2720	2760	2799	2769	1247
35°	2328	2339	2404	2431	2415	1450
45°	1870	1879	1959	1983	1978	1442
55°	1398	1430	1481	1502	1490	1255
65°	935	956	988	985	969	925
75°	467	470	486	453	424	495
85°	83	81	79	63	58	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3221.4	3221.4	3221.4	3221.4	3221.4
2.5°	3237.3	3221.4	3200.3	3217.9	3214.4
5°	3209.1	3188.0	3186.2	3207.4	3191.5
7.5°	3173.9	3170.4	3149.2	3172.1	3163.3
10°	3128.1	3124.6	3117.5	3133.4	3121.1
12.5°	3073.5	3070.0	3073.5	3082.3	3073.5
15°	3015.4	3020.7	3011.9	3031.2	3013.6
17.5°	2937.9	2943.2	2960.8	2967.8	2966.1
20°	2874.5	2878.0	2899.1	2927.3	2897.4
22.5°	2791.7	2800.5	2811.1	2862.1	2855.1
25°	2707.1	2719.5	2760.0	2798.7	2768.8
27.5°	2619.1	2631.4	2680.7	2708.9	2705.4
30°	2524.0	2536.3	2597.9	2636.7	2619.1
32.5°	2425.3	2446.5	2513.4	2546.9	2513.4
35°	2328.5	2339.0	2404.2	2430.6	2414.8
37.5°	2199.9	2240.4	2305.6	2323.2	2295.0
40°	2103.0	2104.8	2198.1	2198.1	2196.4
42.5°	1978.0	2006.1	2067.8	2101.3	2083.6
45°	1870.5	1879.3	1958.6	1983.2	1978.0
47.5°	1752.5	1787.7	1845.9	1874.0	1860.0
50°	1636.3	1660.9	1720.8	1757.8	1743.7
52.5°	1528.8	1548.2	1609.8	1631.0	1616.9
55°	1398.5	1430.2	1481.3	1502.4	1490.1
57.5°	1285.8	1308.7	1372.1	1379.1	1372.1
60°	1167.8	1194.2	1245.3	1250.5	1236.4
62.5°	1055.0	1072.6	1118.4	1120.2	1104.3
65°	935.3	956.4	988.1	984.6	968.7
67.5°	817.3	831.3	861.3	849.0	831.3
70°	697.5	709.8	734.5	716.9	701.0
72.5°	581.2	590.0	611.2	584.8	565.4
75°	466.7	470.3	486.1	452.7	424.5
77.5°	354.0	357.5	366.4	332.9	301.2
80°	251.9	251.9	255.4	220.2	199.0
82.5°	158.5	158.5	156.8	130.3	118.0
85°	82.8	81.0	79.3	63.4	58.1
87.5°	29.9	29.9	24.7	22.9	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)