

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: P486043

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6LO-40-120-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: P486043
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-40-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

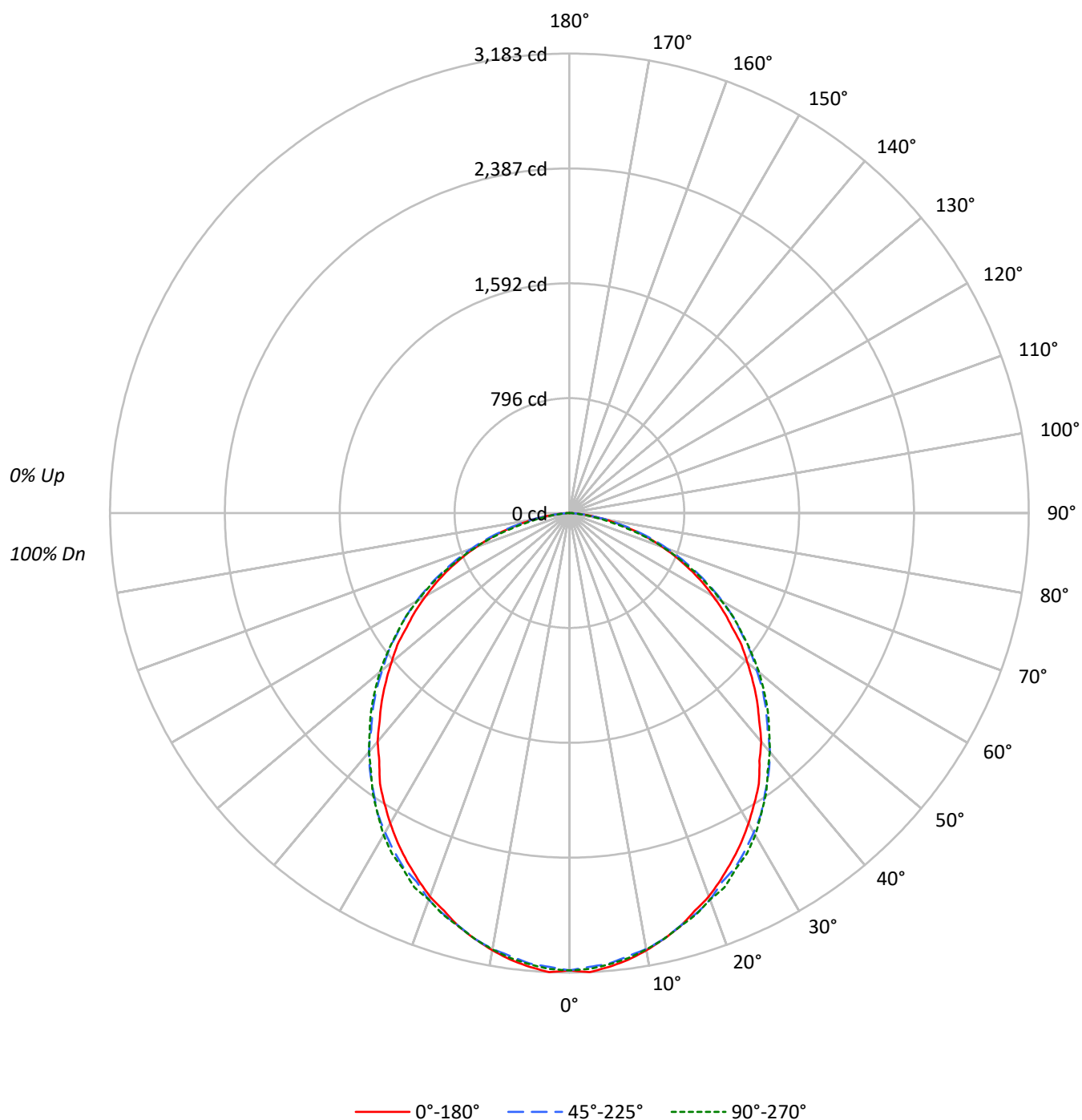
Lumens per Lamp: N/A
Luminaire Lumens: 8136.5 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	8524	8524	8524
5°	8524	8463	8477
10°	8405	8376	8386
15°	8260	8251	8256
20°	8094	8164	8159
25°	7904	8058	8084
30°	7712	7938	8002
35°	7522	7766	7800
40°	7264	7593	7587
45°	7000	7329	7402
50°	6736	7084	7178
55°	6452	6834	6874
60°	6180	6590	6543
65°	5856	6187	6066
70°	5396	5682	5423
75°	4772	4970	4340
80°	3839	3891	3033
85°	2513	2405	1766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.7	3.7
10°-20°	837.2	10.3
20°-30°	1246.5	15.3
30°-40°	1467.2	18.0
40°-50°	1471.0	18.1
50°-60°	1290.0	15.9
60°-70°	943.3	11.6
70°-80°	486.1	6.0
80°-90°	97.5	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°	2381.4	29.3
0°-40°	3848.6	47.3
0°-60°	6609.6	81.2
0°-90°	8136.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8136.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3168	3168	3168	3168	3168	
5°	3156	3135	3133	3154	3138	299
15°	2965	2970	2962	2981	2963	834
25°	2662	2674	2714	2752	2723	1226
35°	2290	2300	2364	2390	2374	1426
45°	1839	1848	1926	1950	1945	1417
55°	1375	1406	1457	1477	1465	1234
65°	920	940	972	968	953	910
75°	459	462	478	445	417	486
85°	81	80	78	62	57	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3167.7	3167.7	3167.7	3167.7	3167.7
2.5°	3183.3	3167.7	3146.9	3164.3	3160.8
5°	3155.6	3134.8	3133.1	3153.9	3138.3
7.5°	3121.0	3117.5	3096.7	3119.2	3110.6
10°	3075.9	3072.5	3065.5	3081.1	3069.0
12.5°	3022.2	3018.8	3022.2	3030.9	3022.2
15°	2965.1	2970.3	2961.6	2980.7	2963.4
17.5°	2888.9	2894.1	2911.4	2918.3	2916.6
20°	2826.5	2830.0	2850.8	2878.5	2849.0
22.5°	2745.1	2753.8	2764.2	2814.4	2807.5
25°	2662.0	2674.1	2714.0	2752.1	2722.6
27.5°	2575.4	2587.5	2636.0	2663.7	2660.3
30°	2481.9	2494.0	2554.6	2592.7	2575.4
32.5°	2384.9	2405.7	2471.5	2504.4	2471.5
35°	2289.6	2300.0	2364.1	2390.1	2374.5
37.5°	2163.2	2203.0	2267.1	2284.4	2256.7
40°	2067.9	2069.7	2161.5	2161.5	2159.7
42.5°	1945.0	1972.7	2033.3	2066.2	2048.9
45°	1839.3	1848.0	1925.9	1950.2	1945.0
47.5°	1723.3	1757.9	1815.1	1842.8	1828.9
50°	1609.0	1633.2	1692.1	1728.5	1714.6
52.5°	1503.3	1522.4	1583.0	1603.8	1589.9
55°	1375.2	1406.3	1456.6	1477.3	1465.2
57.5°	1264.3	1286.8	1349.2	1356.1	1349.2
60°	1148.3	1174.3	1224.5	1229.7	1215.8
62.5°	1037.4	1054.8	1099.8	1101.5	1085.9
65°	919.7	940.4	971.6	968.2	952.6
67.5°	803.6	817.5	846.9	834.8	817.5
70°	685.8	698.0	722.2	704.9	689.3
72.5°	571.5	580.2	601.0	575.0	556.0
75°	459.0	462.4	478.0	445.1	417.4
77.5°	348.1	351.6	360.2	327.3	296.2
80°	247.7	247.7	251.1	216.5	195.7
82.5°	155.9	155.9	154.1	128.2	116.0
85°	81.4	79.7	77.9	62.3	57.2
87.5°	29.4	29.4	24.2	22.5	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)