

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: P486041

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6LO-35-120-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: P486041
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-35-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

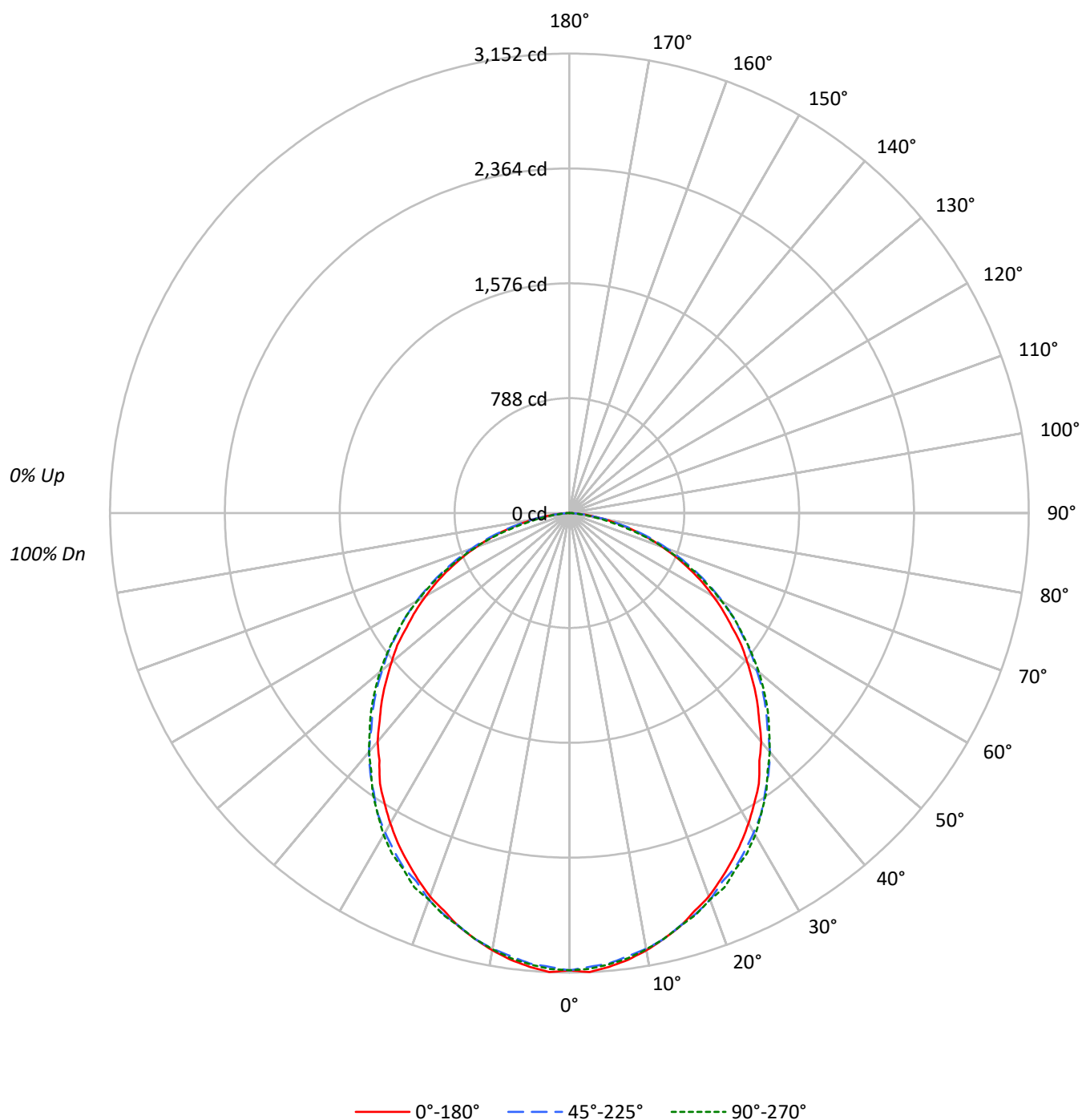
Lumens per Lamp: N/A
Luminaire Lumens: 8055.9 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	8440	8440	8440
5°	8440	8379	8393
10°	8322	8294	8303
15°	8179	8169	8174
20°	8014	8083	8078
25°	7826	7978	8004
30°	7636	7859	7923
35°	7447	7689	7723
40°	7193	7518	7511
45°	6930	7257	7328
50°	6669	7014	7107
55°	6388	6766	6806
60°	6119	6525	6479
65°	5798	6125	6005
70°	5343	5626	5370
75°	4724	4921	4297
80°	3800	3852	3003
85°	2489	2384	1748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.8	3.7
10°-20°	828.9	10.3
20°-30°	1234.1	15.3
30°-40°	1452.6	18.0
40°-50°	1456.4	18.1
50°-60°	1277.2	15.9
60°-70°	933.9	11.6
70°-80°	481.3	6.0
80°-90°	96.6	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°	2357.8	29.3
0°-40°	3810.5	47.3
0°-60°	6544.1	81.2
0°-90°	8055.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8055.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3136	3136	3136	3136	3136	
5°	3124	3104	3102	3123	3107	296
15°	2936	2941	2932	2951	2934	826
25°	2636	2648	2687	2725	2696	1214
35°	2267	2277	2341	2366	2351	1412
45°	1821	1830	1907	1931	1926	1403
55°	1362	1392	1442	1463	1451	1222
65°	911	931	962	959	943	901
75°	454	458	473	441	413	482
85°	81	79	77	62	57	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3136.3	3136.3	3136.3	3136.3	3136.3
2.5°	3151.8	3136.3	3115.8	3132.9	3129.5
5°	3124.3	3103.8	3102.0	3122.6	3107.2
7.5°	3090.0	3086.6	3066.0	3088.3	3079.8
10°	3045.5	3042.0	3035.2	3050.6	3038.6
12.5°	2992.3	2988.9	2992.3	3000.9	2992.3
15°	2935.7	2940.9	2932.3	2951.1	2934.0
17.5°	2860.3	2865.4	2882.6	2889.4	2887.7
20°	2798.5	2802.0	2822.5	2850.0	2820.8
22.5°	2717.9	2726.5	2736.8	2786.5	2779.7
25°	2635.6	2647.6	2687.1	2724.8	2695.6
27.5°	2549.9	2561.9	2609.9	2637.3	2633.9
30°	2457.3	2469.3	2529.3	2567.0	2549.9
32.5°	2361.3	2381.8	2447.0	2479.6	2447.0
35°	2266.9	2277.2	2340.7	2366.4	2351.0
37.5°	2141.8	2181.2	2244.7	2261.8	2234.4
40°	2047.5	2049.2	2140.1	2140.1	2138.3
42.5°	1925.7	1953.1	2013.2	2045.7	2028.6
45°	1821.1	1829.7	1906.8	1930.8	1925.7
47.5°	1706.2	1740.5	1797.1	1824.5	1810.8
50°	1593.0	1617.0	1675.3	1711.4	1697.6
52.5°	1488.4	1507.3	1567.3	1587.9	1574.2
55°	1361.5	1392.4	1442.1	1462.7	1450.7
57.5°	1251.8	1274.1	1335.8	1342.7	1335.8
60°	1136.9	1162.6	1212.4	1217.5	1203.8
62.5°	1027.2	1044.3	1088.9	1090.6	1075.2
65°	910.6	931.1	962.0	958.6	943.1
67.5°	795.7	809.4	838.5	826.5	809.4
70°	679.1	691.1	715.1	697.9	682.5
72.5°	565.9	574.5	595.0	569.3	550.4
75°	454.4	457.8	473.3	440.7	413.3
77.5°	344.7	348.1	356.7	324.1	293.2
80°	245.2	245.2	248.6	214.3	193.8
82.5°	154.3	154.3	152.6	126.9	114.9
85°	80.6	78.9	77.2	61.7	56.6
87.5°	29.2	29.2	24.0	22.3	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)