

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: P486016

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5STD-35-120-EDD-90**

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: P486016
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-LD4-5STD-35-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

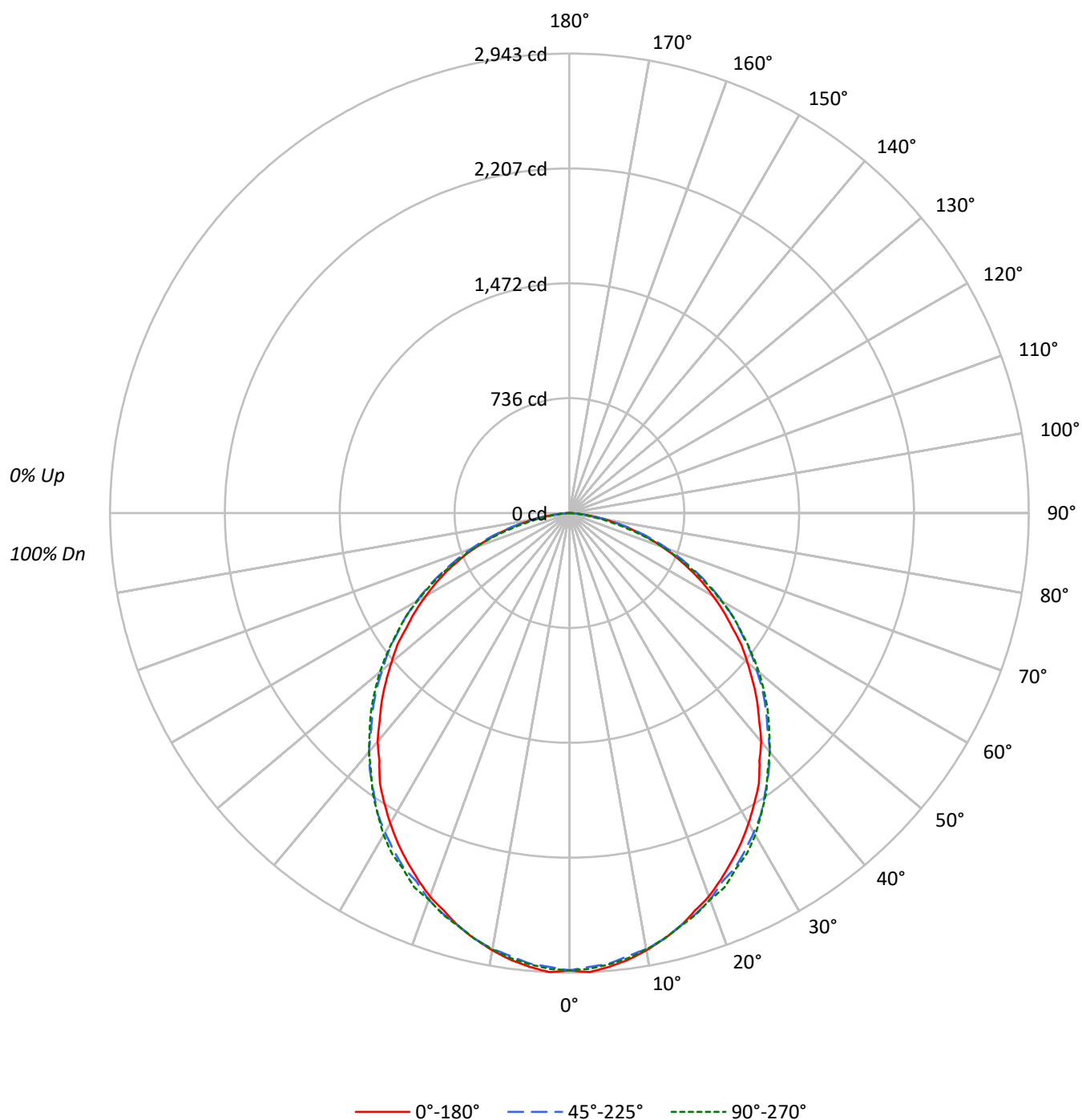
Lumens per Lamp: N/A
Luminaire Lumens: 7522.5 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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°	7881	7881	7881
5°	7881	7825	7838
10°	7771	7744	7753
15°	7637	7628	7633
20°	7483	7548	7543
25°	7307	7450	7474
30°	7130	7339	7399
35°	6954	7180	7212
40°	6716	7020	7014
45°	6471	6776	6843
50°	6228	6549	6636
55°	5965	6318	6356
60°	5713	6093	6050
65°	5414	5720	5608
70°	4989	5253	5014
75°	4412	4594	4012
80°	3549	3598	2803
85°	2325	2226	1630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.3	3.7
10°-20°	774.0	10.3
20°-30°	1152.4	15.3
30°-40°	1356.5	18.0
40°-50°	1360.0	18.1
50°-60°	1192.6	15.9
60°-70°	872.1	11.6
70°-80°	449.4	6.0
80°-90°	90.2	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°	2201.7	29.3
0°-40°	3558.2	47.3
0°-60°	6110.8	81.2
0°-90°	7522.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7522.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2929	2929	2929	2929	2929	
5°	2918	2898	2897	2916	2902	276
15°	2741	2746	2738	2756	2740	772
25°	2461	2472	2509	2544	2517	1134
35°	2117	2126	2186	2210	2195	1318
45°	1700	1708	1781	1803	1798	1311
55°	1271	1300	1347	1366	1355	1141
65°	850	870	898	895	881	841
75°	424	428	442	412	386	450
85°	75	74	72	58	53	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2928.7	2928.7	2928.7	2928.7	2928.7
2.5°	2943.1	2928.7	2909.5	2925.5	2922.3
5°	2917.5	2898.3	2896.7	2915.9	2901.5
7.5°	2885.4	2882.2	2863.0	2883.8	2875.8
10°	2843.8	2840.6	2834.2	2848.6	2837.4
12.5°	2794.2	2791.0	2794.2	2802.2	2794.2
15°	2741.3	2746.1	2738.1	2755.7	2739.7
17.5°	2670.9	2675.7	2691.7	2698.1	2696.5
20°	2613.2	2616.4	2635.6	2661.3	2634.0
22.5°	2538.0	2546.0	2555.6	2602.0	2595.6
25°	2461.1	2472.3	2509.2	2544.4	2517.2
27.5°	2381.1	2392.3	2437.1	2462.7	2459.5
30°	2294.6	2305.8	2361.8	2397.1	2381.1
32.5°	2204.9	2224.1	2285.0	2315.4	2285.0
35°	2116.8	2126.5	2185.7	2209.7	2195.3
37.5°	2000.0	2036.8	2096.0	2112.0	2086.4
40°	1911.9	1913.5	1998.4	1998.4	1996.8
42.5°	1798.2	1823.8	1879.9	1910.3	1894.3
45°	1700.5	1708.5	1780.6	1803.0	1798.2
47.5°	1593.2	1625.3	1678.1	1703.7	1690.9
50°	1487.6	1510.0	1564.4	1598.0	1585.2
52.5°	1389.9	1407.5	1463.5	1482.8	1469.9
55°	1271.4	1300.2	1346.6	1365.9	1354.7
57.5°	1168.9	1189.7	1247.4	1253.8	1247.4
60°	1061.6	1085.6	1132.1	1136.9	1124.1
62.5°	959.1	975.2	1016.8	1018.4	1004.0
65°	850.3	869.5	898.3	895.1	880.7
67.5°	743.0	755.8	783.0	771.8	755.8
70°	634.1	645.3	667.7	651.7	637.3
72.5°	528.4	536.4	555.6	531.6	514.0
75°	424.3	427.5	441.9	411.5	385.9
77.5°	321.9	325.1	333.1	302.6	273.8
80°	229.0	229.0	232.2	200.2	180.9
82.5°	144.1	144.1	142.5	118.5	107.3
85°	75.3	73.7	72.1	57.6	52.8
87.5°	27.2	27.2	22.4	20.8	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)