

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: P486014

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5STD-30-120-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: P486014
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-30-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

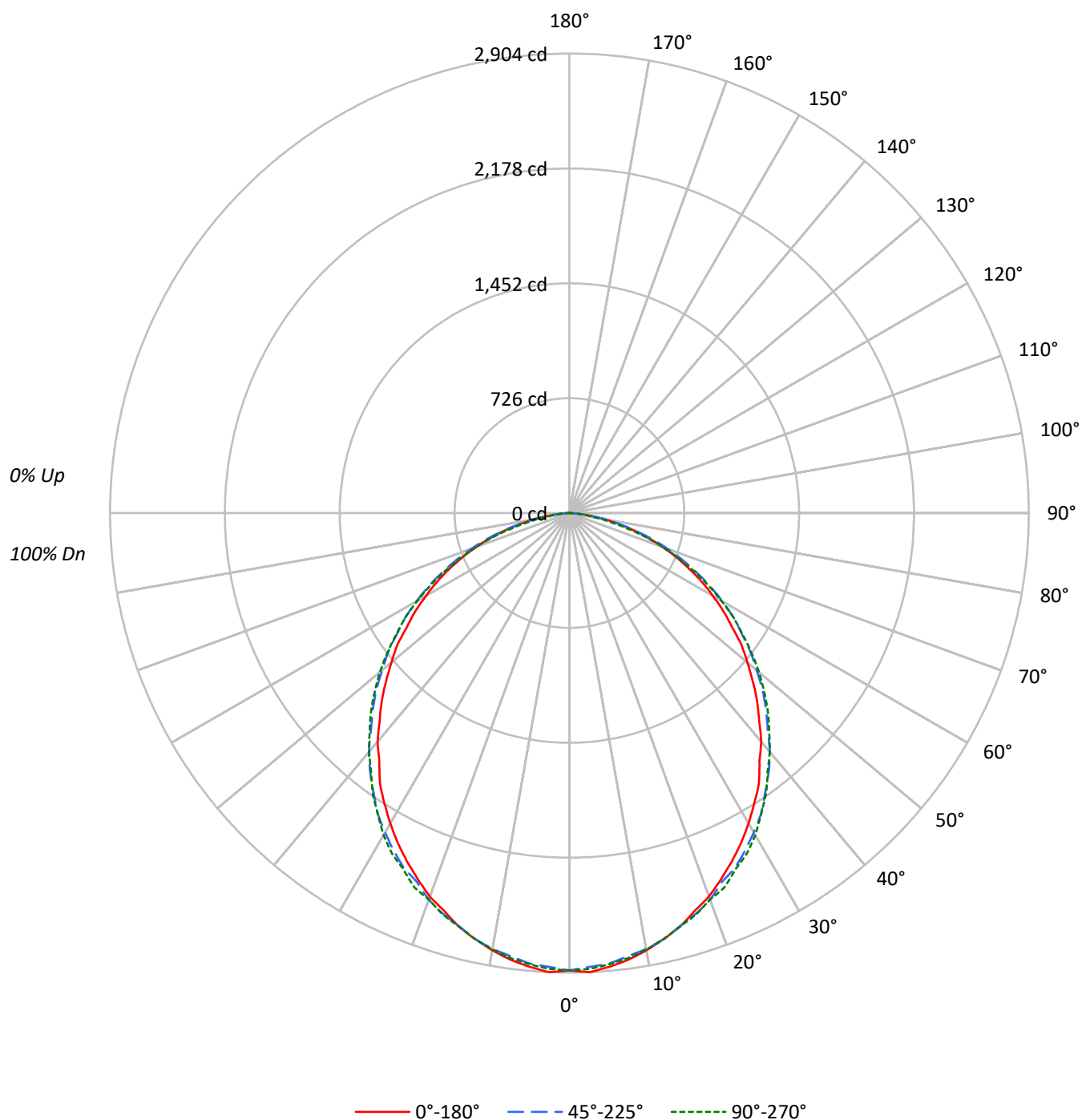
Lumens per Lamp: N/A
Luminaire Lumens: 7423.3 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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				10			
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°	7777	7777	7777
5°	7777	7722	7734
10°	7668	7642	7651
15°	7536	7528	7532
20°	7385	7448	7444
25°	7211	7352	7375
30°	7036	7242	7301
35°	6862	7086	7117
40°	6628	6927	6922
45°	6386	6687	6753
50°	6145	6463	6549
55°	5886	6235	6272
60°	5638	6013	5970
65°	5342	5645	5534
70°	4923	5184	4948
75°	4353	4534	3959
80°	3502	3550	2768
85°	2294	2195	1609



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.6	3.7
10°-20°	763.8	10.3
20°-30°	1137.2	15.3
30°-40°	1338.6	18.0
40°-50°	1342.1	18.1
50°-60°	1176.9	15.9
60°-70°	860.6	11.6
70°-80°	443.5	6.0
80°-90°	89.0	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°	2172.7	29.3
0°-40°	3511.3	47.3
0°-60°	6030.2	81.2
0°-90°	7423.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7423.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2890	2890	2890	2890	2890	
5°	2879	2860	2858	2877	2863	273
15°	2705	2710	2702	2719	2704	761
25°	2429	2440	2476	2511	2484	1119
35°	2089	2098	2157	2181	2166	1301
45°	1678	1686	1757	1779	1774	1293
55°	1255	1283	1329	1348	1337	1126
65°	839	858	886	883	869	830
75°	419	422	436	406	381	444
85°	74	73	71	57	52	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2890.1	2890.1	2890.1	2890.1	2890.1
2.5°	2904.3	2890.1	2871.1	2886.9	2883.7
5°	2879.0	2860.0	2858.5	2877.4	2863.2
7.5°	2847.4	2844.2	2825.3	2845.8	2837.9
10°	2806.3	2803.1	2796.8	2811.1	2800.0
12.5°	2757.3	2754.2	2757.3	2765.2	2757.3
15°	2705.2	2709.9	2702.0	2719.4	2703.6
17.5°	2635.7	2640.4	2656.2	2662.5	2660.9
20°	2578.8	2581.9	2600.9	2626.2	2599.3
22.5°	2504.5	2512.4	2521.9	2567.7	2561.4
25°	2428.7	2439.7	2476.1	2510.8	2484.0
27.5°	2349.7	2360.7	2405.0	2430.2	2427.1
30°	2264.3	2275.4	2330.7	2365.5	2349.7
32.5°	2175.8	2194.8	2254.8	2284.9	2254.8
35°	2088.9	2098.4	2156.9	2180.6	2166.4
37.5°	1973.6	2009.9	2068.4	2084.2	2058.9
40°	1886.7	1888.3	1972.0	1972.0	1970.4
42.5°	1774.5	1799.8	1855.1	1885.1	1869.3
45°	1678.1	1686.0	1757.1	1779.2	1774.5
47.5°	1572.2	1603.8	1656.0	1681.3	1668.6
50°	1467.9	1490.1	1543.8	1577.0	1564.3
52.5°	1371.6	1388.9	1444.2	1463.2	1450.6
55°	1254.6	1283.1	1328.9	1347.9	1336.8
57.5°	1153.5	1174.0	1230.9	1237.2	1230.9
60°	1047.6	1071.3	1117.2	1121.9	1109.3
62.5°	946.5	962.3	1003.4	1005.0	990.7
65°	839.0	858.0	886.5	883.3	869.1
67.5°	733.2	745.8	772.7	761.6	745.8
70°	625.7	636.8	658.9	643.1	628.9
72.5°	521.4	529.3	548.3	524.6	507.2
75°	418.7	421.9	436.1	406.1	380.8
77.5°	317.6	320.8	328.7	298.6	270.2
80°	226.0	226.0	229.1	197.5	178.6
82.5°	142.2	142.2	140.6	116.9	105.9
85°	74.3	72.7	71.1	56.9	52.1
87.5°	26.9	26.9	22.1	20.5	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)