

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: P485986

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5HI-20-120-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: P485986
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-LD4-5HI-20-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

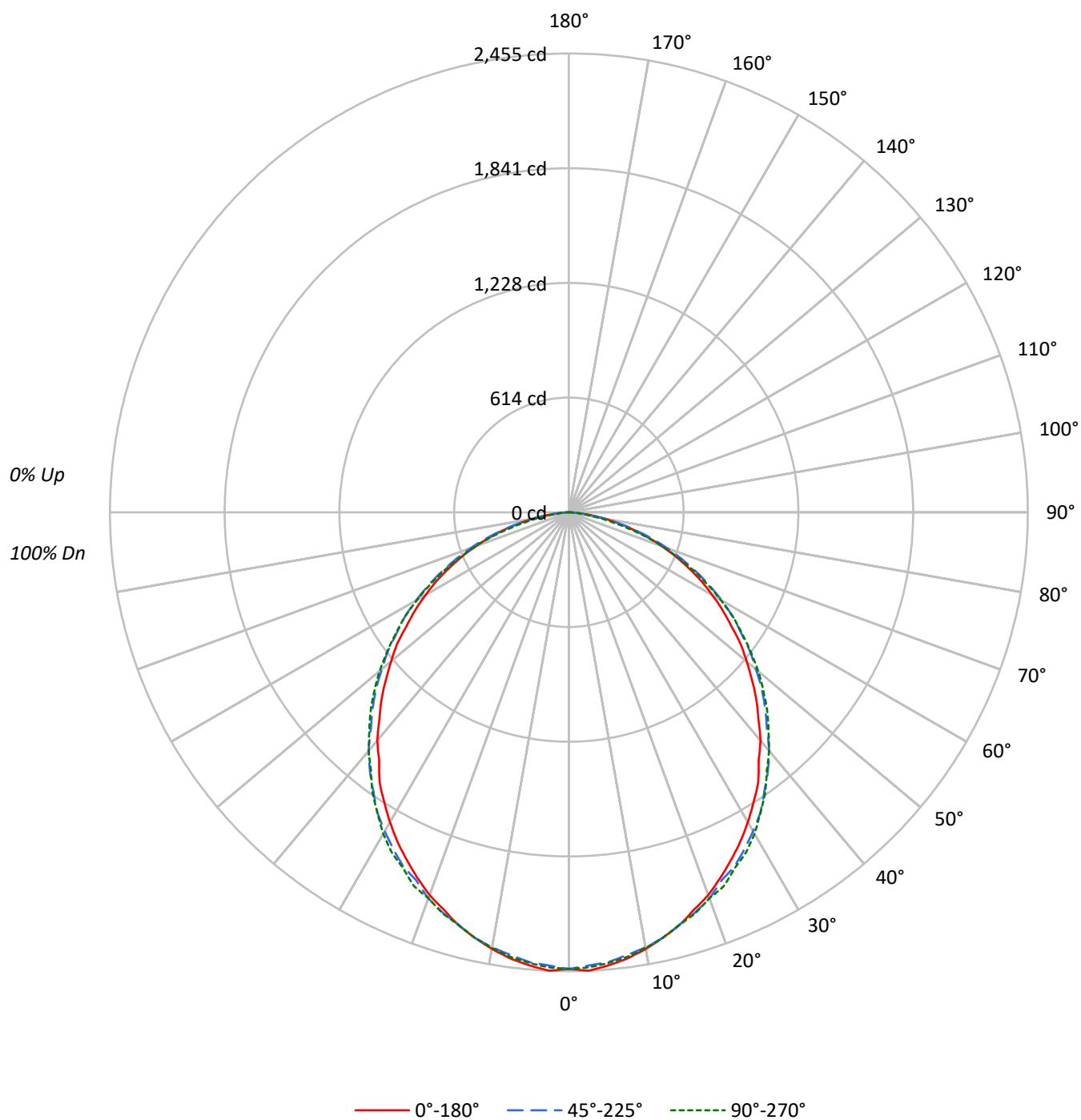
Lumens per Lamp: N/A
Luminaire Lumens: 6274.3 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 110
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°	6573	6573	6573
5°	6573	6526	6537
10°	6481	6459	6467
15°	6370	6362	6366
20°	6242	6295	6292
25°	6095	6214	6234
30°	5947	6121	6171
35°	5800	5989	6015
40°	5602	5855	5850
45°	5398	5652	5708
50°	5194	5462	5535
55°	4975	5270	5301
60°	4766	5082	5046
65°	4516	4770	4677
70°	4161	4382	4182
75°	3680	3832	3347
80°	2960	3002	2338
85°	1939	1856	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.6	3.7
10°-20°	645.6	10.3
20°-30°	961.2	15.3
30°-40°	1131.4	18.0
40°-50°	1134.3	18.1
50°-60°	994.7	15.9
60°-70°	727.4	11.6
70°-80°	374.8	6.0
80°-90°	75.2	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°	1836.4	29.3
0°-40°	2967.8	47.3
0°-60°	5096.8	81.2
0°-90°	6274.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6274.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2443	2443	2443	2443	2443	
5°	2433	2417	2416	2432	2420	230
15°	2286	2290	2284	2298	2285	643
25°	2053	2062	2093	2122	2100	946
35°	1766	1774	1823	1843	1831	1100
45°	1418	1425	1485	1504	1500	1093
55°	1060	1084	1123	1139	1130	952
65°	709	725	749	747	735	702
75°	354	357	369	343	322	375
85°	63	61	60	48	44	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2442.7	2442.7	2442.7	2442.7	2442.7
2.5°	2454.7	2442.7	2426.7	2440.1	2437.4
5°	2433.4	2417.4	2416.0	2432.0	2420.0
7.5°	2406.7	2404.0	2388.0	2405.3	2398.7
10°	2371.9	2369.3	2363.9	2375.9	2366.6
12.5°	2330.5	2327.9	2330.5	2337.2	2330.5
15°	2286.5	2290.5	2283.8	2298.5	2285.1
17.5°	2227.7	2231.7	2245.1	2250.4	2249.1
20°	2179.6	2182.3	2198.3	2219.7	2197.0
22.5°	2116.9	2123.5	2131.5	2170.3	2164.9
25°	2052.7	2062.1	2092.8	2122.2	2099.5
27.5°	1986.0	1995.3	2032.7	2054.1	2051.4
30°	1913.8	1923.2	1969.9	1999.3	1986.0
32.5°	1839.1	1855.1	1905.8	1931.2	1905.8
35°	1765.6	1773.6	1823.0	1843.1	1831.0
37.5°	1668.1	1698.8	1748.2	1761.6	1740.2
40°	1594.6	1596.0	1666.8	1666.8	1665.4
42.5°	1499.8	1521.2	1567.9	1593.3	1580.0
45°	1418.4	1425.0	1485.1	1503.8	1499.8
47.5°	1328.9	1355.6	1399.7	1421.0	1410.3
50°	1240.7	1259.4	1304.8	1332.9	1322.2
52.5°	1159.3	1174.0	1220.7	1236.7	1226.0
55°	1060.4	1084.5	1123.2	1139.2	1129.9
57.5°	975.0	992.3	1040.4	1045.7	1040.4
60°	885.5	905.5	944.2	948.2	937.6
62.5°	800.0	813.4	848.1	849.4	837.4
65°	709.2	725.2	749.2	746.6	734.6
67.5°	619.7	630.4	653.1	643.7	630.4
70°	528.9	538.2	556.9	543.6	531.5
72.5°	440.7	447.4	463.4	443.4	428.7
75°	353.9	356.6	368.6	343.2	321.9
77.5°	268.4	271.1	277.8	252.4	228.4
80°	191.0	191.0	193.7	166.9	150.9
82.5°	120.2	120.2	118.9	98.8	89.5
85°	62.8	61.4	60.1	48.1	44.1
87.5°	22.7	22.7	18.7	17.4	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)