

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: P486008

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5LO-50-120-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: P486008
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-LD4-5LO-50-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

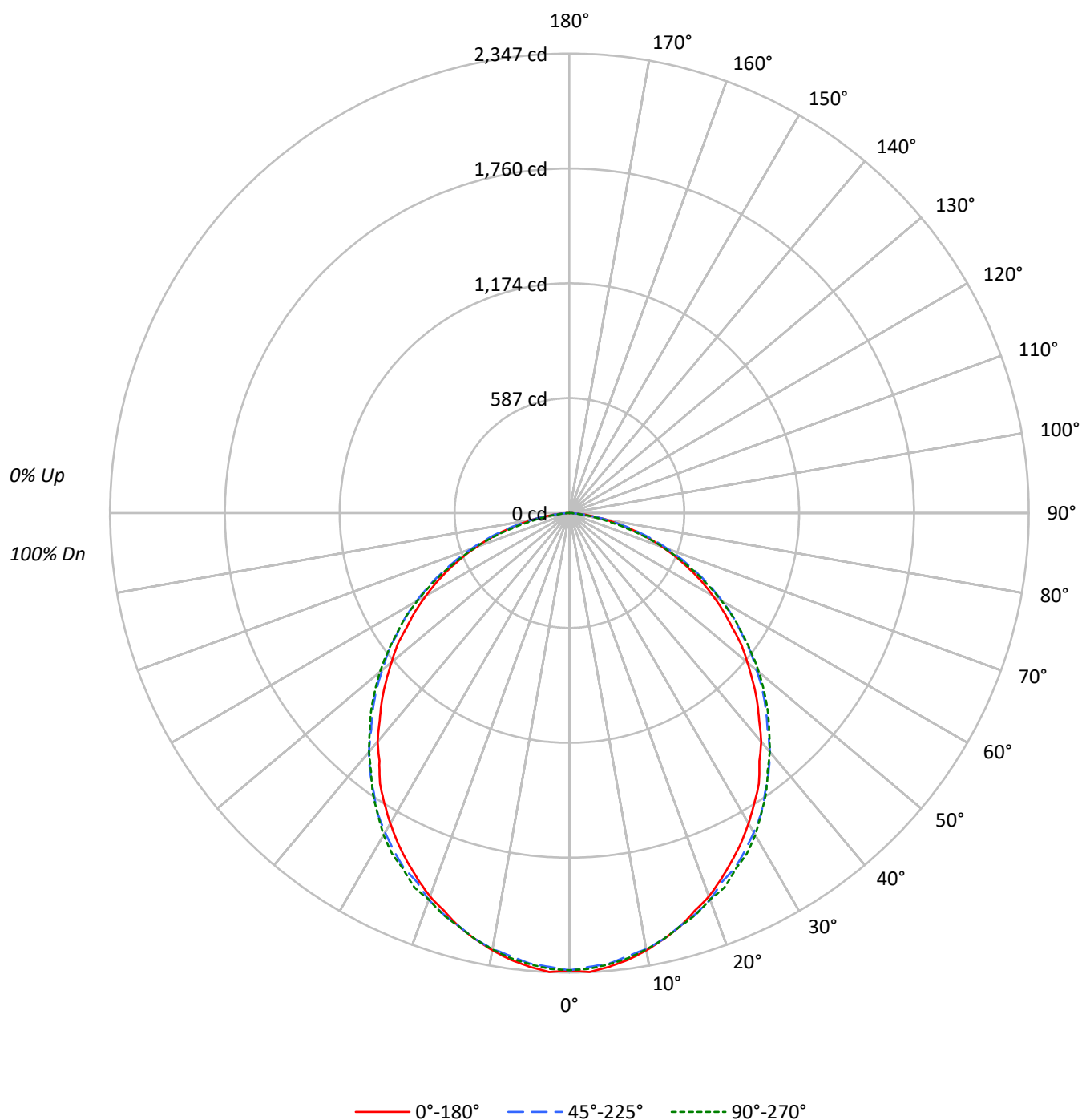
Lumens per Lamp: N/A
Luminaire Lumens: 5999.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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
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°	6285	6285	6285
5°	6285	6240	6250
10°	6197	6176	6183
15°	6090	6083	6087
20°	5968	6019	6015
25°	5828	5941	5960
30°	5686	5853	5900
35°	5546	5726	5751
40°	5356	5598	5594
45°	5161	5404	5457
50°	4966	5223	5292
55°	4757	5038	5068
60°	4556	4859	4824
65°	4318	4562	4472
70°	3979	4190	3998
75°	3518	3664	3199
80°	2830	2870	2236
85°	1853	1775	1300



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.5	3.7
10°-20°	617.3	10.3
20°-30°	919.0	15.3
30°-40°	1081.7	18.0
40°-50°	1084.6	18.1
50°-60°	951.1	15.9
60°-70°	695.5	11.6
70°-80°	358.4	6.0
80°-90°	71.9	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°	1755.8	29.3
0°-40°	2837.6	47.3
0°-60°	4873.2	81.2
0°-90°	5999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5999.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2336	2336	2336	2336	2336	
5°	2327	2311	2310	2325	2314	220
15°	2186	2190	2184	2198	2185	615
25°	1963	1972	2001	2029	2007	904
35°	1688	1696	1743	1762	1751	1051
45°	1356	1362	1420	1438	1434	1045
55°	1014	1037	1074	1089	1080	910
65°	678	693	716	714	702	671
75°	338	341	352	328	308	359
85°	60	59	58	46	42	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2335.5	2335.5	2335.5	2335.5	2335.5
2.5°	2347.0	2335.5	2320.2	2333.0	2330.4
5°	2326.6	2311.3	2310.0	2325.3	2313.8
7.5°	2301.1	2298.5	2283.2	2299.8	2293.4
10°	2267.9	2265.3	2260.2	2271.7	2262.8
12.5°	2228.3	2225.7	2228.3	2234.7	2228.3
15°	2186.1	2190.0	2183.6	2197.6	2184.9
17.5°	2130.0	2133.8	2146.6	2151.7	2150.4
20°	2084.0	2086.5	2101.9	2122.3	2100.6
22.5°	2024.0	2030.4	2038.0	2075.0	2069.9
25°	1962.7	1971.6	2001.0	2029.1	2007.4
27.5°	1898.8	1907.8	1943.5	1964.0	1961.4
30°	1829.9	1838.8	1883.5	1911.6	1898.8
32.5°	1758.4	1773.7	1822.2	1846.5	1822.2
35°	1688.1	1695.8	1743.0	1762.2	1750.7
37.5°	1594.9	1624.3	1671.5	1684.3	1663.9
40°	1524.7	1526.0	1593.6	1593.6	1592.4
42.5°	1434.0	1454.4	1499.1	1523.4	1510.6
45°	1356.1	1362.5	1420.0	1437.8	1434.0
47.5°	1270.6	1296.1	1338.2	1358.7	1348.5
50°	1186.3	1204.2	1247.6	1274.4	1264.2
52.5°	1108.4	1122.4	1167.1	1182.5	1172.2
55°	1013.9	1036.9	1073.9	1089.2	1080.3
57.5°	932.2	948.8	994.7	999.9	994.7
60°	846.6	865.8	902.8	906.6	896.4
62.5°	764.9	777.7	810.9	812.1	800.6
65°	678.1	693.4	716.4	713.8	702.3
67.5°	592.5	602.7	624.4	615.5	602.7
70°	505.7	514.6	532.5	519.7	508.2
72.5°	421.4	427.8	443.1	423.9	409.9
75°	338.4	340.9	352.4	328.2	307.7
77.5°	256.7	259.2	265.6	241.3	218.4
80°	182.6	182.6	185.2	159.6	144.3
82.5°	114.9	114.9	113.6	94.5	85.6
85°	60.0	58.7	57.5	46.0	42.1
87.5°	21.7	21.7	17.9	16.6	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)