

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: P486001

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5LO-27-120-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: P486001
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-27-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

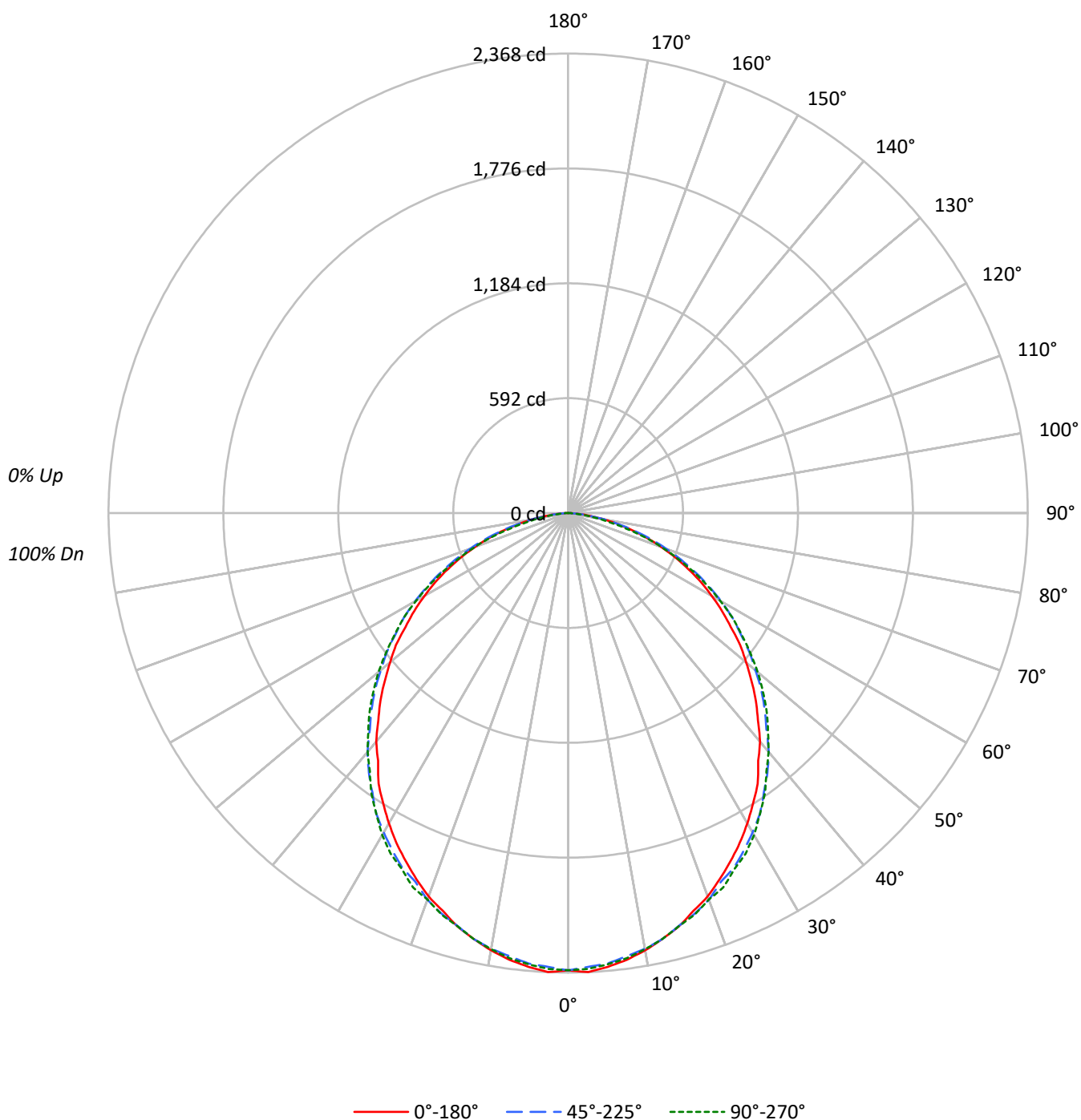
Lumens per Lamp: N/A
Luminaire Lumens: 6052.1 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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					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°	6340	6340	6340
5°	6340	6295	6306
10°	6252	6231	6238
15°	6144	6137	6141
20°	6021	6072	6069
25°	5879	5994	6013
30°	5736	5904	5952
35°	5595	5777	5802
40°	5403	5648	5643
45°	5206	5452	5506
50°	5010	5269	5339
55°	4799	5083	5113
60°	4597	4902	4867
65°	4356	4602	4511
70°	4013	4227	4034
75°	3550	3697	3228
80°	2854	2895	2256
85°	1868	1791	1312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.5	3.7
10°-20°	622.7	10.3
20°-30°	927.1	15.3
30°-40°	1091.3	18.0
40°-50°	1094.2	18.1
50°-60°	959.5	15.9
60°-70°	701.6	11.6
70°-80°	361.6	6.0
80°-90°	72.5	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°	1771.4	29.3
0°-40°	2862.7	47.3
0°-60°	4916.4	81.2
0°-90°	6052.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6052.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2356	2356	2356	2356	2356	
5°	2347	2332	2330	2346	2334	222
15°	2206	2209	2203	2217	2204	621
25°	1980	1989	2019	2047	2025	912
35°	1703	1711	1758	1778	1766	1061
45°	1368	1375	1432	1451	1447	1054
55°	1023	1046	1083	1099	1090	918
65°	684	700	723	720	708	677
75°	341	344	356	331	310	362
85°	60	59	58	46	42	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2356.2	2356.2	2356.2	2356.2	2356.2
2.5°	2367.8	2356.2	2340.8	2353.6	2351.1
5°	2347.2	2331.7	2330.5	2345.9	2334.3
7.5°	2321.4	2318.9	2303.4	2320.1	2313.7
10°	2287.9	2285.4	2280.2	2291.8	2282.8
12.5°	2248.0	2245.4	2248.0	2254.4	2248.0
15°	2205.5	2209.4	2202.9	2217.1	2204.2
17.5°	2148.8	2152.7	2165.6	2170.7	2169.4
20°	2102.4	2105.0	2120.5	2141.1	2119.2
22.5°	2041.9	2048.3	2056.1	2093.4	2088.3
25°	1980.0	1989.1	2018.7	2047.0	2025.1
27.5°	1915.6	1924.7	1960.7	1981.3	1978.8
30°	1846.1	1855.1	1900.2	1928.5	1915.6
32.5°	1773.9	1789.4	1838.3	1862.8	1838.3
35°	1703.1	1710.8	1758.5	1777.8	1766.2
37.5°	1609.0	1638.7	1686.3	1699.2	1678.6
40°	1538.2	1539.5	1607.7	1607.7	1606.5
42.5°	1446.7	1467.3	1512.4	1536.9	1524.0
45°	1368.1	1374.6	1432.5	1450.6	1446.7
47.5°	1281.8	1307.6	1350.1	1370.7	1360.4
50°	1196.8	1214.8	1258.6	1285.7	1275.4
52.5°	1118.2	1132.4	1177.5	1192.9	1182.6
55°	1022.9	1046.1	1083.4	1098.9	1089.9
57.5°	940.4	957.2	1003.6	1008.7	1003.6
60°	854.1	873.4	910.8	914.7	904.4
62.5°	771.7	784.5	818.0	819.3	807.7
65°	684.1	699.5	722.7	720.1	708.5
67.5°	597.8	608.1	630.0	620.9	608.1
70°	510.1	519.2	537.2	524.3	512.7
72.5°	425.1	431.6	447.0	427.7	413.5
75°	341.4	344.0	355.6	331.1	310.5
77.5°	258.9	261.5	268.0	243.5	220.3
80°	184.2	184.2	186.8	161.0	145.6
82.5°	115.9	115.9	114.7	95.3	86.3
85°	60.5	59.3	58.0	46.4	42.5
87.5°	21.9	21.9	18.0	16.7	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)