

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: P485918

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3HI-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: P485918
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-LD4-3HI-30-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

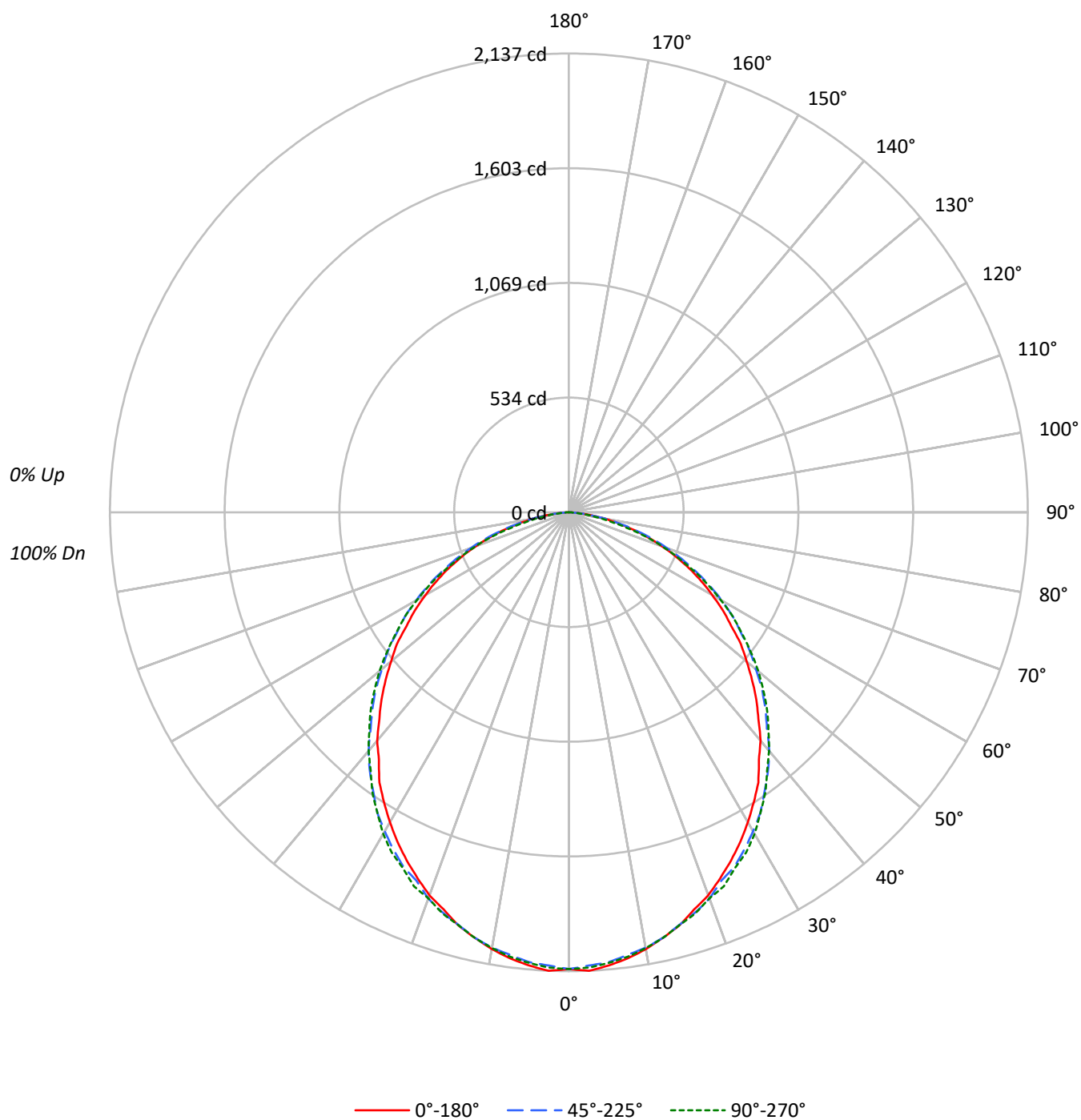
Lumens per Lamp: N/A
Luminaire Lumens: 5463.2 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66
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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		85
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		60
4	83	72	63	57	81	70	62	56	68	61	55		66	59	55		52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		45
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		39
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		35
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		31
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5723	5723	5723
5°	5723	5683	5692
10°	5643	5624	5631
15°	5546	5540	5543
20°	5435	5481	5478
25°	5307	5411	5428
30°	5178	5330	5373
35°	5050	5215	5237
40°	4878	5098	5094
45°	4700	4921	4970
50°	4523	4757	4820
55°	4332	4588	4616
60°	4149	4425	4394
65°	3932	4154	4073
70°	3623	3815	3641
75°	3204	3337	2914
80°	2577	2613	2036
85°	1689	1615	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.9	3.7
10°-20°	562.2	10.3
20°-30°	836.9	15.3
30°-40°	985.1	18.0
40°-50°	987.7	18.1
50°-60°	866.1	15.9
60°-70°	633.3	11.6
70°-80°	326.4	6.0
80°-90°	65.5	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°	1599.0	29.3
0°-40°	2584.1	47.3
0°-60°	4438.0	81.2
0°-90°	5463.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5463.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2127	2127	2127	2127	2127	
5°	2119	2105	2104	2118	2107	201
15°	1991	1994	1989	2001	1990	560
25°	1787	1796	1822	1848	1828	823
35°	1537	1544	1587	1605	1594	957
45°	1235	1241	1293	1309	1306	952
55°	923	944	978	992	984	829
65°	618	632	652	650	640	611
75°	308	310	321	299	280	327
85°	55	54	52	42	38	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2126.9	2126.9	2126.9	2126.9	2126.9
2.5°	2137.4	2126.9	2113.0	2124.6	2122.3
5°	2118.8	2104.9	2103.7	2117.6	2107.2
7.5°	2095.5	2093.2	2079.3	2094.4	2088.6
10°	2065.3	2063.0	2058.3	2068.8	2060.7
12.5°	2029.3	2026.9	2029.3	2035.1	2029.3
15°	1990.9	1994.4	1988.6	2001.4	1989.7
17.5°	1939.7	1943.2	1954.8	1959.5	1958.3
20°	1897.9	1900.2	1914.1	1932.7	1913.0
22.5°	1843.2	1849.0	1856.0	1889.7	1885.1
25°	1787.4	1795.5	1822.3	1847.8	1828.1
27.5°	1729.2	1737.4	1769.9	1788.5	1786.2
30°	1666.4	1674.6	1715.3	1740.9	1729.2
32.5°	1601.3	1615.3	1659.5	1681.6	1659.5
35°	1537.4	1544.3	1587.4	1604.8	1594.3
37.5°	1452.5	1479.2	1522.2	1533.9	1515.3
40°	1388.5	1389.7	1451.3	1451.3	1450.1
42.5°	1305.9	1324.5	1365.2	1387.3	1375.7
45°	1235.0	1240.8	1293.1	1309.4	1305.9
47.5°	1157.1	1180.3	1218.7	1237.3	1228.0
50°	1080.3	1096.6	1136.2	1160.6	1151.3
52.5°	1009.4	1022.2	1062.9	1076.8	1067.5
55°	923.3	944.3	978.0	992.0	983.8
57.5°	848.9	864.0	905.9	910.6	905.9
60°	771.0	788.4	822.2	825.7	816.4
62.5°	696.6	708.2	738.4	739.6	729.1
65°	617.5	631.5	652.4	650.1	639.6
67.5°	539.6	548.9	568.7	560.5	548.9
70°	460.5	468.6	484.9	473.3	462.8
72.5°	383.8	389.6	403.5	386.1	373.3
75°	308.2	310.5	321.0	298.9	280.3
77.5°	233.7	236.1	241.9	219.8	198.9
80°	166.3	166.3	168.6	145.4	131.4
82.5°	104.7	104.7	103.5	86.1	77.9
85°	54.7	53.5	52.3	41.9	38.4
87.5°	19.8	19.8	16.3	15.1	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)