

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: P485949

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3STD-50-120-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: P485949
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-LD4-3STD-50-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

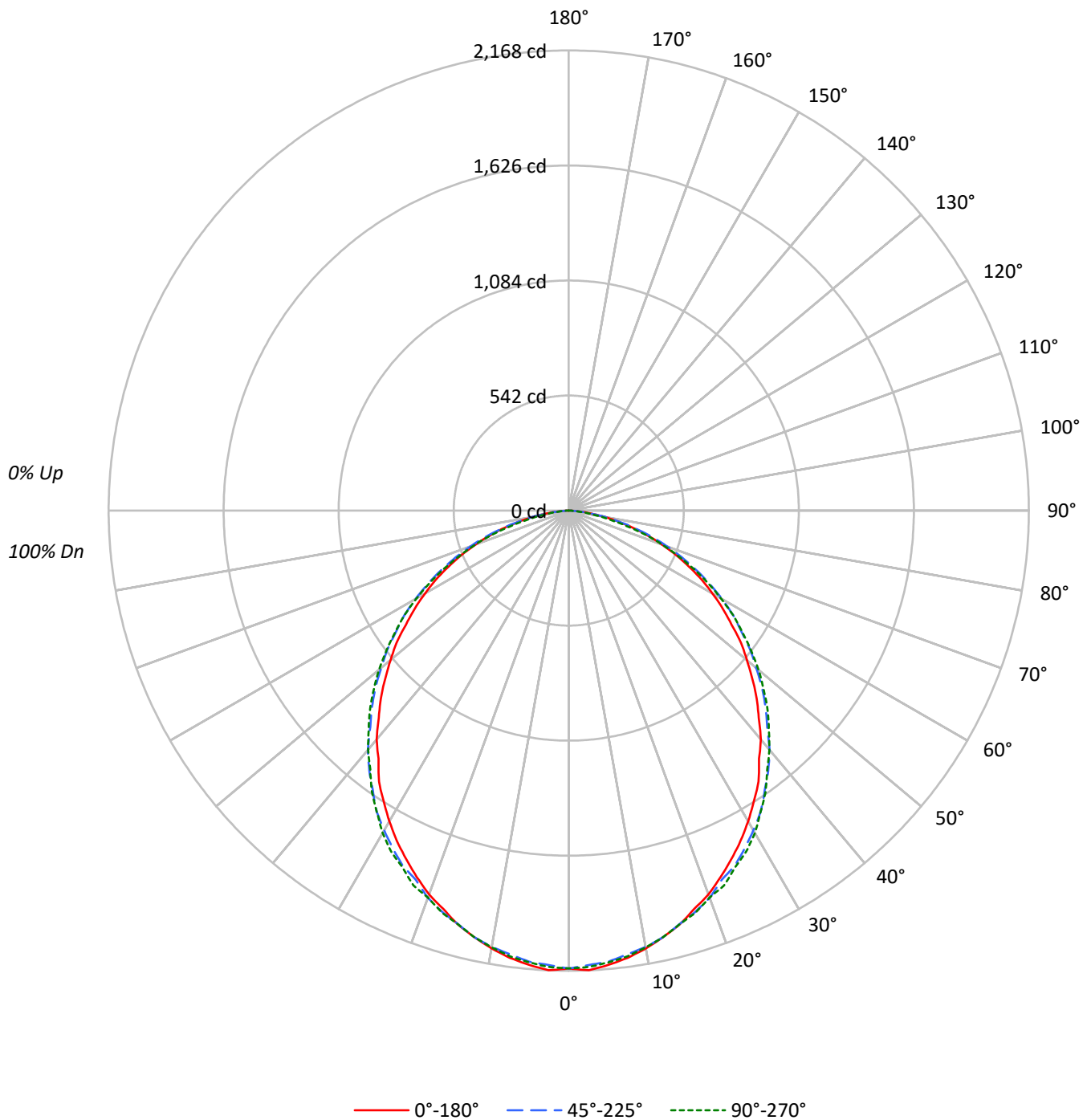
Lumens per Lamp: N/A
Luminaire Lumens: 5540.5 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	5804	5804	5804
5°	5804	5763	5773
10°	5723	5704	5710
15°	5625	5618	5622
20°	5512	5559	5556
25°	5382	5487	5505
30°	5251	5405	5449
35°	5122	5288	5312
40°	4947	5170	5166
45°	4767	4991	5040
50°	4587	4824	4888
55°	4393	4653	4681
60°	4208	4487	4456
65°	3987	4213	4130
70°	3674	3869	3693
75°	3249	3384	2955
80°	2613	2650	2066
85°	1711	1639	1201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.7	3.7
10°-20°	570.1	10.3
20°-30°	848.8	15.3
30°-40°	999.1	18.0
40°-50°	1001.7	18.1
50°-60°	878.4	15.9
60°-70°	642.3	11.6
70°-80°	331.0	6.0
80°-90°	66.4	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°	1621.6	29.3
0°-40°	2620.7	47.3
0°-60°	4500.8	81.2
0°-90°	5540.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5540.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2157	2157	2157	2157	2157	
5°	2149	2135	2134	2148	2137	203
15°	2019	2023	2017	2030	2018	568
25°	1813	1821	1848	1874	1854	835
35°	1559	1566	1610	1628	1617	971
45°	1252	1258	1311	1328	1324	965
55°	936	958	992	1006	998	841
65°	626	640	662	659	649	619
75°	312	315	326	303	284	331
85°	55	54	53	42	39	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2157.0	2157.0	2157.0	2157.0	2157.0
2.5°	2167.7	2157.0	2142.9	2154.7	2152.3
5°	2148.8	2134.6	2133.5	2147.6	2137.0
7.5°	2125.2	2122.8	2108.7	2124.0	2118.1
10°	2094.5	2092.2	2087.5	2098.1	2089.8
12.5°	2058.0	2055.6	2058.0	2063.9	2058.0
15°	2019.1	2022.6	2016.7	2029.7	2017.9
17.5°	1967.2	1970.7	1982.5	1987.2	1986.0
20°	1924.7	1927.1	1941.2	1960.1	1940.0
22.5°	1869.3	1875.2	1882.3	1916.5	1911.7
25°	1812.7	1820.9	1848.0	1874.0	1853.9
27.5°	1753.7	1762.0	1795.0	1813.8	1811.5
30°	1690.0	1698.3	1739.5	1765.5	1753.7
32.5°	1624.0	1638.1	1682.9	1705.3	1682.9
35°	1559.1	1566.2	1609.8	1627.5	1616.9
37.5°	1473.0	1500.1	1543.8	1555.6	1536.7
40°	1408.2	1409.3	1471.8	1471.8	1470.7
42.5°	1324.4	1343.3	1384.6	1407.0	1395.2
45°	1252.5	1258.4	1311.4	1328.0	1324.4
47.5°	1173.5	1197.0	1236.0	1254.8	1245.4
50°	1095.6	1112.1	1152.2	1177.0	1167.6
52.5°	1023.7	1036.7	1077.9	1092.1	1082.6
55°	936.4	957.6	991.8	1006.0	997.7
57.5°	860.9	876.3	918.7	923.4	918.7
60°	781.9	799.6	833.8	837.3	827.9
62.5°	706.4	718.2	748.9	750.1	739.5
65°	626.2	640.4	661.6	659.3	648.6
67.5°	547.2	556.7	576.7	568.4	556.7
70°	467.0	475.3	491.8	480.0	469.4
72.5°	389.2	395.1	409.2	391.5	378.6
75°	312.5	314.9	325.5	303.1	284.2
77.5°	237.1	239.4	245.3	222.9	201.7
80°	168.6	168.6	171.0	147.4	133.3
82.5°	106.1	106.1	105.0	87.3	79.0
85°	55.4	54.3	53.1	42.5	38.9
87.5°	20.0	20.0	16.5	15.3	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)