

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: P485917

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3HI-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: P485917
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-27-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

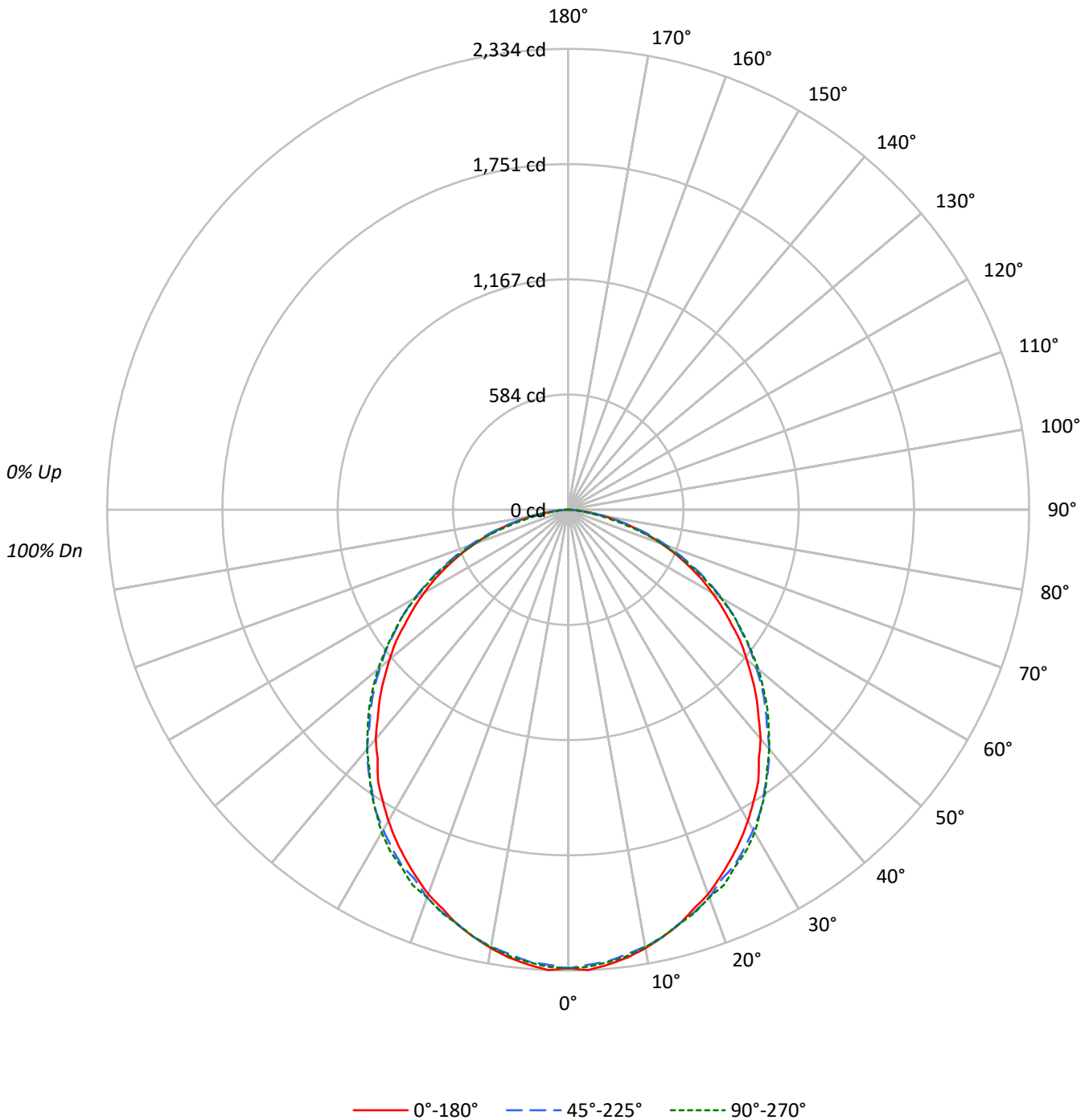
Lumens per Lamp: N/A
Luminaire Lumens: 5964.6 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-3HI-27-120-EDD

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	0
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°	6249	6249	6249
5°	6249	6204	6215
10°	6161	6140	6148
15°	6055	6048	6052
20°	5934	5985	5981
25°	5794	5907	5926
30°	5653	5819	5866
35°	5514	5693	5718
40°	5325	5566	5562
45°	5131	5373	5426
50°	4938	5193	5262
55°	4730	5010	5039
60°	4531	4831	4797
65°	4293	4535	4446
70°	3956	4165	3976
75°	3499	3643	3182
80°	2814	2853	2224
85°	1843	1763	1294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	3.7
10°-20°	613.7	10.3
20°-30°	913.7	15.3
30°-40°	1075.5	18.0
40°-50°	1078.4	18.1
50°-60°	945.6	15.9
60°-70°	691.5	11.6
70°-80°	356.4	6.0
80°-90°	71.5	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°	1745.8	29.3
0°-40°	2821.3	47.3
0°-60°	4845.3	81.2
0°-90°	5964.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5964.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2322	2322	2322	2322	2322	
5°	2313	2298	2297	2312	2301	219
15°	2174	2177	2171	2185	2172	612
25°	1951	1960	1990	2017	1996	899
35°	1678	1686	1733	1752	1741	1045
45°	1348	1355	1412	1430	1426	1039
55°	1008	1031	1068	1083	1074	905
65°	674	689	712	710	698	667
75°	336	339	350	326	306	357
85°	60	58	57	46	42	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2322.2	2322.2	2322.2	2322.2	2322.2
2.5°	2333.6	2322.2	2306.9	2319.6	2317.1
5°	2313.3	2298.0	2296.8	2312.0	2300.6
7.5°	2287.9	2285.3	2270.1	2286.6	2280.3
10°	2254.9	2252.3	2247.2	2258.7	2249.8
12.5°	2215.5	2213.0	2215.5	2221.9	2215.5
15°	2173.6	2177.4	2171.1	2185.0	2172.3
17.5°	2117.7	2121.6	2134.2	2139.3	2138.1
20°	2072.0	2074.6	2089.8	2110.1	2088.5
22.5°	2012.4	2018.7	2026.3	2063.1	2058.1
25°	1951.4	1960.3	1989.5	2017.4	1995.9
27.5°	1887.9	1896.8	1932.4	1952.7	1950.2
30°	1819.4	1828.3	1872.7	1900.6	1887.9
32.5°	1748.3	1763.5	1811.8	1835.9	1811.8
35°	1678.5	1686.1	1733.0	1752.1	1740.7
37.5°	1585.8	1615.0	1661.9	1674.6	1654.3
40°	1515.9	1517.2	1584.5	1584.5	1583.2
42.5°	1425.8	1446.1	1490.5	1514.7	1502.0
45°	1348.3	1354.7	1411.8	1429.6	1425.8
47.5°	1263.3	1288.7	1330.6	1350.9	1340.7
50°	1179.5	1197.3	1240.4	1267.1	1256.9
52.5°	1102.0	1116.0	1160.4	1175.7	1165.5
55°	1008.1	1030.9	1067.8	1083.0	1074.1
57.5°	926.8	943.3	989.0	994.1	989.0
60°	841.8	860.8	897.6	901.4	891.3
62.5°	760.5	773.2	806.2	807.5	796.1
65°	674.2	689.4	712.3	709.7	698.3
67.5°	589.1	599.3	620.8	612.0	599.3
70°	502.8	511.7	529.4	516.7	505.3
72.5°	419.0	425.3	440.6	421.5	407.6
75°	336.5	339.0	350.4	326.3	306.0
77.5°	255.2	257.7	264.1	240.0	217.1
80°	181.6	181.6	184.1	158.7	143.5
82.5°	114.3	114.3	113.0	94.0	85.1
85°	59.7	58.4	57.1	45.7	41.9
87.5°	21.6	21.6	17.8	16.5	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)