

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: P485896

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2LO-35-120-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: P485896
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-LD4-2LO-35-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

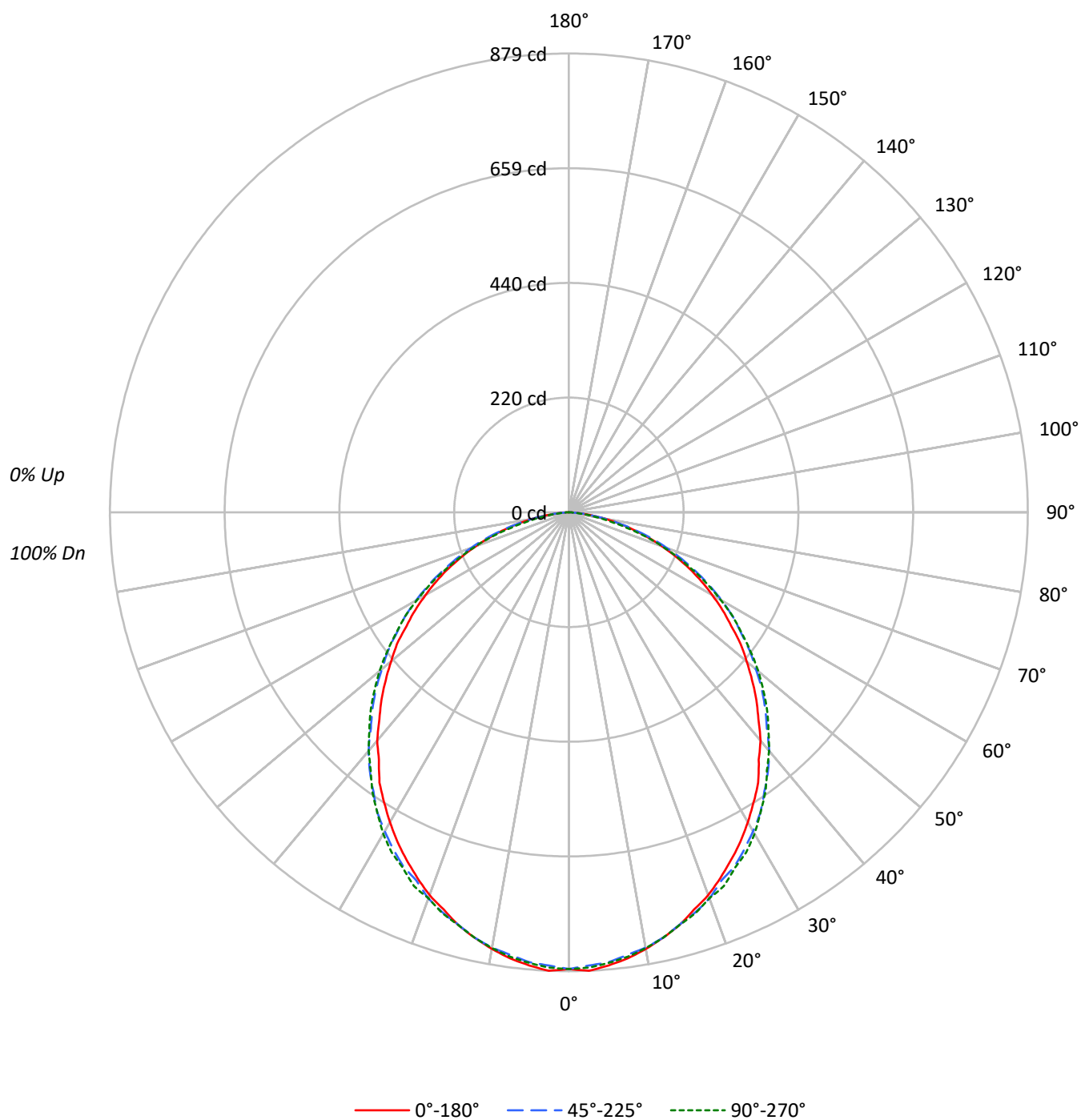
Lumens per Lamp: N/A
Luminaire Lumens: 2246.9 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	2354	2354	2354
5°	2354	2337	2341
10°	2321	2313	2316
15°	2281	2279	2280
20°	2235	2254	2253
25°	2183	2225	2233
30°	2130	2192	2210
35°	2077	2144	2154
40°	2006	2097	2095
45°	1933	2024	2044
50°	1860	1956	1982
55°	1782	1887	1898
60°	1707	1820	1807
65°	1617	1708	1675
70°	1490	1569	1498
75°	1317	1372	1199
80°	1060	1075	837
85°	695	664	488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	3.7
10°-20°	231.2	10.3
20°-30°	344.2	15.3
30°-40°	405.2	18.0
40°-50°	406.2	18.1
50°-60°	356.2	15.9
60°-70°	260.5	11.6
70°-80°	134.2	6.0
80°-90°	26.9	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°	657.6	29.3
0°-40°	1062.8	47.3
0°-60°	1825.3	81.2
0°-90°	2246.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2246.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	871	866	865	871	867	82
15°	819	820	818	823	818	230
25°	735	738	750	760	752	339
35°	632	635	653	660	656	394
45°	508	510	532	538	537	391
55°	380	388	402	408	405	341
65°	254	260	268	267	263	251
75°	127	128	132	123	115	134
85°	22	22	22	17	16	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	874.8	874.8	874.8	874.8	874.8
2.5°	879.1	874.8	869.0	873.8	872.9
5°	871.4	865.7	865.2	870.9	866.6
7.5°	861.9	860.9	855.2	861.4	859.0
10°	849.4	848.5	846.6	850.9	847.5
12.5°	834.6	833.6	834.6	837.0	834.6
15°	818.8	820.2	817.9	823.1	818.3
17.5°	797.8	799.2	804.0	805.9	805.4
20°	780.5	781.5	787.2	794.9	786.8
22.5°	758.1	760.5	763.3	777.2	775.3
25°	735.1	738.5	749.5	760.0	751.9
27.5°	711.2	714.5	727.9	735.6	734.6
30°	685.4	688.7	705.5	716.0	711.2
32.5°	658.6	664.3	682.5	691.6	682.5
35°	632.3	635.2	652.8	660.0	655.7
37.5°	597.4	608.4	626.1	630.8	623.2
40°	571.1	571.5	596.9	596.9	596.4
42.5°	537.1	544.8	561.5	570.6	565.8
45°	507.9	510.3	531.8	538.5	537.1
47.5°	475.9	485.5	501.2	508.9	505.1
50°	444.3	451.0	467.3	477.3	473.5
52.5°	415.1	420.4	437.1	442.9	439.1
55°	379.8	388.4	402.2	408.0	404.6
57.5°	349.1	355.4	372.6	374.5	372.6
60°	317.1	324.3	338.1	339.6	335.8
62.5°	286.5	291.3	303.7	304.2	299.9
65°	254.0	259.7	268.3	267.4	263.1
67.5°	221.9	225.7	233.9	230.5	225.7
70°	189.4	192.7	199.4	194.7	190.4
72.5°	157.8	160.2	166.0	158.8	153.5
75°	126.7	127.7	132.0	122.9	115.3
77.5°	96.1	97.1	99.5	90.4	81.8
80°	68.4	68.4	69.4	59.8	54.0
82.5°	43.0	43.0	42.6	35.4	32.0
85°	22.5	22.0	21.5	17.2	15.8
87.5°	8.1	8.1	6.7	6.2	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)