

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: P485850

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-1HI-40-120-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: P485850
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-LD4-1HI-40-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

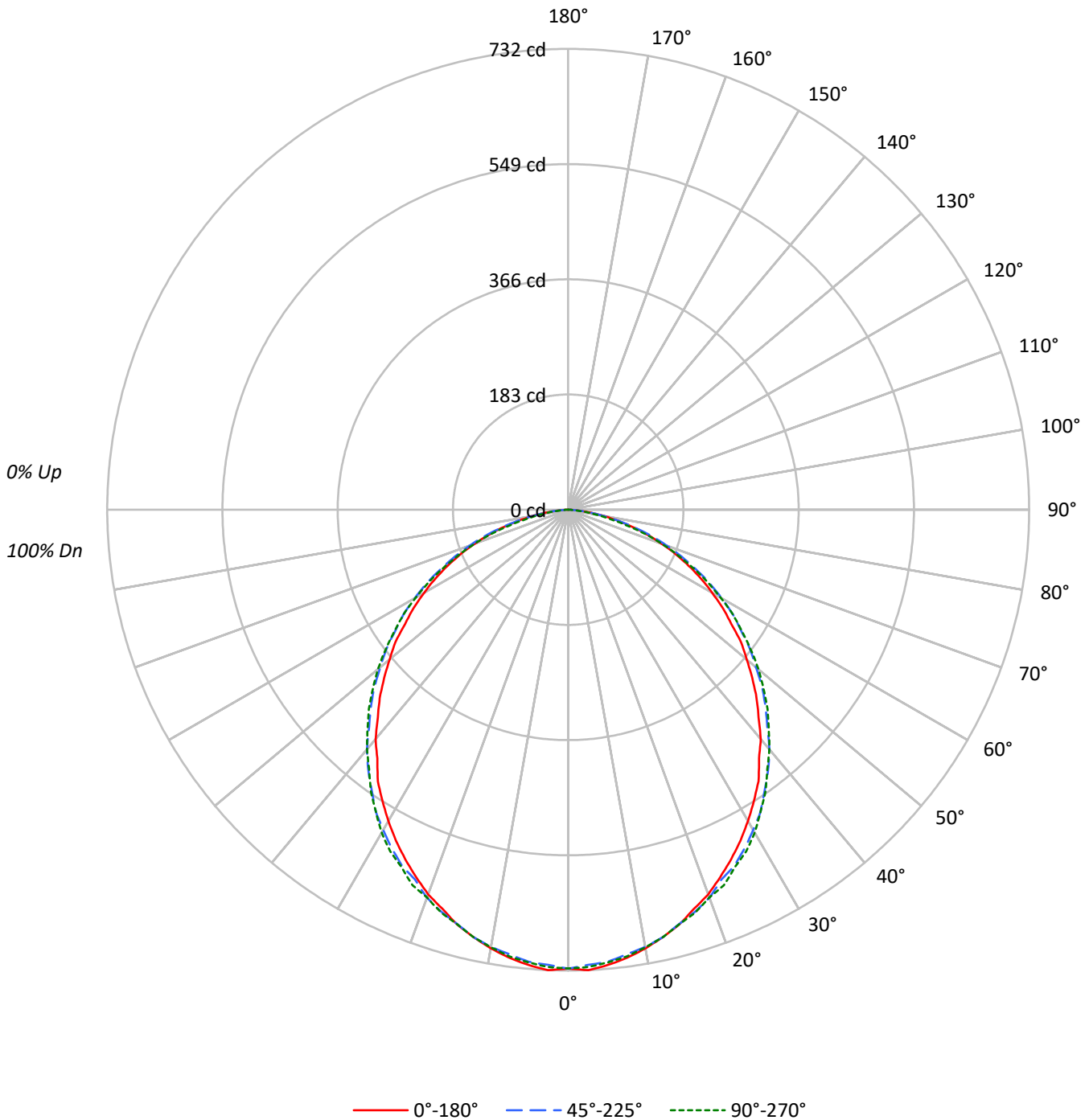
Lumens per Lamp: N/A
Luminaire Lumens: 1871.6 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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	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°	1961	1961	1961
5°	1961	1947	1950
10°	1933	1927	1929
15°	1900	1898	1899
20°	1862	1878	1877
25°	1818	1854	1860
30°	1774	1826	1841
35°	1730	1786	1794
40°	1671	1747	1745
45°	1610	1686	1703
50°	1549	1629	1651
55°	1484	1572	1581
60°	1421	1516	1505
65°	1347	1423	1395
70°	1242	1307	1248
75°	1098	1144	998
80°	883	896	697
85°	577	553	404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	3.7
10°-20°	192.6	10.3
20°-30°	286.7	15.3
30°-40°	337.5	18.0
40°-50°	338.4	18.1
50°-60°	296.7	15.9
60°-70°	217.0	11.6
70°-80°	111.8	6.0
80°-90°	22.4	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°	547.8	29.3
0°-40°	885.3	47.3
0°-60°	1520.4	81.2
0°-90°	1871.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1871.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	729	729	729	729	729	
5°	726	721	721	726	722	69
15°	682	683	681	686	682	192
25°	612	615	624	633	626	282
35°	527	529	544	550	546	328
45°	423	425	443	449	447	326
55°	316	324	335	340	337	284
65°	212	216	224	223	219	209
75°	106	106	110	102	96	112
85°	19	18	18	14	13	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	728.7	728.7	728.7	728.7	728.7
2.5°	732.2	728.7	723.9	727.9	727.1
5°	725.9	721.1	720.7	725.5	721.9
7.5°	717.9	717.1	712.3	717.5	715.5
10°	707.5	706.7	705.2	708.7	705.9
12.5°	695.2	694.4	695.2	697.2	695.2
15°	682.0	683.2	681.2	685.6	681.6
17.5°	664.5	665.7	669.7	671.3	670.9
20°	650.2	651.0	655.8	662.1	655.4
22.5°	631.4	633.4	635.8	647.4	645.8
25°	612.3	615.1	624.3	633.0	626.3
27.5°	592.4	595.2	606.4	612.7	611.9
30°	570.9	573.7	587.6	596.4	592.4
32.5°	548.6	553.4	568.5	576.1	568.5
35°	526.7	529.1	543.8	549.8	546.2
37.5°	497.6	506.8	521.5	525.5	519.1
40°	475.7	476.1	497.2	497.2	496.8
42.5°	447.4	453.8	467.7	475.3	471.3
45°	423.1	425.1	443.0	448.6	447.4
47.5°	396.4	404.4	417.5	423.9	420.7
50°	370.1	375.7	389.2	397.6	394.4
52.5°	345.8	350.2	364.1	368.9	365.7
55°	316.3	323.5	335.0	339.8	337.0
57.5°	290.8	296.0	310.3	311.9	310.3
60°	264.1	270.1	281.7	282.9	279.7
62.5°	238.6	242.6	253.0	253.4	249.8
65°	211.5	216.3	223.5	222.7	219.1
67.5°	184.9	188.0	194.8	192.0	188.0
70°	157.8	160.6	166.1	162.1	158.6
72.5°	131.5	133.5	138.2	132.3	127.9
75°	105.6	106.4	110.0	102.4	96.0
77.5°	80.1	80.9	82.9	75.3	68.1
80°	57.0	57.0	57.8	49.8	45.0
82.5°	35.9	35.9	35.5	29.5	26.7
85°	18.7	18.3	17.9	14.3	13.1
87.5°	6.8	6.8	5.6	5.2	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)