

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: P485875

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-1STD-40-120-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: P485875
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-LD4-1STD-40-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

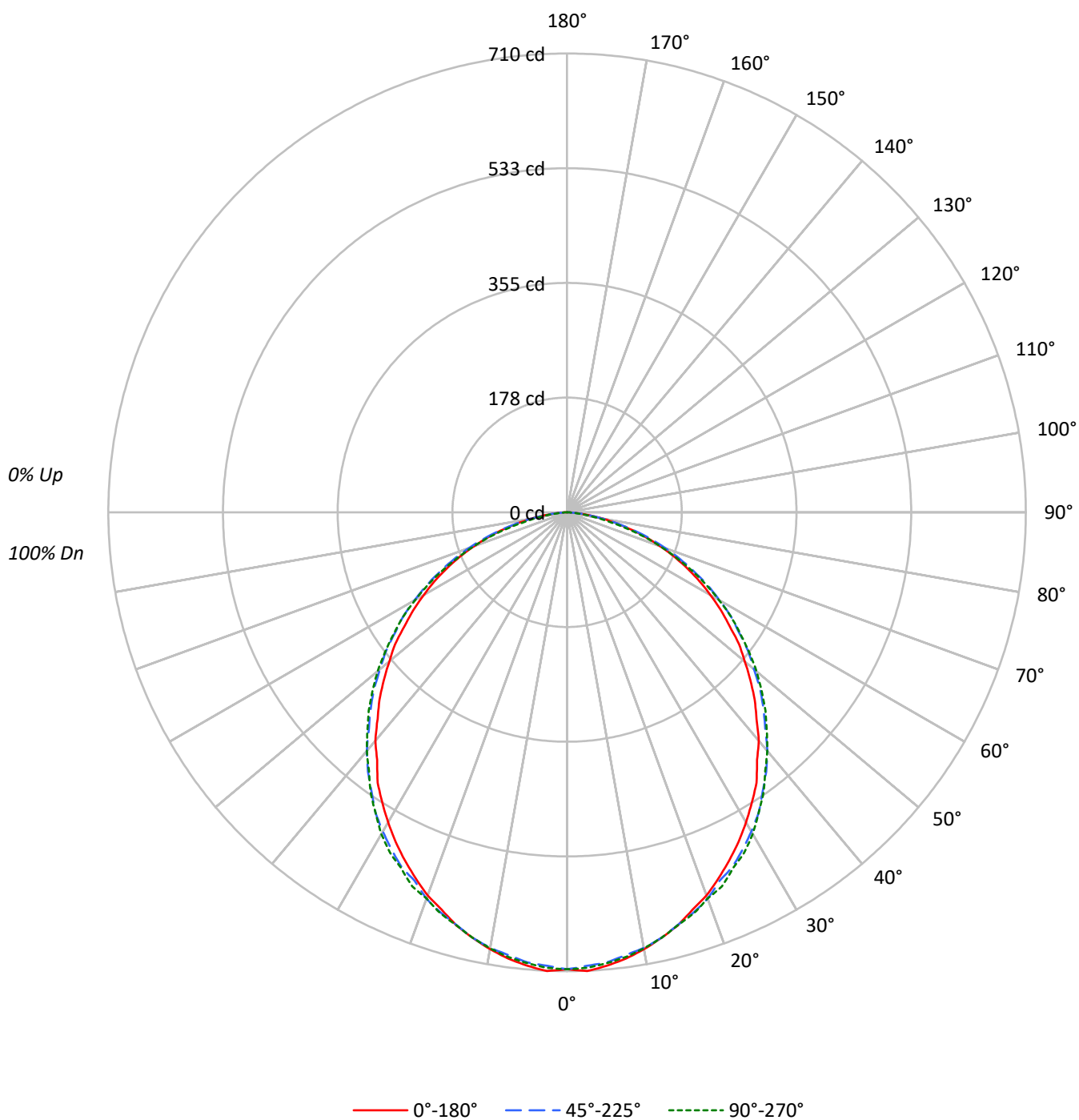
Lumens per Lamp: N/A
Luminaire Lumens: 1816.0 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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

TEST NUMBER: P485875

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-1STD-40-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P485875

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-1STD-40-120-EDD

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	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°	1903	1903	1903
5°	1902	1889	1892
10°	1876	1870	1872
15°	1844	1841	1843
20°	1807	1822	1821
25°	1764	1798	1804
30°	1721	1772	1786
35°	1679	1733	1741
40°	1621	1695	1693
45°	1562	1636	1652
50°	1503	1581	1602
55°	1440	1525	1534
60°	1379	1471	1461
65°	1307	1381	1354
70°	1205	1268	1210
75°	1065	1109	969
80°	857	869	677
85°	562	537	395



TEST NUMBER: P485875

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-1STD-40-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	3.7
10°-20°	186.9	10.3
20°-30°	278.2	15.3
30°-40°	327.5	18.0
40°-50°	328.3	18.1
50°-60°	287.9	15.9
60°-70°	210.5	11.6
70°-80°	108.5	6.0
80°-90°	21.8	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°	531.5	29.3
0°-40°	859.0	47.3
0°-60°	1475.2	81.2
0°-90°	1816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1816.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	707	707	707	707	707	
5°	704	700	699	704	700	67
15°	662	663	661	665	661	186
25°	594	597	606	614	608	274
35°	511	513	528	533	530	318
45°	410	412	430	435	434	316
55°	307	314	325	330	327	275
65°	205	210	217	216	213	203
75°	102	103	107	99	93	109
85°	18	18	17	14	13	24
90°	0	0	0	0	0	



TEST NUMBER: P485875

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-1STD-40-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	707.0	707.0	707.0	707.0	707.0
2.5°	710.5	707.0	702.4	706.2	705.5
5°	704.3	699.7	699.3	703.9	700.4
7.5°	696.6	695.8	691.2	696.2	694.3
10°	686.5	685.7	684.2	687.7	685.0
12.5°	674.5	673.8	674.5	676.5	674.5
15°	661.8	662.9	661.0	665.3	661.4
17.5°	644.8	645.9	649.8	651.3	651.0
20°	630.9	631.6	636.3	642.5	635.9
22.5°	612.7	614.6	616.9	628.2	626.6
25°	594.1	596.8	605.7	614.2	607.7
27.5°	574.8	577.5	588.3	594.5	593.7
30°	553.9	556.6	570.2	578.7	574.8
32.5°	532.3	536.9	551.6	559.0	551.6
35°	511.0	513.3	527.6	533.4	530.0
37.5°	482.8	491.7	506.0	509.9	503.7
40°	461.5	461.9	482.4	482.4	482.0
42.5°	434.1	440.3	453.8	461.2	457.3
45°	410.5	412.5	429.8	435.3	434.1
47.5°	384.6	392.4	405.1	411.3	408.2
50°	359.1	364.5	377.7	385.8	382.7
52.5°	335.5	339.8	353.3	358.0	354.9
55°	306.9	313.9	325.1	329.7	327.0
57.5°	282.2	287.2	301.1	302.7	301.1
60°	256.3	262.1	273.3	274.5	271.4
62.5°	231.5	235.4	245.5	245.8	242.4
65°	205.3	209.9	216.9	216.1	212.6
67.5°	179.4	182.5	189.0	186.3	182.5
70°	153.1	155.8	161.2	157.3	153.8
72.5°	127.6	129.5	134.1	128.3	124.1
75°	102.4	103.2	106.7	99.3	93.2
77.5°	77.7	78.5	80.4	73.1	66.1
80°	55.3	55.3	56.1	48.3	43.7
82.5°	34.8	34.8	34.4	28.6	25.9
85°	18.2	17.8	17.4	13.9	12.8
87.5°	6.6	6.6	5.4	5.0	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)