

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: P485873

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-1STD-35-120-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: P485873
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-35-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

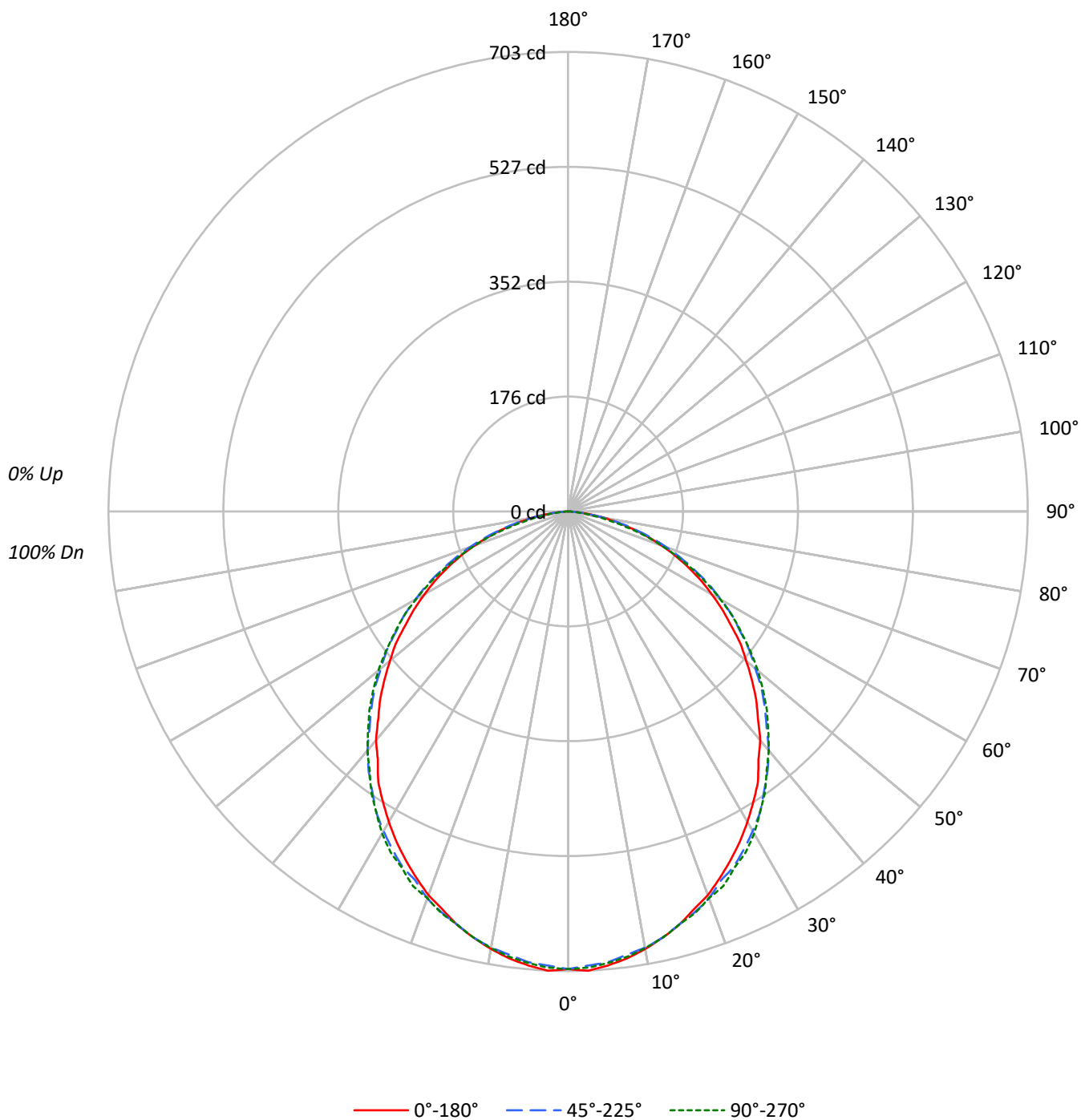
Lumens per Lamp: N/A
Luminaire Lumens: 1798.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P485873

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-1STD-35-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P485873

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-1STD-35-120-EDD

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°	1884	1884	1884
5°	1884	1870	1873
10°	1857	1851	1853
15°	1825	1823	1824
20°	1789	1804	1803
25°	1746	1781	1786
30°	1704	1754	1768
35°	1662	1716	1724
40°	1605	1678	1677
45°	1547	1620	1636
50°	1489	1565	1586
55°	1426	1510	1519
60°	1365	1456	1446
65°	1294	1367	1340
70°	1193	1256	1198
75°	1054	1098	959
80°	848	860	669
85°	556	531	389



TEST NUMBER: P485873

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-1STD-35-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	3.7
10°-20°	185.0	10.3
20°-30°	275.4	15.3
30°-40°	324.2	18.0
40°-50°	325.1	18.1
50°-60°	285.1	15.9
60°-70°	208.4	11.6
70°-80°	107.4	6.0
80°-90°	21.5	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°	526.2	29.3
0°-40°	850.5	47.3
0°-60°	1460.6	81.2
0°-90°	1798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1798.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	700	700	700	700	700	
5°	697	693	692	697	694	66
15°	655	656	654	659	655	184
25°	588	591	600	608	602	271
35°	506	508	522	528	525	315
45°	406	408	426	431	430	313
55°	304	311	322	326	324	273
65°	203	208	215	214	210	201
75°	101	102	106	98	92	107
85°	18	18	17	14	13	23
90°	0	0	0	0	0	



TEST NUMBER: P485873

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-1STD-35-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	700.0	700.0	700.0	700.0	700.0
2.5°	703.4	700.0	695.4	699.2	698.5
5°	697.3	692.7	692.3	696.9	693.5
7.5°	689.7	688.9	684.3	689.3	687.4
10°	679.7	679.0	677.4	680.9	678.2
12.5°	667.9	667.1	667.9	669.8	667.9
15°	655.2	656.4	654.5	658.7	654.8
17.5°	638.4	639.5	643.4	644.9	644.5
20°	624.6	625.4	630.0	636.1	629.6
22.5°	606.6	608.5	610.8	621.9	620.4
25°	588.2	590.9	599.7	608.1	601.6
27.5°	569.1	571.8	582.5	588.6	587.9
30°	548.4	551.1	564.5	572.9	569.1
32.5°	527.0	531.6	546.1	553.4	546.1
35°	506.0	508.3	522.4	528.2	524.7
37.5°	478.0	486.8	501.0	504.8	498.7
40°	457.0	457.4	477.6	477.6	477.3
42.5°	429.8	435.9	449.3	456.6	452.8
45°	406.5	408.4	425.6	430.9	429.8
47.5°	380.8	388.5	401.1	407.2	404.2
50°	355.6	360.9	373.9	382.0	378.9
52.5°	332.2	336.4	349.8	354.4	351.3
55°	303.9	310.8	321.9	326.5	323.8
57.5°	279.4	284.4	298.1	299.7	298.1
60°	253.7	259.5	270.6	271.7	268.7
62.5°	229.3	233.1	243.0	243.4	240.0
65°	203.2	207.8	214.7	213.9	210.5
67.5°	177.6	180.6	187.2	184.5	180.6
70°	151.6	154.2	159.6	155.8	152.3
72.5°	126.3	128.2	132.8	127.1	122.9
75°	101.4	102.2	105.6	98.4	92.2
77.5°	76.9	77.7	79.6	72.3	65.4
80°	54.7	54.7	55.5	47.8	43.2
82.5°	34.4	34.4	34.1	28.3	25.6
85°	18.0	17.6	17.2	13.8	12.6
87.5°	6.5	6.5	5.4	5.0	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)