

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: P485899

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2LO-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: P485899
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-40-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

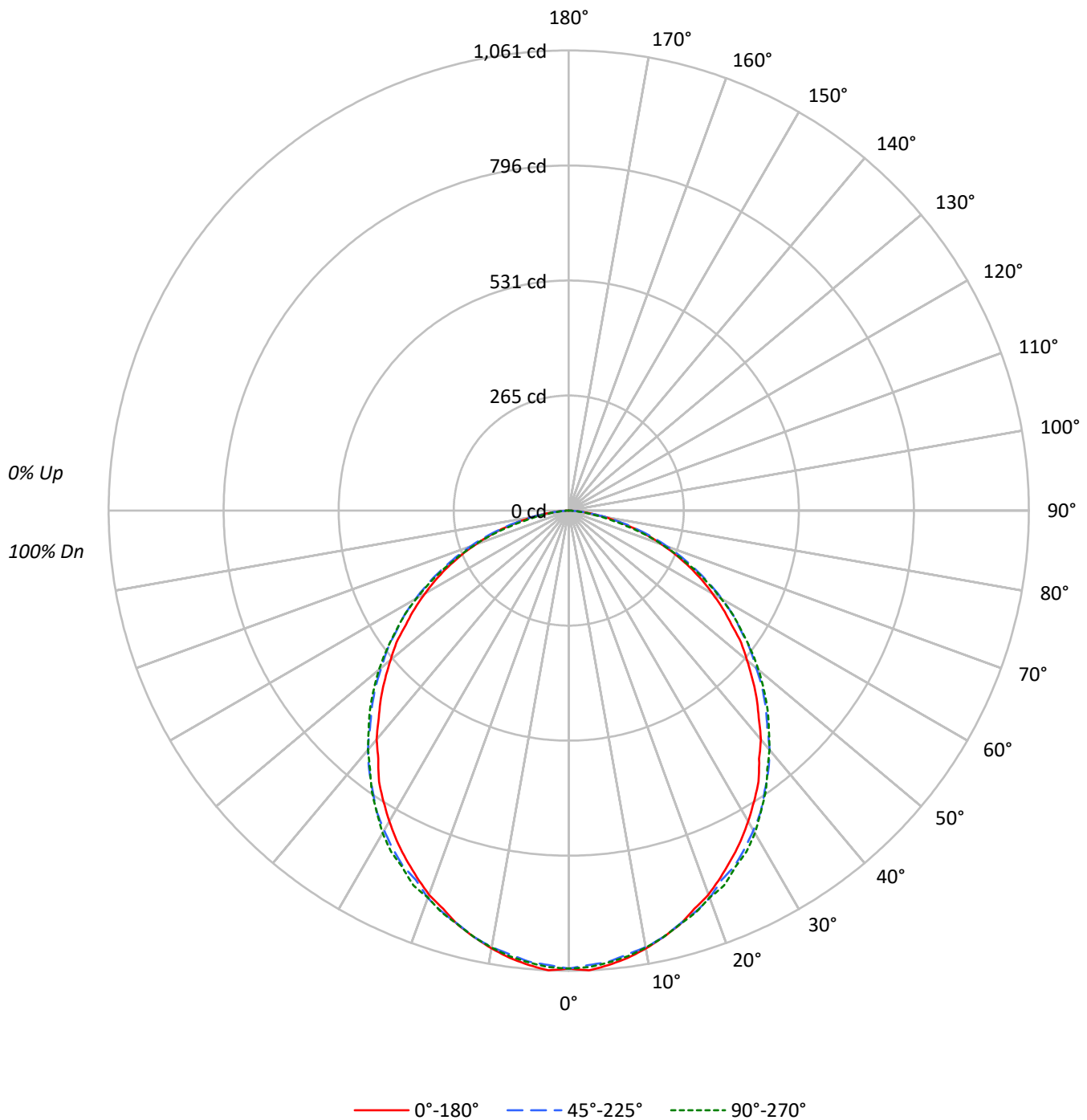
Lumens per Lamp: N/A
Luminaire Lumens: 2712.2 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P485899

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

Luminous Intensity Polar Plot





TEST NUMBER: P485899

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-2LO-40-120-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°	2841	2841	2841
5°	2841	2821	2826
10°	2802	2792	2795
15°	2754	2750	2752
20°	2698	2721	2720
25°	2635	2686	2695
30°	2571	2646	2668
35°	2507	2589	2600
40°	2421	2531	2529
45°	2333	2443	2467
50°	2245	2361	2393
55°	2151	2278	2291
60°	2060	2197	2181
65°	1952	2062	2022
70°	1799	1894	1808
75°	1591	1656	1446
80°	1280	1297	1010
85°	837	803	590



TEST NUMBER: P485899

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	3.7
10°-20°	279.1	10.3
20°-30°	415.5	15.3
30°-40°	489.1	18.0
40°-50°	490.3	18.1
50°-60°	430.0	15.9
60°-70°	314.4	11.6
70°-80°	162.0	6.0
80°-90°	32.5	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°	793.8	29.3
0°-40°	1282.9	47.3
0°-60°	2203.2	81.2
0°-90°	2712.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2712.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1052	1045	1044	1051	1046	100
15°	988	990	987	994	988	278
25°	887	891	905	917	908	409
35°	763	767	788	797	792	475
45°	613	616	642	650	648	472
55°	458	469	486	492	488	411
65°	307	314	324	323	318	303
75°	153	154	159	148	139	162
85°	27	27	26	21	19	35
90°	0	0	0	0	0	



TEST NUMBER: P485899

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.9	1055.9	1055.9	1055.9	1055.9
2.5°	1061.1	1055.9	1049.0	1054.8	1053.6
5°	1051.9	1045.0	1044.4	1051.3	1046.1
7.5°	1040.3	1039.2	1032.3	1039.8	1036.9
10°	1025.3	1024.2	1021.9	1027.1	1023.0
12.5°	1007.4	1006.3	1007.4	1010.3	1007.4
15°	988.4	990.1	987.2	993.6	987.8
17.5°	963.0	964.7	970.5	972.8	972.2
20°	942.2	943.3	950.3	959.5	949.7
22.5°	915.1	917.9	921.4	938.1	935.8
25°	887.3	891.4	904.7	917.4	907.5
27.5°	858.5	862.5	878.7	887.9	886.8
30°	827.3	831.3	851.5	864.2	858.5
32.5°	795.0	801.9	823.8	834.8	823.8
35°	763.2	766.7	788.0	796.7	791.5
37.5°	721.1	734.4	755.7	761.5	752.2
40°	689.3	689.9	720.5	720.5	719.9
42.5°	648.3	657.6	677.8	688.7	683.0
45°	613.1	616.0	642.0	650.1	648.3
47.5°	574.4	586.0	605.0	614.3	609.7
50°	536.3	544.4	564.0	576.2	571.5
52.5°	501.1	507.5	527.7	534.6	530.0
55°	458.4	468.8	485.5	492.5	488.4
57.5°	421.4	428.9	449.7	452.0	449.7
60°	382.8	391.4	408.2	409.9	405.3
62.5°	345.8	351.6	366.6	367.2	362.0
65°	306.6	313.5	323.9	322.7	317.5
67.5°	267.9	272.5	282.3	278.3	272.5
70°	228.6	232.7	240.7	235.0	229.8
72.5°	190.5	193.4	200.3	191.7	185.3
75°	153.0	154.1	159.3	148.4	139.1
77.5°	116.0	117.2	120.1	109.1	98.7
80°	82.6	82.6	83.7	72.2	65.2
82.5°	52.0	52.0	51.4	42.7	38.7
85°	27.1	26.6	26.0	20.8	19.1
87.5°	9.8	9.8	8.1	7.5	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)