

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: P485119

Luminaire Tested: **ORLG-12-4-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: P485119
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-12-4-INS-A125-LD4-1STD-40-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

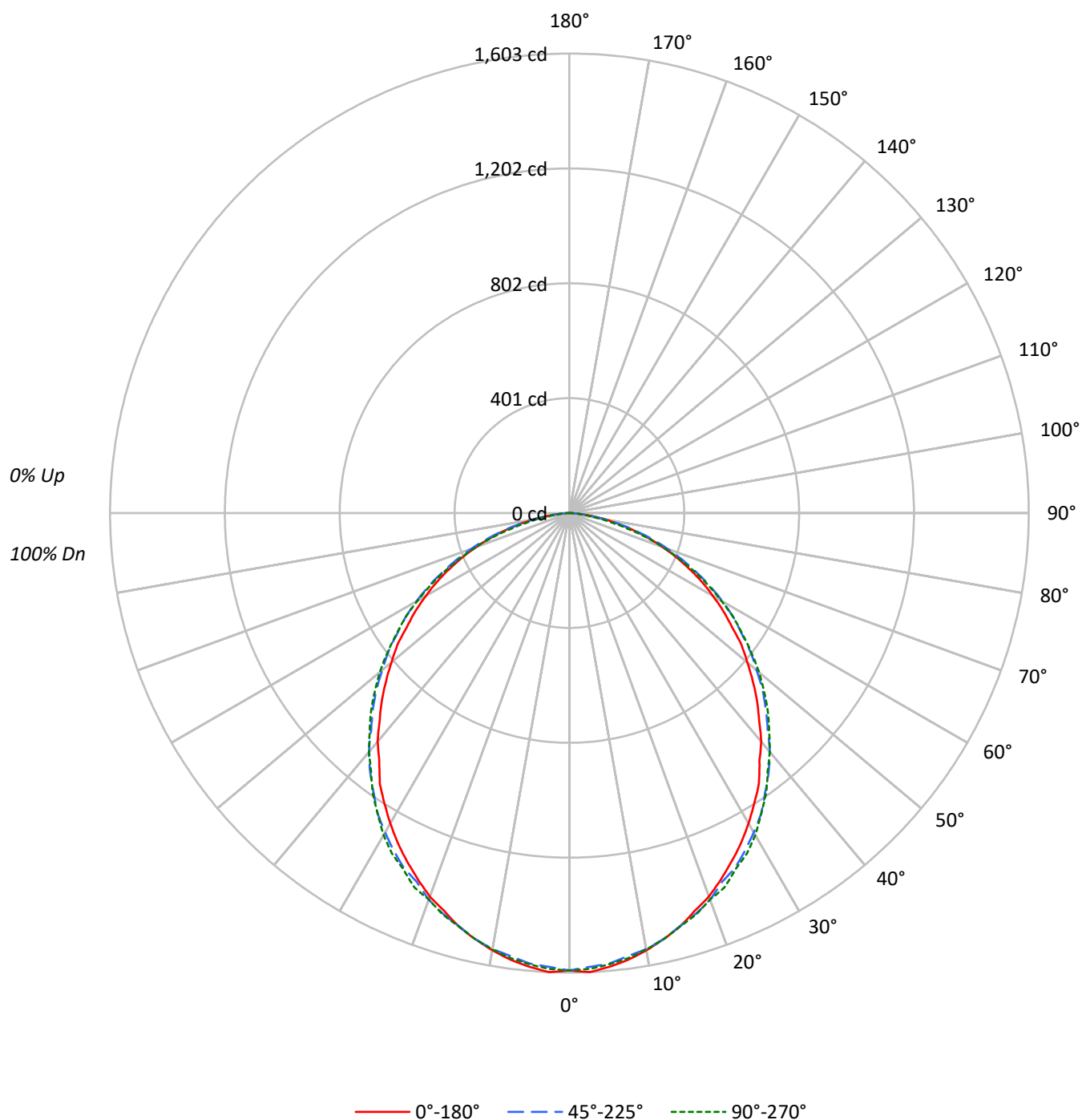
Lumens per Lamp: N/A
Luminaire Lumens: 4097.6 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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: P485119

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1STD-40-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P485119

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1STD-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°	4293	4293	4293
5°	4293	4262	4269
10°	4233	4218	4223
15°	4160	4155	4158
20°	4076	4111	4109
25°	3980	4058	4071
30°	3884	3998	4030
35°	3788	3911	3928
40°	3658	3824	3821
45°	3525	3691	3728
50°	3392	3568	3615
55°	3249	3441	3462
60°	3112	3319	3295
65°	2949	3116	3054
70°	2718	2862	2731
75°	2403	2503	2185
80°	1932	1960	1528
85°	1266	1210	889



TEST NUMBER: P485119

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1STD-40-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.9	3.7
10°-20°	421.6	10.3
20°-30°	627.7	15.3
30°-40°	738.9	18.0
40°-50°	740.8	18.1
50°-60°	649.6	15.9
60°-70°	475.0	11.6
70°-80°	244.8	6.0
80°-90°	49.1	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°	1199.3	29.3
0°-40°	1938.2	47.3
0°-60°	3328.7	81.2
0°-90°	4097.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4097.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1595	1595	1595	1595	1595	
5°	1589	1579	1578	1588	1580	150
15°	1493	1496	1492	1501	1492	420
25°	1341	1347	1367	1386	1371	618
35°	1153	1158	1191	1204	1196	718
45°	926	931	970	982	980	714
55°	692	708	734	744	738	622
65°	463	474	489	488	480	458
75°	231	233	241	224	210	245
85°	41	40	39	31	29	53
90°	0	0	0	0	0	



TEST NUMBER: P485119

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1STD-40-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1595.3	1595.3	1595.3	1595.3	1595.3
2.5°	1603.1	1595.3	1584.8	1593.5	1591.8
5°	1589.2	1578.7	1577.8	1588.3	1580.5
7.5°	1571.7	1570.0	1559.5	1570.9	1566.5
10°	1549.1	1547.3	1543.8	1551.7	1545.6
12.5°	1522.0	1520.3	1522.0	1526.4	1522.0
15°	1493.2	1495.9	1491.5	1501.1	1492.4
17.5°	1454.9	1457.5	1466.2	1469.7	1468.8
20°	1423.5	1425.2	1435.7	1449.6	1434.8
22.5°	1382.5	1386.8	1392.1	1417.4	1413.9
25°	1340.6	1346.7	1366.8	1386.0	1371.1
27.5°	1297.0	1303.1	1327.5	1341.5	1339.7
30°	1249.9	1256.0	1286.5	1305.7	1297.0
32.5°	1201.0	1211.5	1244.7	1261.2	1244.7
35°	1153.1	1158.3	1190.6	1203.7	1195.8
37.5°	1089.4	1109.5	1141.7	1150.5	1136.5
40°	1041.4	1042.3	1088.5	1088.5	1087.7
42.5°	979.5	993.5	1024.0	1040.6	1031.8
45°	926.3	930.7	969.9	982.1	979.5
47.5°	867.9	885.3	914.1	928.0	921.1
50°	810.3	822.5	852.2	870.5	863.5
52.5°	757.1	766.7	797.2	807.7	800.7
55°	692.5	708.2	733.5	744.0	737.9
57.5°	636.7	648.1	679.5	682.9	679.5
60°	578.3	591.4	616.7	619.3	612.3
62.5°	522.5	531.2	553.9	554.7	546.9
65°	463.1	473.6	489.3	487.6	479.7
67.5°	404.7	411.7	426.5	420.4	411.7
70°	345.4	351.5	363.7	355.0	347.1
72.5°	287.8	292.2	302.7	289.6	280.0
75°	231.1	232.9	240.7	224.2	210.2
77.5°	175.3	177.1	181.4	164.8	149.1
80°	124.7	124.7	126.5	109.0	98.6
82.5°	78.5	78.5	77.6	64.5	58.4
85°	41.0	40.1	39.2	31.4	28.8
87.5°	14.8	14.8	12.2	11.3	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)