

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: P485966

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4LO-30-120-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: P485966
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-LD4-4LO-30-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

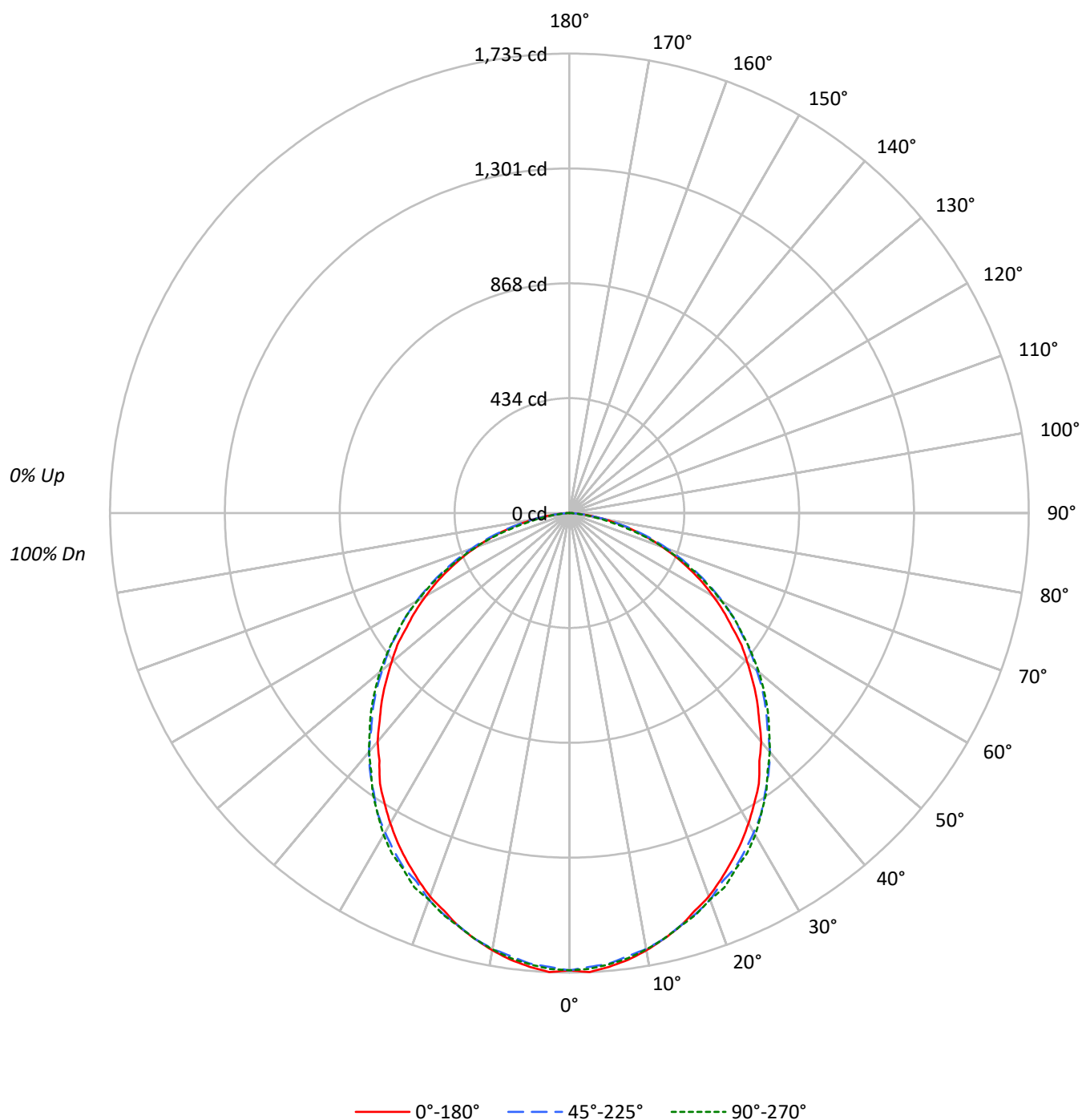
Lumens per Lamp: N/A
Luminaire Lumens: 4434.6 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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			
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°	4646	4646	4646
5°	4646	4613	4620
10°	4581	4565	4571
15°	4502	4497	4500
20°	4411	4449	4447
25°	4308	4392	4406
30°	4203	4326	4362
35°	4099	4233	4252
40°	3959	4138	4135
45°	3815	3995	4034
50°	3671	3861	3912
55°	3516	3725	3747
60°	3368	3592	3567
65°	3191	3372	3306
70°	2941	3097	2956
75°	2600	2708	2365
80°	2092	2122	1654
85°	1371	1312	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	3.7
10°-20°	456.3	10.3
20°-30°	679.4	15.3
30°-40°	799.7	18.0
40°-50°	801.8	18.1
50°-60°	703.1	15.9
60°-70°	514.1	11.6
70°-80°	264.9	6.0
80°-90°	53.2	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°	1297.9	29.3
0°-40°	2097.6	47.3
0°-60°	3602.4	81.2
0°-90°	4434.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4434.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1726	1726	1726	1726	1726	
5°	1720	1709	1708	1719	1710	163
15°	1616	1619	1614	1624	1615	455
25°	1451	1458	1479	1500	1484	668
35°	1248	1254	1288	1303	1294	777
45°	1002	1007	1050	1063	1060	773
55°	750	766	794	805	799	673
65°	501	513	530	528	519	496
75°	250	252	260	243	228	265
85°	44	43	42	34	31	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1735.0	1726.5	1715.2	1724.6	1722.7
5°	1719.9	1708.6	1707.6	1718.9	1710.4
7.5°	1701.0	1699.1	1687.8	1700.1	1695.3
10°	1676.5	1674.6	1670.8	1679.3	1672.7
12.5°	1647.2	1645.3	1647.2	1651.9	1647.2
15°	1616.0	1618.9	1614.2	1624.5	1615.1
17.5°	1574.5	1577.3	1586.8	1590.6	1589.6
20°	1540.5	1542.4	1553.7	1568.8	1552.8
22.5°	1496.2	1500.9	1506.5	1533.9	1530.1
25°	1450.9	1457.5	1479.2	1499.9	1483.9
27.5°	1403.7	1410.3	1436.7	1451.8	1449.9
30°	1352.7	1359.3	1392.3	1413.1	1403.7
32.5°	1299.8	1311.2	1347.0	1365.0	1347.0
35°	1247.9	1253.6	1288.5	1302.7	1294.2
37.5°	1179.0	1200.7	1235.6	1245.1	1230.0
40°	1127.1	1128.0	1178.1	1178.1	1177.1
42.5°	1060.1	1075.2	1108.2	1126.1	1116.7
45°	1002.5	1007.2	1049.7	1062.9	1060.1
47.5°	939.2	958.1	989.3	1004.4	996.8
50°	876.9	890.1	922.2	942.1	934.5
52.5°	819.4	829.7	862.8	874.1	866.5
55°	749.5	766.5	793.9	805.2	798.6
57.5°	689.1	701.4	735.3	739.1	735.3
60°	625.8	640.0	667.4	670.2	662.7
62.5°	565.4	574.9	599.4	600.4	591.9
65°	501.2	512.6	529.6	527.7	519.2
67.5°	438.0	445.5	461.6	455.0	445.5
70°	373.8	380.4	393.6	384.2	375.7
72.5°	311.5	316.2	327.6	313.4	303.0
75°	250.1	252.0	260.5	242.6	227.5
77.5°	189.7	191.6	196.3	178.4	161.4
80°	135.0	135.0	136.9	118.0	106.7
82.5°	85.0	85.0	84.0	69.9	63.2
85°	44.4	43.4	42.5	34.0	31.2
87.5°	16.0	16.0	13.2	12.3	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)