

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: P485967

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4LO-30-120-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: P485967
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
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

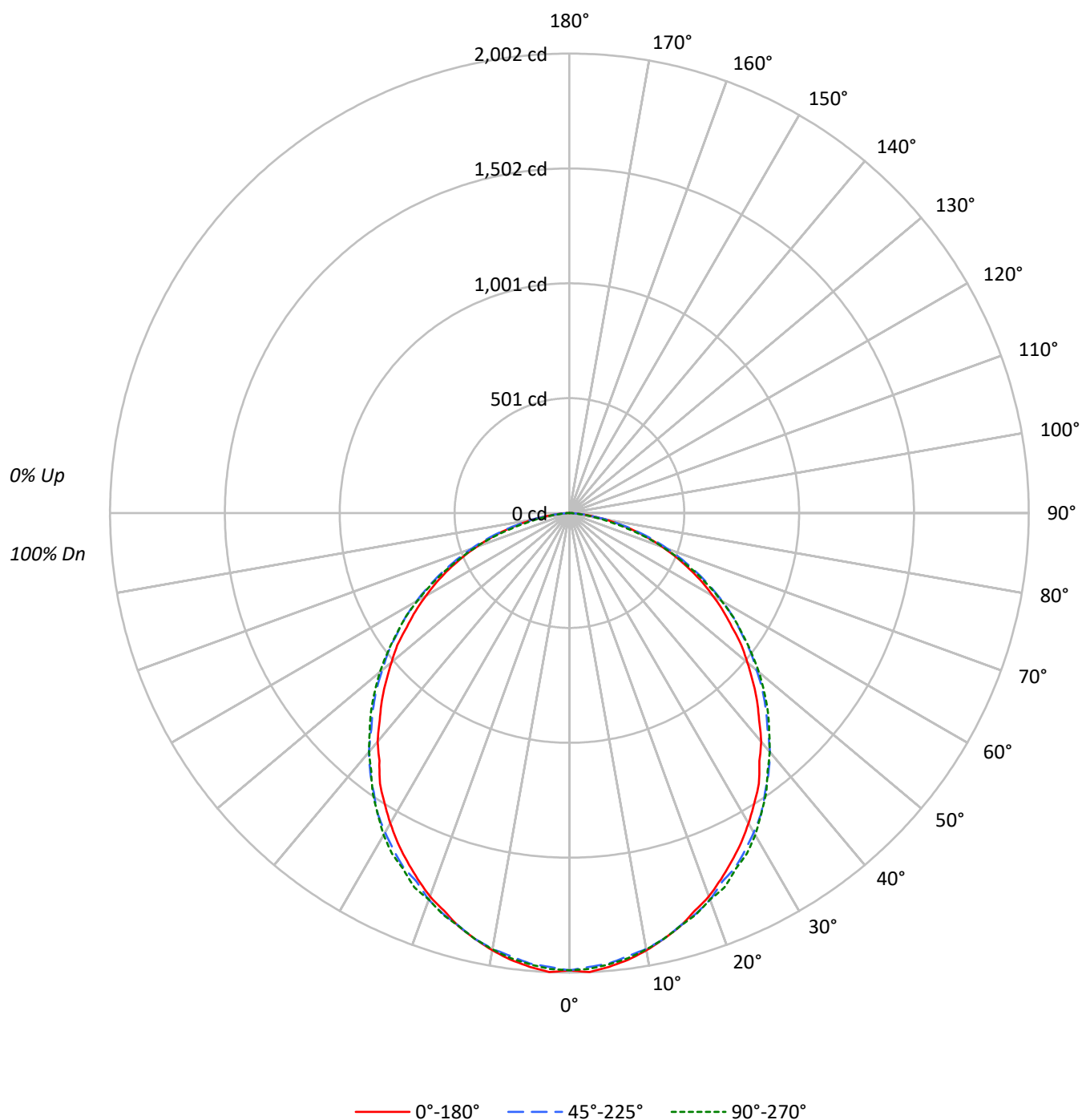
Lumens per Lamp: N/A
Luminaire Lumens: 5116.9 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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					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°	5361	5361	5361
5°	5361	5322	5331
10°	5286	5268	5274
15°	5195	5189	5192
20°	5090	5134	5131
25°	4971	5068	5084
30°	4850	4992	5033
35°	4730	4884	4906
40°	4568	4775	4771
45°	4402	4609	4655
50°	4236	4455	4514
55°	4057	4297	4323
60°	3886	4145	4115
65°	3683	3890	3815
70°	3393	3574	3411
75°	3001	3125	2729
80°	2414	2447	1908
85°	1581	1513	1108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	3.7
10°-20°	526.5	10.3
20°-30°	783.9	15.3
30°-40°	922.7	18.0
40°-50°	925.1	18.1
50°-60°	811.2	15.9
60°-70°	593.2	11.6
70°-80°	305.7	6.0
80°-90°	61.3	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°	1497.6	29.3
0°-40°	2420.3	47.3
0°-60°	4156.7	81.2
0°-90°	5116.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5116.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1992	1992	1992	1992	1992	
5°	1984	1971	1970	1983	1974	188
15°	1865	1868	1862	1874	1864	525
25°	1674	1682	1707	1731	1712	771
35°	1440	1446	1487	1503	1493	897
45°	1157	1162	1211	1226	1223	891
55°	865	884	916	929	922	776
65°	578	591	611	609	599	572
75°	289	291	301	280	262	306
85°	51	50	49	39	36	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1992.1	1992.1	1992.1	1992.1	1992.1
2.5°	2001.9	1992.1	1979.1	1989.9	1987.8
5°	1984.5	1971.4	1970.3	1983.4	1973.6
7.5°	1962.7	1960.5	1947.5	1961.6	1956.2
10°	1934.4	1932.2	1927.9	1937.7	1930.0
12.5°	1900.6	1898.5	1900.6	1906.1	1900.6
15°	1864.7	1868.0	1862.5	1874.5	1863.6
17.5°	1816.8	1820.0	1830.9	1835.3	1834.2
20°	1777.6	1779.7	1792.8	1810.2	1791.7
22.5°	1726.4	1731.8	1738.3	1769.9	1765.6
25°	1674.1	1681.7	1706.8	1730.7	1712.2
27.5°	1619.6	1627.2	1657.7	1675.2	1673.0
30°	1560.8	1568.4	1606.6	1630.5	1619.6
32.5°	1499.8	1512.9	1554.3	1575.0	1554.3
35°	1439.9	1446.4	1486.7	1503.1	1493.3
37.5°	1360.4	1385.4	1425.7	1436.6	1419.2
40°	1300.5	1301.6	1359.3	1359.3	1358.2
42.5°	1223.2	1240.6	1278.7	1299.4	1288.5
45°	1156.7	1162.2	1211.2	1226.4	1223.2
47.5°	1083.7	1105.5	1141.5	1158.9	1150.2
50°	1011.9	1027.1	1064.1	1087.0	1078.3
52.5°	945.4	957.4	995.5	1008.6	999.9
55°	864.8	884.4	916.0	929.1	921.5
57.5°	795.1	809.3	848.5	852.8	848.5
60°	722.1	738.5	770.1	773.3	764.6
62.5°	652.4	663.3	691.6	692.7	682.9
65°	578.4	591.4	611.0	608.9	599.1
67.5°	505.4	514.1	532.6	525.0	514.1
70°	431.3	438.9	454.2	443.3	433.5
72.5°	359.4	364.9	377.9	361.6	349.6
75°	288.6	290.8	300.6	279.9	262.5
77.5°	218.9	221.1	226.6	205.9	186.3
80°	155.8	155.8	157.9	136.1	123.1
82.5°	98.0	98.0	96.9	80.6	73.0
85°	51.2	50.1	49.0	39.2	35.9
87.5°	18.5	18.5	15.2	14.2	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)