

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: P485885

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2HI-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: P485885
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-LD4-2HI-35-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

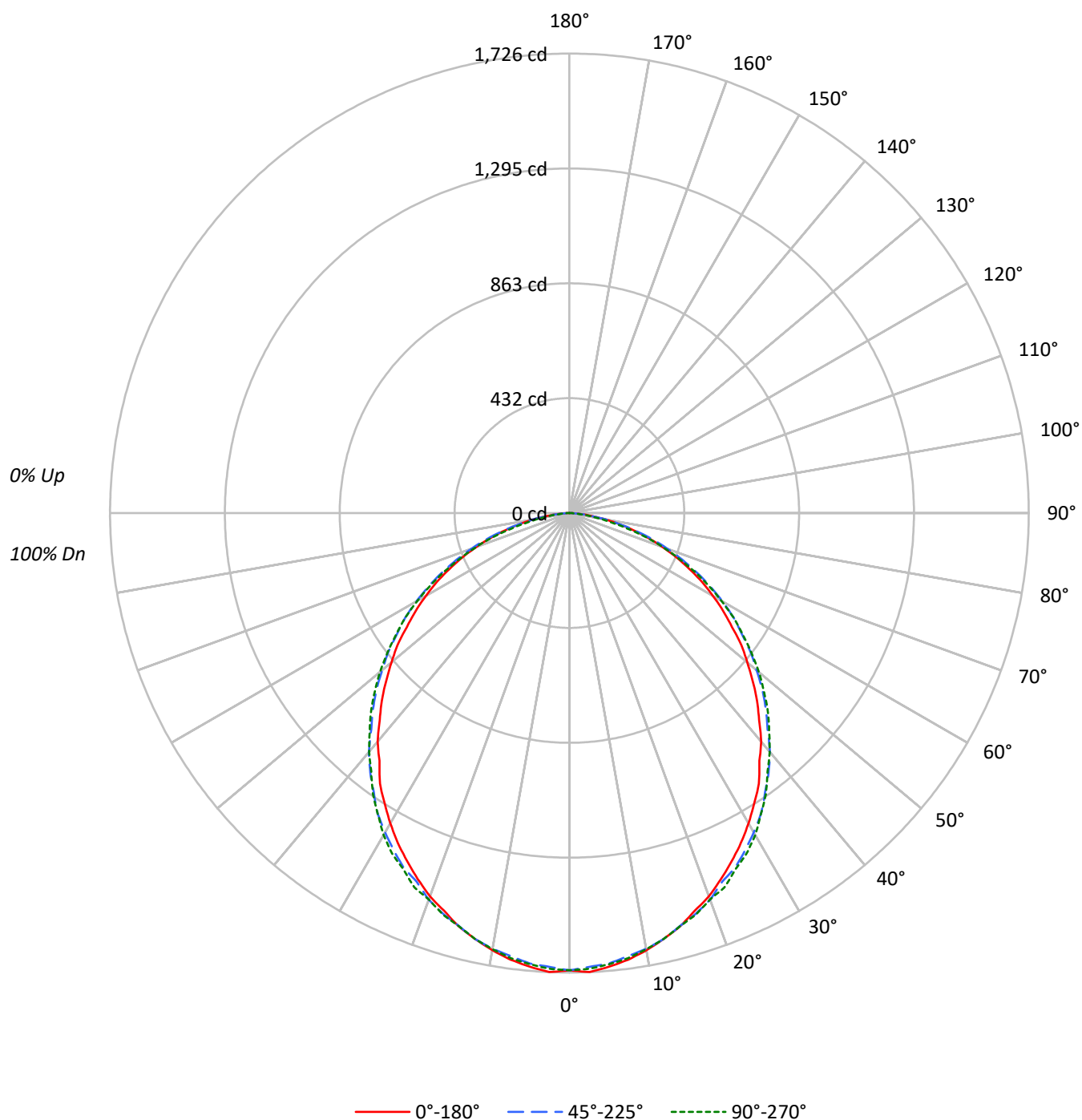
Lumens per Lamp: N/A
Luminaire Lumens: 4410.9 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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°	4621	4621	4621
5°	4621	4588	4596
10°	4556	4541	4546
15°	4478	4473	4476
20°	4388	4426	4423
25°	4285	4369	4382
30°	4181	4303	4338
35°	4077	4210	4229
40°	3938	4116	4113
45°	3795	3973	4013
50°	3651	3840	3891
55°	3498	3704	3727
60°	3350	3573	3547
65°	3175	3354	3288
70°	2925	3080	2940
75°	2587	2694	2353
80°	2081	2109	1644
85°	1362	1306	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	3.7
10°-20°	453.9	10.3
20°-30°	675.7	15.3
30°-40°	795.4	18.0
40°-50°	797.5	18.1
50°-60°	699.3	15.9
60°-70°	511.3	11.6
70°-80°	263.5	6.0
80°-90°	52.9	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°	1291.0	29.3
0°-40°	2086.4	47.3
0°-60°	3583.1	81.2
0°-90°	4410.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4410.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1717	1717	1717	1717	1717	
5°	1711	1699	1698	1710	1701	162
15°	1607	1610	1606	1616	1606	452
25°	1443	1450	1471	1492	1476	665
35°	1241	1247	1282	1296	1287	773
45°	997	1002	1044	1057	1054	768
55°	746	762	790	801	794	669
65°	499	510	527	525	516	493
75°	249	251	259	241	226	264
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°	1717.3	1717.3	1717.3	1717.3	1717.3
2.5°	1725.7	1717.3	1706.0	1715.4	1713.5
5°	1710.7	1699.4	1698.5	1709.8	1701.3
7.5°	1691.9	1690.0	1678.8	1691.0	1686.3
10°	1667.5	1665.6	1661.9	1670.3	1663.7
12.5°	1638.4	1636.5	1638.4	1643.1	1638.4
15°	1607.4	1610.2	1605.5	1615.9	1606.5
17.5°	1566.1	1568.9	1578.3	1582.1	1581.1
20°	1532.3	1534.2	1545.4	1560.5	1544.5
22.5°	1488.2	1492.9	1498.5	1525.7	1522.0
25°	1443.1	1449.7	1471.3	1491.9	1476.0
27.5°	1396.2	1402.7	1429.0	1444.0	1442.2
30°	1345.5	1352.0	1384.9	1405.5	1396.2
32.5°	1292.9	1304.1	1339.8	1357.7	1339.8
35°	1241.2	1246.9	1281.6	1295.7	1287.2
37.5°	1172.7	1194.3	1229.0	1238.4	1223.4
40°	1121.1	1122.0	1171.8	1171.8	1170.8
42.5°	1054.4	1069.4	1102.3	1120.1	1110.7
45°	997.1	1001.8	1044.1	1057.2	1054.4
47.5°	934.2	953.0	984.0	999.0	991.5
50°	872.2	885.4	917.3	937.0	929.5
52.5°	815.0	825.3	858.2	869.4	861.9
55°	745.5	762.4	789.6	800.9	794.3
57.5°	685.4	697.6	731.4	735.2	731.4
60°	622.5	636.6	663.8	666.6	659.1
62.5°	562.4	571.8	596.2	597.1	588.7
65°	498.6	509.8	526.7	524.8	516.4
67.5°	435.7	443.2	459.1	452.6	443.2
70°	371.8	378.4	391.5	382.1	373.7
72.5°	309.8	314.5	325.8	311.7	301.4
75°	248.8	250.7	259.1	241.3	226.3
77.5°	188.7	190.6	195.3	177.5	160.6
80°	134.3	134.3	136.1	117.4	106.1
82.5°	84.5	84.5	83.6	69.5	62.9
85°	44.1	43.2	42.3	33.8	31.0
87.5°	16.0	16.0	13.1	12.2	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)