

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: P485963

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4LO-20-120-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: P485963
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-20-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

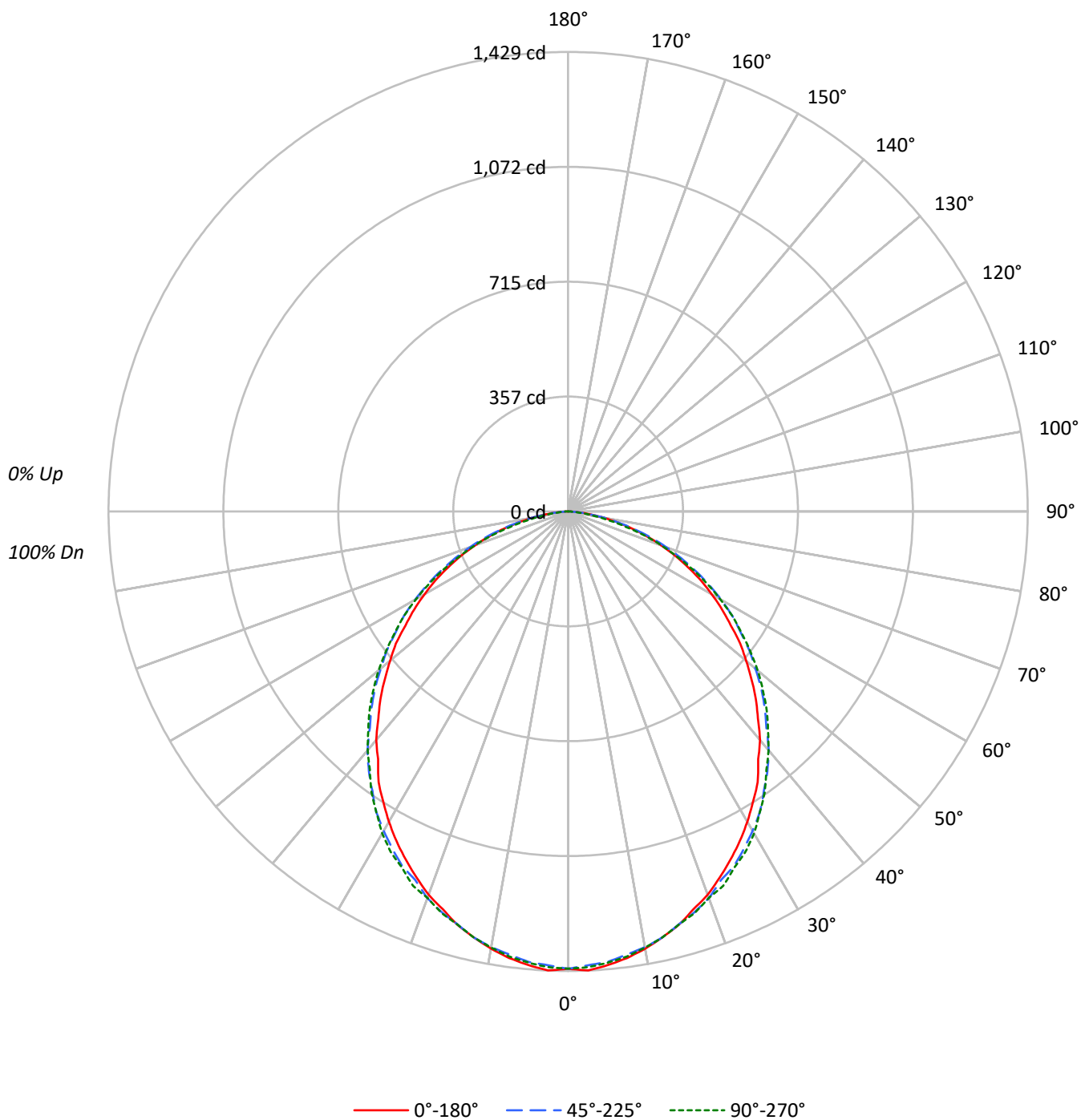
Lumens per Lamp: N/A
Luminaire Lumens: 3652.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
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°	3826	3826	3826
5°	3826	3799	3805
10°	3772	3760	3764
15°	3708	3703	3706
20°	3633	3664	3662
25°	3548	3617	3628
30°	3462	3563	3592
35°	3376	3486	3501
40°	3261	3408	3405
45°	3142	3290	3322
50°	3023	3180	3222
55°	2896	3067	3086
60°	2774	2958	2937
65°	2628	2777	2723
70°	2422	2551	2434
75°	2142	2231	1947
80°	1723	1746	1361
85°	1127	1081	794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	3.7
10°-20°	375.8	10.3
20°-30°	559.5	15.3
30°-40°	658.5	18.0
40°-50°	660.3	18.1
50°-60°	579.0	15.9
60°-70°	423.4	11.6
70°-80°	218.2	6.0
80°-90°	43.8	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°	1068.9	29.3
0°-40°	1727.4	47.3
0°-60°	2966.7	81.2
0°-90°	3652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1422	1422	1422	1422	1422	
5°	1416	1407	1406	1416	1409	134
15°	1331	1333	1329	1338	1330	375
25°	1195	1200	1218	1235	1222	550
35°	1028	1032	1061	1073	1066	640
45°	826	830	864	875	873	636
55°	617	631	654	663	658	554
65°	413	422	436	434	428	408
75°	206	208	215	200	187	218
85°	36	36	35	28	26	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1421.8	1421.8	1421.8	1421.8	1421.8
2.5°	1428.8	1421.8	1412.5	1420.3	1418.7
5°	1416.4	1407.0	1406.3	1415.6	1408.6
7.5°	1400.8	1399.3	1389.9	1400.0	1396.2
10°	1380.6	1379.1	1375.9	1382.9	1377.5
12.5°	1356.5	1355.0	1356.5	1360.4	1356.5
15°	1330.9	1333.2	1329.3	1337.8	1330.1
17.5°	1296.6	1299.0	1306.8	1309.9	1309.1
20°	1268.7	1270.2	1279.5	1292.0	1278.8
22.5°	1232.1	1236.0	1240.7	1263.2	1260.1
25°	1194.8	1200.3	1218.1	1235.2	1222.0
27.5°	1155.9	1161.4	1183.2	1195.6	1194.0
30°	1114.0	1119.4	1146.6	1163.7	1155.9
32.5°	1070.4	1079.8	1109.3	1124.1	1109.3
35°	1027.7	1032.3	1061.1	1072.8	1065.8
37.5°	970.9	988.8	1017.6	1025.3	1012.9
40°	928.2	929.0	970.2	970.2	969.4
42.5°	873.0	885.4	912.6	927.4	919.6
45°	825.6	829.5	864.4	875.3	873.0
47.5°	773.5	789.0	814.7	827.1	820.9
50°	722.2	733.1	759.5	775.8	769.6
52.5°	674.8	683.3	710.5	719.8	713.6
55°	617.2	631.2	653.8	663.1	657.7
57.5°	567.5	577.6	605.6	608.7	605.6
60°	515.4	527.1	549.6	551.9	545.7
62.5°	465.6	473.4	493.6	494.4	487.4
65°	412.8	422.1	436.1	434.5	427.6
67.5°	360.7	366.9	380.1	374.7	366.9
70°	307.8	313.3	324.2	316.4	309.4
72.5°	256.5	260.4	269.7	258.1	249.5
75°	206.0	207.6	214.6	199.8	187.3
77.5°	156.3	157.8	161.7	146.9	132.9
80°	111.2	111.2	112.7	97.2	87.8
82.5°	70.0	70.0	69.2	57.5	52.1
85°	36.5	35.8	35.0	28.0	25.7
87.5°	13.2	13.2	10.9	10.1	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)