

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: P485935

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3LO-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: P485935
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-LD4-3LO-40-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

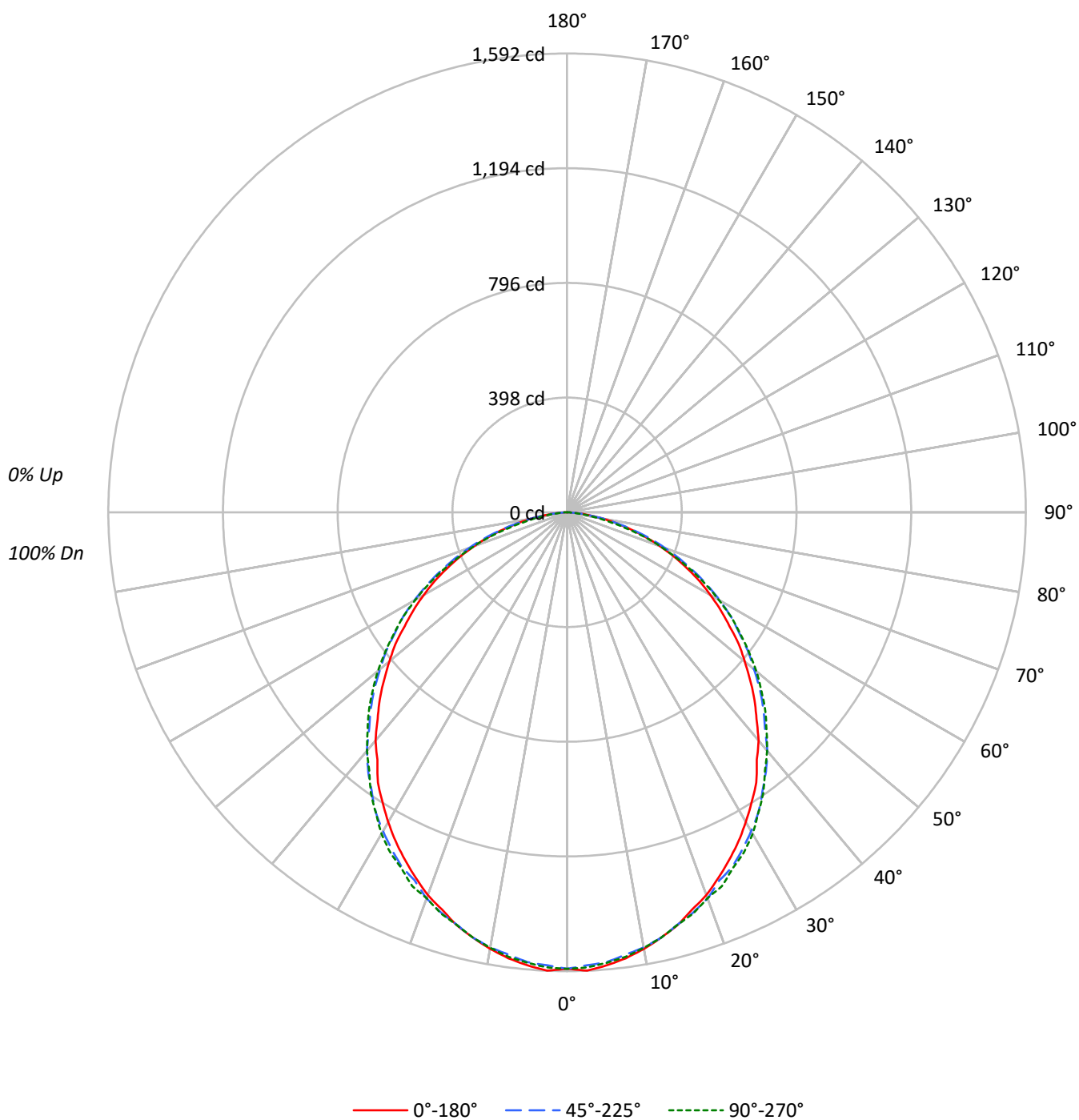
Lumens per Lamp: N/A
Luminaire Lumens: 4068.2 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	4262	4262	4262
5°	4262	4232	4239
10°	4202	4188	4193
15°	4130	4125	4128
20°	4047	4082	4079
25°	3952	4029	4042
30°	3856	3969	4001
35°	3761	3883	3900
40°	3632	3796	3793
45°	3500	3664	3701
50°	3368	3542	3589
55°	3226	3417	3437
60°	3090	3295	3272
65°	2928	3093	3033
70°	2698	2841	2712
75°	2386	2485	2170
80°	1918	1946	1517
85°	1257	1204	883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	3.7
10°-20°	418.6	10.3
20°-30°	623.2	15.3
30°-40°	733.6	18.0
40°-50°	735.5	18.1
50°-60°	645.0	15.9
60°-70°	471.6	11.6
70°-80°	243.1	6.0
80°-90°	48.8	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°	1190.7	29.3
0°-40°	1924.3	47.3
0°-60°	3304.7	81.2
0°-90°	4068.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4068.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1578	1567	1566	1577	1569	149
15°	1482	1485	1481	1490	1482	417
25°	1331	1337	1357	1376	1361	613
35°	1145	1150	1182	1195	1187	713
45°	920	924	963	975	972	709
55°	688	703	728	739	733	617
65°	460	470	486	484	476	455
75°	230	231	239	223	209	243
85°	41	40	39	31	29	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1583.8	1583.8	1583.8	1583.8	1583.8
2.5°	1591.6	1583.8	1573.4	1582.1	1580.4
5°	1577.8	1567.4	1566.5	1576.9	1569.1
7.5°	1560.5	1558.7	1548.3	1559.6	1555.3
10°	1537.9	1536.2	1532.7	1540.5	1534.5
12.5°	1511.1	1509.4	1511.1	1515.4	1511.1
15°	1482.5	1485.1	1480.8	1490.3	1481.7
17.5°	1444.4	1447.0	1455.7	1459.1	1458.3
20°	1413.2	1415.0	1425.4	1439.2	1424.5
22.5°	1372.5	1376.9	1382.1	1407.2	1403.7
25°	1331.0	1337.0	1357.0	1376.0	1361.3
27.5°	1287.7	1293.7	1318.0	1331.8	1330.1
30°	1240.9	1247.0	1277.3	1296.3	1287.7
32.5°	1192.4	1202.8	1235.7	1252.2	1235.7
35°	1144.8	1150.0	1182.0	1195.0	1187.2
37.5°	1081.6	1101.5	1133.5	1142.2	1128.3
40°	1034.0	1034.8	1080.7	1080.7	1079.9
42.5°	972.5	986.3	1016.6	1033.1	1024.4
45°	919.6	924.0	962.9	975.1	972.5
47.5°	861.6	878.9	907.5	921.4	914.5
50°	804.5	816.6	846.0	864.2	857.3
52.5°	751.7	761.2	791.5	801.9	795.0
55°	687.6	703.2	728.3	738.7	732.6
57.5°	632.2	643.4	674.6	678.0	674.6
60°	574.1	587.1	612.2	614.8	607.9
62.5°	518.7	527.4	549.9	550.8	543.0
65°	459.8	470.2	485.8	484.1	476.3
67.5°	401.8	408.7	423.5	417.4	408.7
70°	342.9	349.0	361.1	352.4	344.7
72.5°	285.8	290.1	300.5	287.5	278.0
75°	229.5	231.2	239.0	222.6	208.7
77.5°	174.1	175.8	180.1	163.7	148.1
80°	123.8	123.8	125.6	108.2	97.9
82.5°	77.9	77.9	77.1	64.1	58.0
85°	40.7	39.8	39.0	31.2	28.6
87.5°	14.7	14.7	12.1	11.3	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)