

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: P485117

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1STD-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: P485117
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-12-4-INS-A125-LD4-1STD-35-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

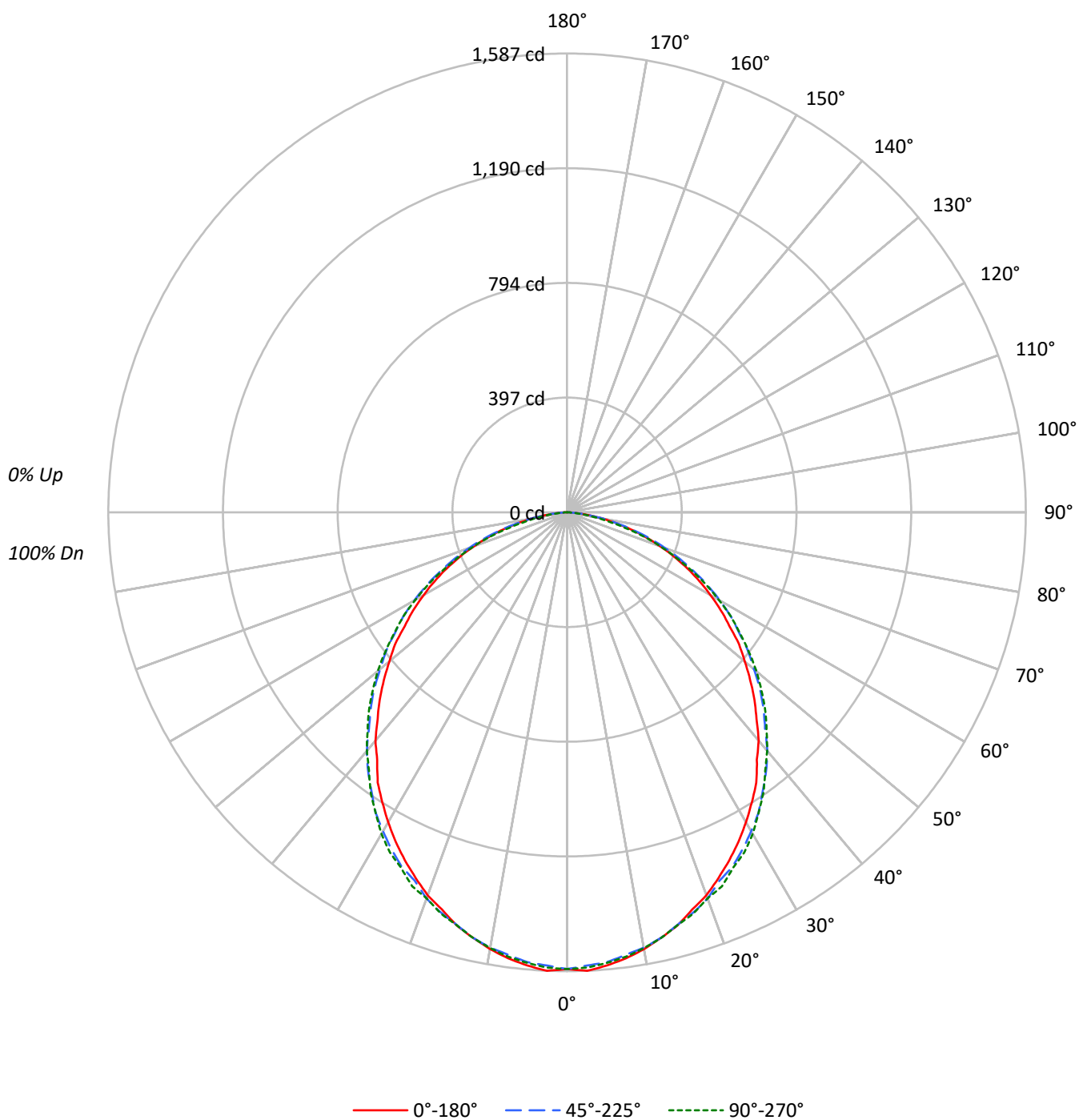
Lumens per Lamp: N/A
Luminaire Lumens: 4057.0 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		85
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		60
4	83	72	63	57	81	70	62	56	68	61	55		66	59	55		52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		45
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		39
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		35
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		31
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4250	4250	4250
5°	4250	4220	4227
10°	4191	4177	4182
15°	4119	4114	4116
20°	4036	4070	4068
25°	3941	4018	4031
30°	3845	3958	3990
35°	3750	3872	3890
40°	3622	3786	3783
45°	3490	3655	3691
50°	3359	3532	3579
55°	3217	3407	3428
60°	3082	3286	3263
65°	2920	3085	3025
70°	2691	2833	2704
75°	2379	2478	2164
80°	1914	1940	1512
85°	1254	1201	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	3.7
10°-20°	417.5	10.3
20°-30°	621.5	15.3
30°-40°	731.6	18.0
40°-50°	733.5	18.1
50°-60°	643.2	15.9
60°-70°	470.3	11.6
70°-80°	242.4	6.0
80°-90°	48.6	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°	1187.4	29.3
0°-40°	1919.0	47.3
0°-60°	3295.6	81.2
0°-90°	4057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4057.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1573	1563	1562	1573	1565	149
15°	1478	1481	1477	1486	1478	416
25°	1327	1333	1353	1372	1358	611
35°	1142	1147	1179	1192	1184	711
45°	917	921	960	972	970	707
55°	686	701	726	737	731	616
65°	459	469	484	483	475	454
75°	229	231	238	222	208	243
85°	41	40	39	31	28	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1579.5	1579.5	1579.5	1579.5	1579.5
2.5°	1587.3	1579.5	1569.1	1577.8	1576.0
5°	1573.4	1563.1	1562.2	1572.6	1564.8
7.5°	1556.2	1554.4	1544.1	1555.3	1551.0
10°	1533.7	1532.0	1528.5	1536.3	1530.3
12.5°	1506.9	1505.2	1506.9	1511.3	1506.9
15°	1478.4	1481.0	1476.7	1486.2	1477.6
17.5°	1440.4	1443.0	1451.7	1455.1	1454.3
20°	1409.4	1411.1	1421.4	1435.3	1420.6
22.5°	1368.8	1373.1	1378.3	1403.3	1399.9
25°	1327.3	1333.4	1353.2	1372.2	1357.5
27.5°	1284.1	1290.2	1314.4	1328.2	1326.5
30°	1237.5	1243.5	1273.8	1292.8	1284.1
32.5°	1189.1	1199.5	1232.3	1248.7	1232.3
35°	1141.6	1146.8	1178.8	1191.7	1184.0
37.5°	1078.6	1098.5	1130.4	1139.1	1125.2
40°	1031.1	1032.0	1077.7	1077.7	1076.9
42.5°	969.8	983.6	1013.8	1030.2	1021.6
45°	917.1	921.4	960.3	972.4	969.8
47.5°	859.3	876.5	905.0	918.8	911.9
50°	802.3	814.4	843.7	861.8	854.9
52.5°	749.6	759.1	789.3	799.7	792.8
55°	685.7	701.2	726.3	736.6	730.6
57.5°	630.4	641.6	672.7	676.2	672.7
60°	572.6	585.5	610.5	613.1	606.2
62.5°	517.3	525.9	548.4	549.2	541.5
65°	458.6	468.9	484.5	482.7	475.0
67.5°	400.7	407.6	422.3	416.2	407.6
70°	342.0	348.0	360.1	351.5	343.7
72.5°	285.0	289.3	299.7	286.7	277.2
75°	228.8	230.6	238.3	221.9	208.1
77.5°	173.6	175.3	179.6	163.2	147.7
80°	123.5	123.5	125.2	107.9	97.6
82.5°	77.7	77.7	76.9	63.9	57.9
85°	40.6	39.7	38.9	31.1	28.5
87.5°	14.7	14.7	12.1	11.2	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)