

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: P485088

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1HI-27-120-EDD-90**

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: P485088
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-LD4-1HI-27-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

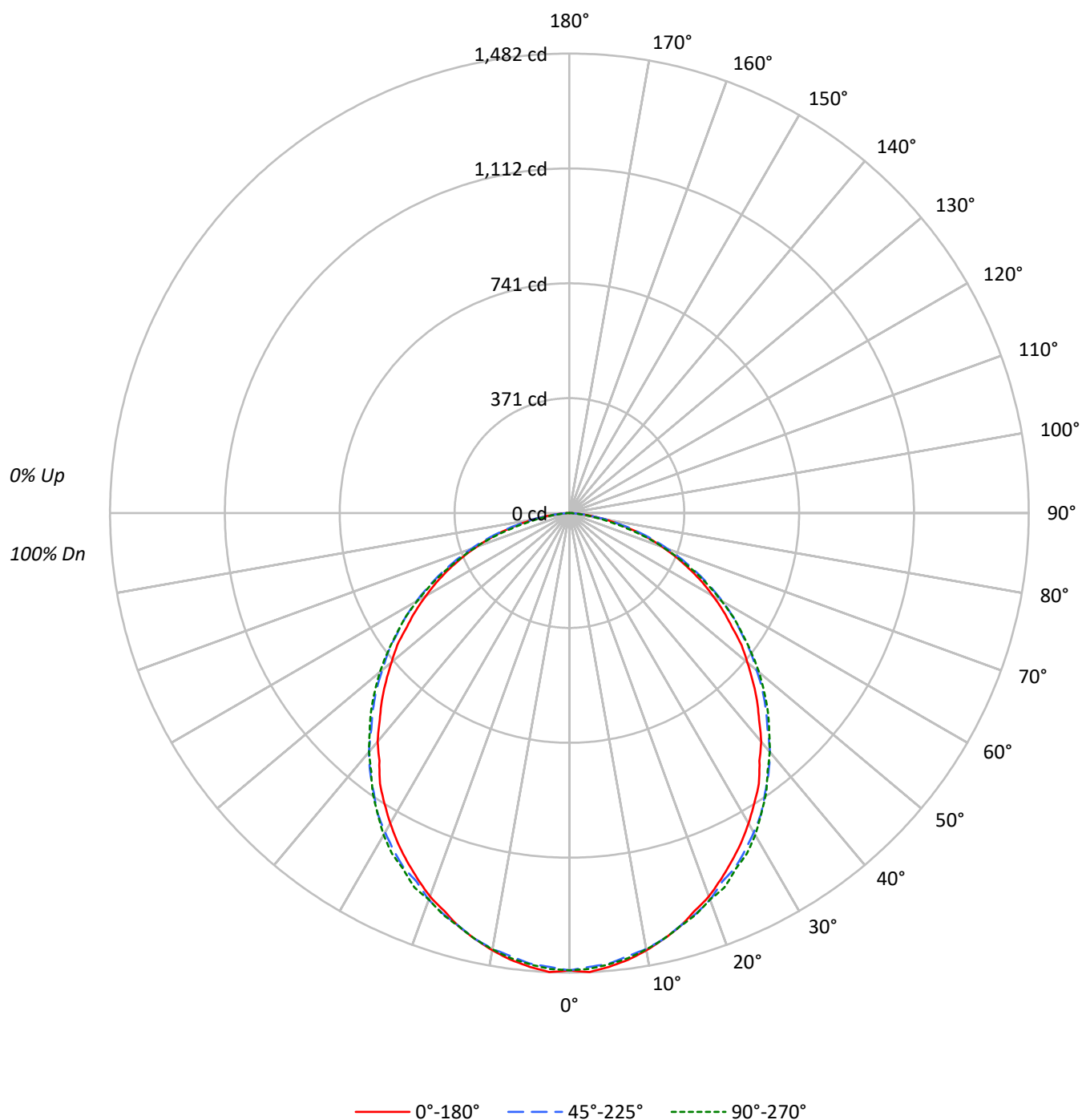
Lumens per Lamp: N/A
Luminaire Lumens: 3788.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71
4	83	72	63	57	81	70	62	56	68	61	55		66	59	55		63
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3969	3969	3969
5°	3968	3940	3947
10°	3913	3900	3904
15°	3846	3841	3843
20°	3768	3801	3798
25°	3680	3752	3763
30°	3590	3695	3726
35°	3502	3616	3632
40°	3382	3535	3532
45°	3259	3412	3446
50°	3136	3298	3342
55°	3004	3181	3200
60°	2877	3068	3046
65°	2727	2880	2824
70°	2512	2645	2525
75°	2222	2313	2020
80°	1787	1812	1412
85°	1170	1121	821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	3.7
10°-20°	389.8	10.3
20°-30°	580.3	15.3
30°-40°	683.0	18.0
40°-50°	684.8	18.1
50°-60°	600.5	15.9
60°-70°	439.1	11.6
70°-80°	226.3	6.0
80°-90°	45.4	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°	1108.7	29.3
0°-40°	1791.7	47.3
0°-60°	3077.1	81.2
0°-90°	3788.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3788.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1475	1475	1475	1475	1475	
5°	1469	1459	1459	1468	1461	139
15°	1380	1383	1379	1388	1380	388
25°	1239	1245	1264	1281	1268	571
35°	1066	1071	1101	1113	1106	664
45°	856	860	897	908	906	660
55°	640	655	678	688	682	575
65°	428	438	452	451	444	424
75°	214	215	222	207	194	226
85°	38	37	36	29	27	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1474.8	1474.8	1474.8	1474.8	1474.8
2.5°	1482.0	1474.8	1465.1	1473.1	1471.5
5°	1469.1	1459.4	1458.6	1468.3	1461.0
7.5°	1453.0	1451.4	1441.7	1452.2	1448.1
10°	1432.0	1430.4	1427.2	1434.4	1428.8
12.5°	1407.0	1405.4	1407.0	1411.1	1407.0
15°	1380.4	1382.8	1378.8	1387.7	1379.6
17.5°	1344.9	1347.4	1355.4	1358.6	1357.8
20°	1315.9	1317.5	1327.2	1340.1	1326.4
22.5°	1278.0	1282.0	1286.9	1310.3	1307.0
25°	1239.3	1245.0	1263.5	1281.2	1267.5
27.5°	1199.0	1204.6	1227.2	1240.1	1238.5
30°	1155.5	1161.1	1189.3	1207.1	1199.0
32.5°	1110.3	1120.0	1150.6	1165.9	1150.6
35°	1066.0	1070.8	1100.6	1112.7	1105.5
37.5°	1007.1	1025.6	1055.5	1063.5	1050.6
40°	962.7	963.5	1006.3	1006.3	1005.5
42.5°	905.5	918.4	946.6	961.9	953.9
45°	856.3	860.3	896.6	907.9	905.5
47.5°	802.3	818.4	845.0	857.9	851.5
50°	749.1	760.4	787.8	804.7	798.3
52.5°	699.9	708.8	737.0	746.6	740.2
55°	640.2	654.7	678.1	687.8	682.1
57.5°	588.6	599.1	628.1	631.3	628.1
60°	534.6	546.7	570.1	572.5	566.0
62.5°	483.0	491.0	512.0	512.8	505.6
65°	428.2	437.8	452.3	450.7	443.5
67.5°	374.1	380.6	394.3	388.6	380.6
70°	319.3	324.9	336.2	328.2	320.9
72.5°	266.1	270.1	279.8	267.7	258.8
75°	213.7	215.3	222.5	207.2	194.3
77.5°	162.1	163.7	167.7	152.4	137.9
80°	115.3	115.3	116.9	100.8	91.1
82.5°	72.6	72.6	71.8	59.7	54.0
85°	37.9	37.1	36.3	29.0	26.6
87.5°	13.7	13.7	11.3	10.5	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)