

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: P485135

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2LO-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: P485135
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-LD4-2LO-20-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

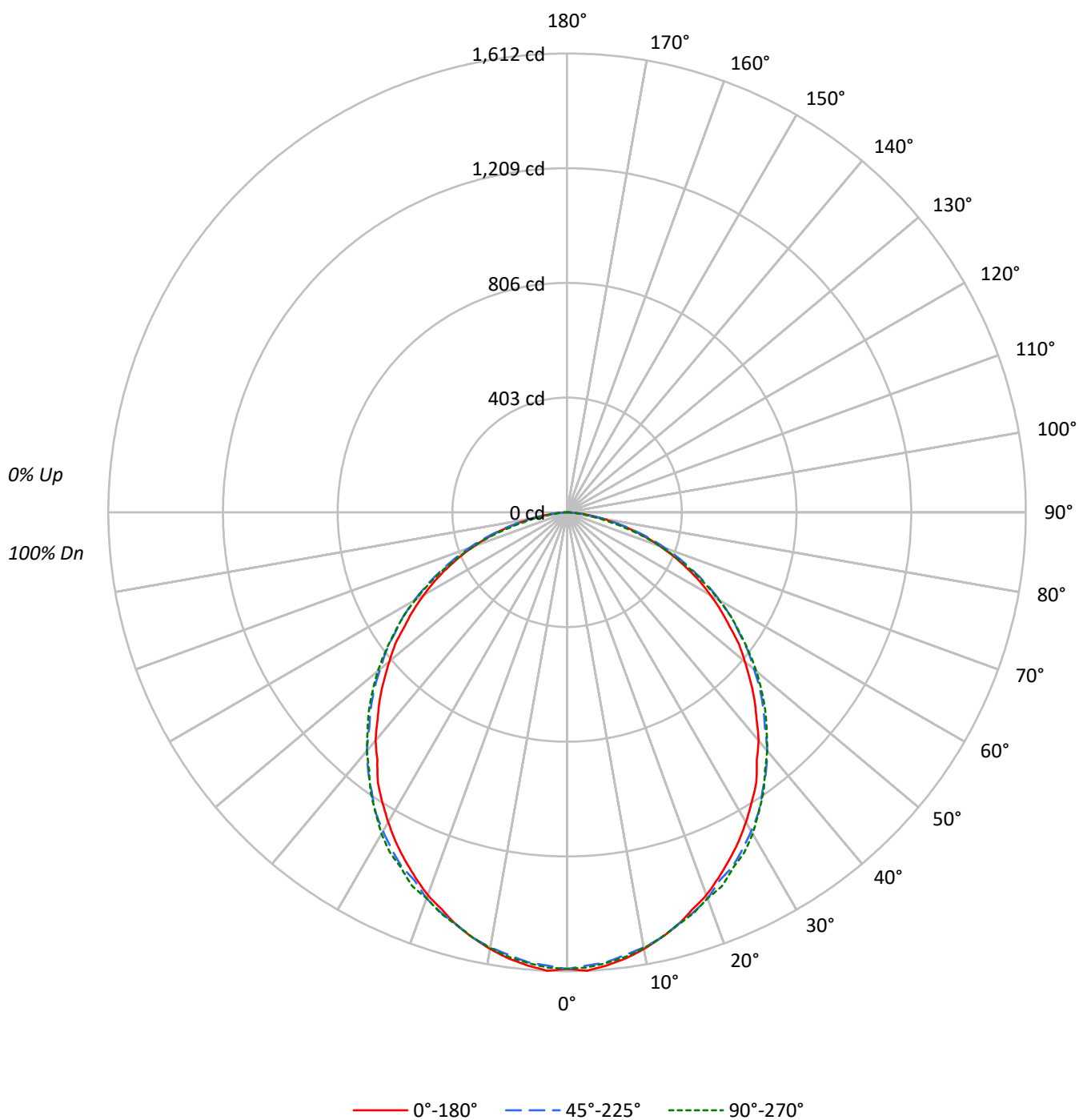
Lumens per Lamp: N/A
Luminaire Lumens: 4120.2 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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°	4317	4317	4317
5°	4316	4286	4293
10°	4256	4242	4247
15°	4183	4178	4181
20°	4099	4134	4131
25°	4002	4081	4094
30°	3905	4020	4052
35°	3809	3933	3950
40°	3679	3845	3842
45°	3545	3712	3748
50°	3411	3587	3635
55°	3267	3461	3481
60°	3130	3337	3314
65°	2965	3133	3072
70°	2733	2877	2747
75°	2416	2517	2198
80°	1943	1971	1536
85°	1272	1220	892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	3.7
10°-20°	424.0	10.3
20°-30°	631.2	15.3
30°-40°	742.9	18.0
40°-50°	744.9	18.1
50°-60°	653.2	15.9
60°-70°	477.7	11.6
70°-80°	246.2	6.0
80°-90°	49.4	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°	1205.9	29.3
0°-40°	1948.9	47.3
0°-60°	3347.0	81.2
0°-90°	4120.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4120.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1598	1587	1586	1597	1589	151
15°	1502	1504	1500	1509	1501	423
25°	1348	1354	1374	1394	1379	621
35°	1159	1165	1197	1210	1202	722
45°	931	936	975	988	985	718
55°	696	712	738	748	742	625
65°	466	476	492	490	482	461
75°	232	234	242	225	211	246
85°	41	40	40	32	29	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1604.1	1604.1	1604.1	1604.1	1604.1
2.5°	1612.0	1604.1	1593.6	1602.3	1600.6
5°	1597.9	1587.4	1586.5	1597.1	1589.2
7.5°	1580.4	1578.7	1568.1	1579.5	1575.1
10°	1557.6	1555.8	1552.3	1560.2	1554.1
12.5°	1530.4	1528.7	1530.4	1534.8	1530.4
15°	1501.5	1504.1	1499.7	1509.4	1500.6
17.5°	1462.9	1465.5	1474.3	1477.8	1476.9
20°	1431.3	1433.1	1443.6	1457.6	1442.7
22.5°	1390.1	1394.5	1399.7	1425.2	1421.7
25°	1348.0	1354.1	1374.3	1393.6	1378.7
27.5°	1304.1	1310.3	1334.8	1348.9	1347.1
30°	1256.8	1262.9	1293.6	1312.9	1304.1
32.5°	1207.7	1218.2	1251.5	1268.2	1251.5
35°	1159.4	1164.7	1197.1	1210.3	1202.4
37.5°	1095.4	1115.6	1148.0	1156.8	1142.8
40°	1047.2	1048.0	1094.5	1094.5	1093.7
42.5°	984.9	998.9	1029.6	1046.3	1037.5
45°	931.4	935.8	975.3	987.5	984.9
47.5°	872.6	890.2	919.1	933.2	926.1
50°	814.8	827.0	856.9	875.3	868.3
52.5°	761.3	770.9	801.6	812.1	805.1
55°	696.4	712.1	737.6	748.1	742.0
57.5°	640.2	651.6	683.2	686.7	683.2
60°	581.5	594.6	620.1	622.7	615.7
62.5°	525.3	534.1	556.9	557.8	549.9
65°	465.7	476.2	492.0	490.3	482.4
67.5°	406.9	414.0	428.9	422.7	414.0
70°	347.3	353.4	365.7	357.0	349.1
72.5°	289.4	293.8	304.3	291.2	281.5
75°	232.4	234.2	242.1	225.4	211.4
77.5°	176.3	178.0	182.4	165.8	150.0
80°	125.4	125.4	127.2	109.6	99.1
82.5°	78.9	78.9	78.1	64.9	58.8
85°	41.2	40.3	39.5	31.6	28.9
87.5°	14.9	14.9	12.3	11.4	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)