

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: P485090

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1HI-30-120-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: P485090
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-30-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

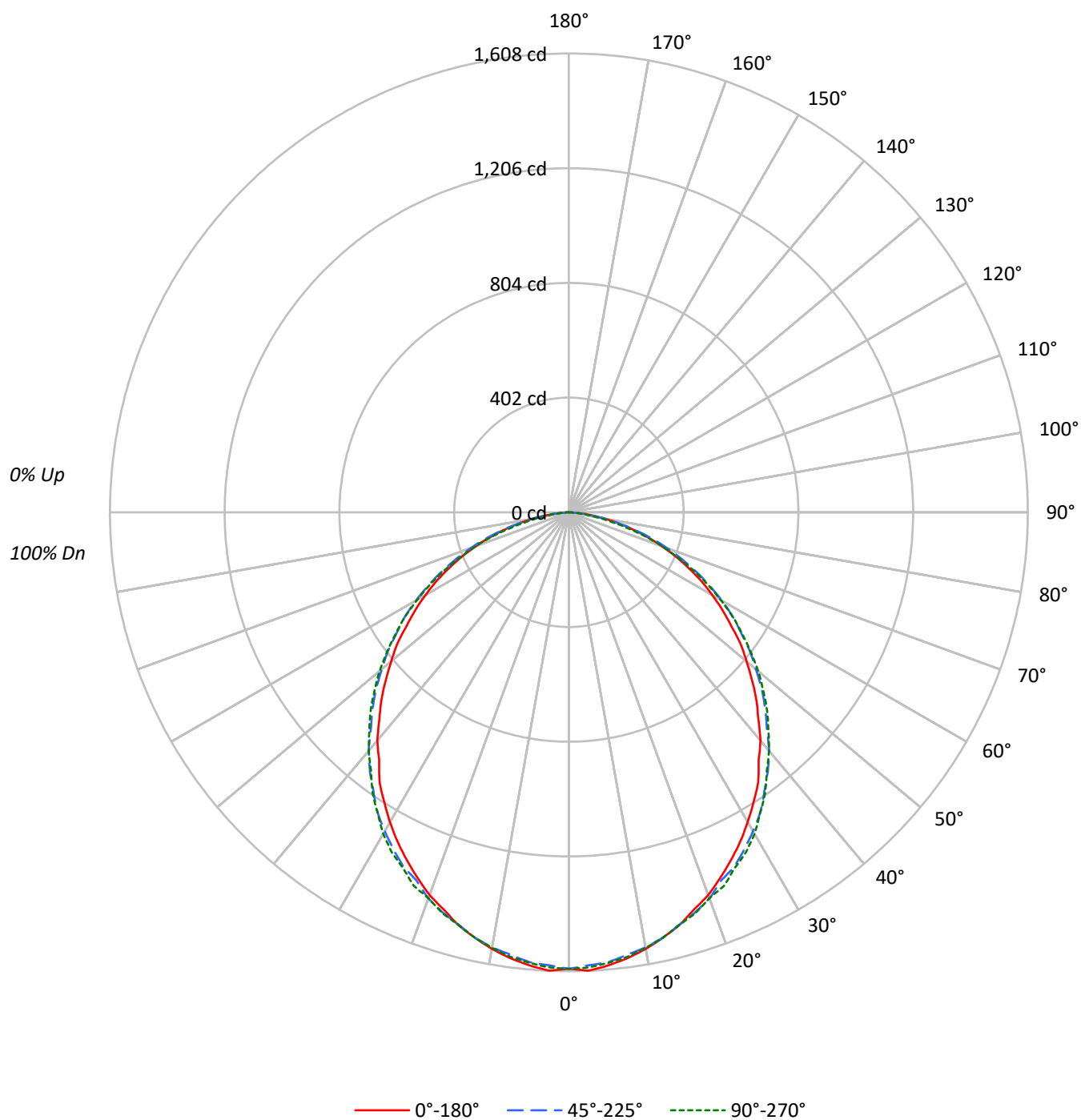
Lumens per Lamp: N/A
Luminaire Lumens: 4109.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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°	4305	4305	4305
5°	4305	4274	4281
10°	4245	4230	4235
15°	4172	4167	4169
20°	4088	4123	4120
25°	3991	4070	4082
30°	3895	4009	4041
35°	3799	3922	3939
40°	3668	3835	3831
45°	3535	3701	3738
50°	3401	3577	3625
55°	3258	3451	3471
60°	3121	3328	3305
65°	2957	3124	3063
70°	2725	2869	2739
75°	2410	2510	2192
80°	1939	1965	1531
85°	1269	1216	892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	3.7
10°-20°	422.8	10.3
20°-30°	629.5	15.3
30°-40°	740.9	18.0
40°-50°	742.9	18.1
50°-60°	651.4	15.9
60°-70°	476.4	11.6
70°-80°	245.5	6.0
80°-90°	49.2	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°	1202.6	29.3
0°-40°	1943.6	47.3
0°-60°	3337.9	81.2
0°-90°	4109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1600	1600	1600	1600	1600	
5°	1594	1583	1582	1593	1585	151
15°	1497	1500	1496	1505	1496	421
25°	1344	1350	1371	1390	1375	619
35°	1156	1162	1194	1207	1199	720
45°	929	933	973	985	982	716
55°	694	710	736	746	740	623
65°	464	475	491	489	481	459
75°	232	234	241	225	211	246
85°	41	40	39	32	29	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1599.7	1599.7	1599.7	1599.7	1599.7
2.5°	1607.6	1599.7	1589.2	1598.0	1596.2
5°	1593.6	1583.1	1582.2	1592.7	1584.9
7.5°	1576.1	1574.4	1563.9	1575.2	1570.9
10°	1553.4	1551.6	1548.1	1556.0	1549.9
12.5°	1526.3	1524.5	1526.3	1530.6	1526.3
15°	1497.4	1500.0	1495.6	1505.3	1496.5
17.5°	1458.9	1461.5	1470.3	1473.8	1472.9
20°	1427.4	1429.2	1439.7	1453.7	1438.8
22.5°	1386.3	1390.7	1395.9	1421.3	1417.8
25°	1344.3	1350.5	1370.6	1389.8	1374.9
27.5°	1300.6	1306.7	1331.2	1345.2	1343.5
30°	1253.4	1259.5	1290.1	1309.3	1300.6
32.5°	1204.4	1214.9	1248.1	1264.7	1248.1
35°	1156.3	1161.5	1193.9	1207.0	1199.1
37.5°	1092.4	1112.5	1144.9	1153.7	1139.7
40°	1044.3	1045.2	1091.6	1091.6	1090.7
42.5°	982.2	996.2	1026.8	1043.5	1034.7
45°	928.9	933.2	972.6	984.9	982.2
47.5°	870.3	887.8	916.6	930.6	923.6
50°	812.5	824.8	854.5	872.9	865.9
52.5°	759.2	768.8	799.4	809.9	802.9
55°	694.5	710.2	735.6	746.1	739.9
57.5°	638.5	649.9	681.3	684.8	681.3
60°	579.9	593.0	618.4	621.0	614.0
62.5°	523.9	532.7	555.4	556.3	548.4
65°	464.4	474.9	490.7	488.9	481.1
67.5°	405.8	412.8	427.7	421.6	412.8
70°	346.4	352.5	364.7	356.0	348.1
72.5°	288.6	293.0	303.5	290.4	280.8
75°	231.8	233.5	241.4	224.8	210.8
77.5°	175.8	177.6	181.9	165.3	149.6
80°	125.1	125.1	126.8	109.3	98.8
82.5°	78.7	78.7	77.8	64.7	58.6
85°	41.1	40.2	39.4	31.5	28.9
87.5°	14.9	14.9	12.2	11.4	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)