

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: P487160

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1LO-50-120-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: P487160
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-24-4-INS-A125-LD4-1LO-50-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

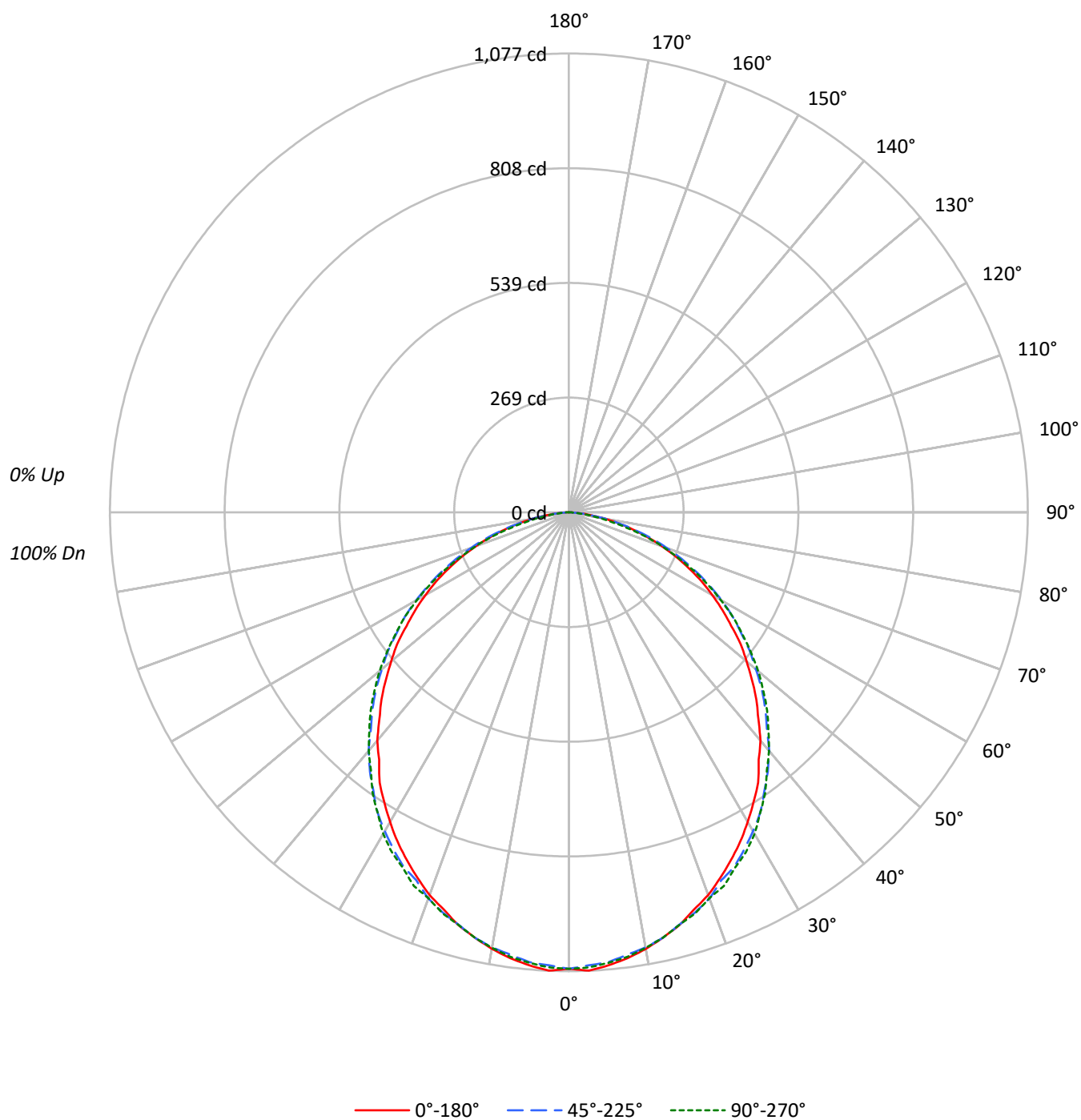
Lumens per Lamp: N/A
Luminaire Lumens: 2752.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	1442	1442	1442
5°	1442	1431	1434
10°	1421	1417	1418
15°	1397	1395	1396
20°	1369	1381	1380
25°	1337	1363	1367
30°	1304	1342	1353
35°	1272	1313	1319
40°	1228	1284	1283
45°	1184	1239	1252
50°	1139	1198	1214
55°	1091	1156	1163
60°	1045	1115	1107
65°	990	1046	1026
70°	913	961	917
75°	807	841	734
80°	649	658	513
85°	425	408	298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	3.7
10°-20°	283.2	10.3
20°-30°	421.6	15.3
30°-40°	496.2	18.0
40°-50°	497.5	18.1
50°-60°	436.3	15.9
60°-70°	319.0	11.6
70°-80°	164.4	6.0
80°-90°	33.0	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°	805.5	29.3
0°-40°	1301.7	47.3
0°-60°	2235.5	81.2
0°-90°	2752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1071	1071	1071	1071	1071	
5°	1067	1060	1060	1067	1062	101
15°	1003	1005	1002	1008	1002	282
25°	900	904	918	931	921	415
35°	774	778	800	808	803	482
45°	622	625	651	660	658	479
55°	465	476	493	500	496	418
65°	311	318	329	328	322	308
75°	155	156	162	150	141	164
85°	28	27	26	21	19	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1071.4	1071.4	1071.4	1071.4	1071.4
2.5°	1076.7	1071.4	1064.4	1070.2	1069.1
5°	1067.3	1060.3	1059.7	1066.7	1061.5
7.5°	1055.6	1054.4	1047.4	1055.0	1052.1
10°	1040.4	1039.2	1036.9	1042.1	1038.0
12.5°	1022.2	1021.0	1022.2	1025.1	1022.2
15°	1002.9	1004.6	1001.7	1008.1	1002.3
17.5°	977.1	978.9	984.7	987.1	986.5
20°	956.0	957.2	964.2	973.6	963.6
22.5°	928.5	931.4	934.9	951.9	949.6
25°	900.4	904.5	917.9	930.8	920.9
27.5°	871.1	875.2	891.6	900.9	899.8
30°	839.4	843.5	864.0	876.9	871.1
32.5°	806.6	813.7	835.9	847.1	835.9
35°	774.4	777.9	799.6	808.4	803.1
37.5°	731.7	745.1	766.8	772.7	763.3
40°	699.4	700.0	731.1	731.1	730.5
42.5°	657.8	667.2	687.7	698.9	693.0
45°	622.1	625.0	651.4	659.6	657.8
47.5°	582.9	594.6	613.9	623.3	618.6
50°	544.2	552.4	572.3	584.6	579.9
52.5°	508.5	514.9	535.4	542.4	537.8
55°	465.1	475.7	492.7	499.7	495.6
57.5°	427.6	435.2	456.3	458.7	456.3
60°	388.4	397.2	414.2	415.9	411.2
62.5°	350.9	356.7	372.0	372.6	367.3
65°	311.1	318.1	328.6	327.5	322.2
67.5°	271.8	276.5	286.5	282.4	276.5
70°	232.0	236.1	244.3	238.4	233.1
72.5°	193.3	196.2	203.3	194.5	188.0
75°	155.2	156.4	161.7	150.5	141.2
77.5°	117.7	118.9	121.8	110.7	100.2
80°	83.8	83.8	84.9	73.2	66.2
82.5°	52.7	52.7	52.1	43.3	39.2
85°	27.5	26.9	26.4	21.1	19.3
87.5°	10.0	10.0	8.2	7.6	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)