

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: P487172

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1STD-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: P487172
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-LD4-1STD-50-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

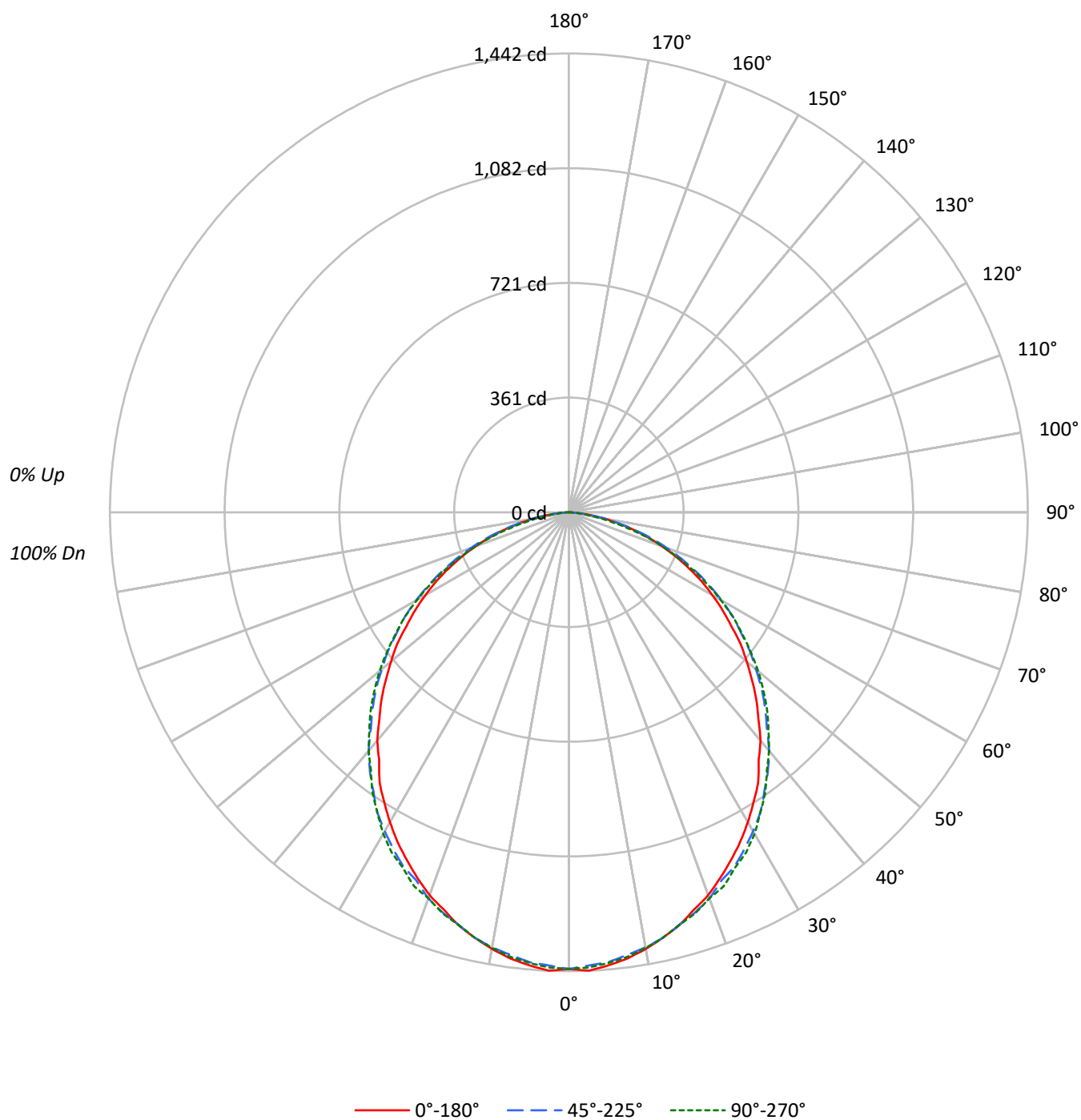
Lumens per Lamp: N/A
Luminaire Lumens: 3685.4 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P487172

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-1STD-50-120-EDD-90

Luminous Intensity Polar Plot



TEST NUMBER: P487172

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-1STD-50-120-EDD-90

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	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39		
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1931	1931	1931
5°	1930	1917	1920
10°	1903	1897	1899
15°	1871	1869	1870
20°	1833	1849	1848
25°	1790	1825	1831
30°	1747	1798	1812
35°	1703	1759	1767
40°	1645	1720	1718
45°	1585	1660	1676
50°	1526	1604	1626
55°	1461	1548	1557
60°	1400	1492	1482
65°	1326	1401	1374
70°	1222	1287	1228
75°	1081	1125	983
80°	869	881	687
85°	570	545	400



TEST NUMBER: P487172

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-1STD-50-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	3.7
10°-20°	379.2	10.3
20°-30°	564.6	15.3
30°-40°	664.5	18.0
40°-50°	666.3	18.1
50°-60°	584.3	15.9
60°-70°	427.2	11.6
70°-80°	220.2	6.0
80°-90°	44.2	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°	1078.7	29.3
0°-40°	1743.2	47.3
0°-60°	2993.8	81.2
0°-90°	3685.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3685.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1435	1435	1435	1435	1435	
5°	1429	1420	1419	1428	1422	135
15°	1343	1345	1342	1350	1342	378
25°	1206	1211	1229	1246	1233	555
35°	1037	1042	1071	1083	1076	646
45°	833	837	872	883	881	642
55°	623	637	660	669	664	559
65°	417	426	440	438	432	412
75°	208	210	216	202	189	220
85°	37	36	35	28	26	48
90°	0	0	0	0	0	



TEST NUMBER: P487172

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-1STD-50-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1434.8	1434.8	1434.8	1434.8	1434.8
2.5°	1441.9	1434.8	1425.4	1433.2	1431.7
5°	1429.3	1419.9	1419.1	1428.5	1421.5
7.5°	1413.6	1412.1	1402.6	1412.8	1408.9
10°	1393.2	1391.7	1388.5	1395.6	1390.1
12.5°	1368.9	1367.3	1368.9	1372.8	1368.9
15°	1343.0	1345.4	1341.5	1350.1	1342.2
17.5°	1308.5	1310.9	1318.7	1321.8	1321.1
20°	1280.3	1281.8	1291.2	1303.8	1290.5
22.5°	1243.4	1247.3	1252.0	1274.8	1271.6
25°	1205.7	1211.2	1229.3	1246.5	1233.2
27.5°	1166.5	1172.0	1194.0	1206.5	1205.0
30°	1124.2	1129.6	1157.1	1174.4	1166.5
32.5°	1080.2	1089.6	1119.4	1134.4	1119.4
35°	1037.1	1041.8	1070.8	1082.6	1075.5
37.5°	979.8	997.9	1026.9	1034.7	1022.2
40°	936.7	937.5	979.0	979.0	978.2
42.5°	881.0	893.5	921.0	935.9	928.0
45°	833.1	837.0	872.3	883.3	881.0
47.5°	780.6	796.2	822.1	834.7	828.4
50°	728.8	739.8	766.4	782.9	776.6
52.5°	680.9	689.6	717.0	726.4	720.2
55°	622.9	637.0	659.7	669.2	663.7
57.5°	572.7	582.9	611.1	614.2	611.1
60°	520.1	531.9	554.6	557.0	550.7
62.5°	469.9	477.7	498.1	498.9	491.9
65°	416.6	426.0	440.1	438.5	431.5
67.5°	364.0	370.3	383.6	378.1	370.3
70°	310.7	316.1	327.1	319.3	312.2
72.5°	258.9	262.8	272.2	260.4	251.8
75°	207.9	209.5	216.5	201.6	189.1
77.5°	157.7	159.2	163.2	148.3	134.1
80°	112.2	112.2	113.7	98.1	88.6
82.5°	70.6	70.6	69.8	58.1	52.6
85°	36.9	36.1	35.3	28.2	25.9
87.5°	13.3	13.3	11.0	10.2	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)