

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: P487167

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1STD-30-120-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: P487167
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-30-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

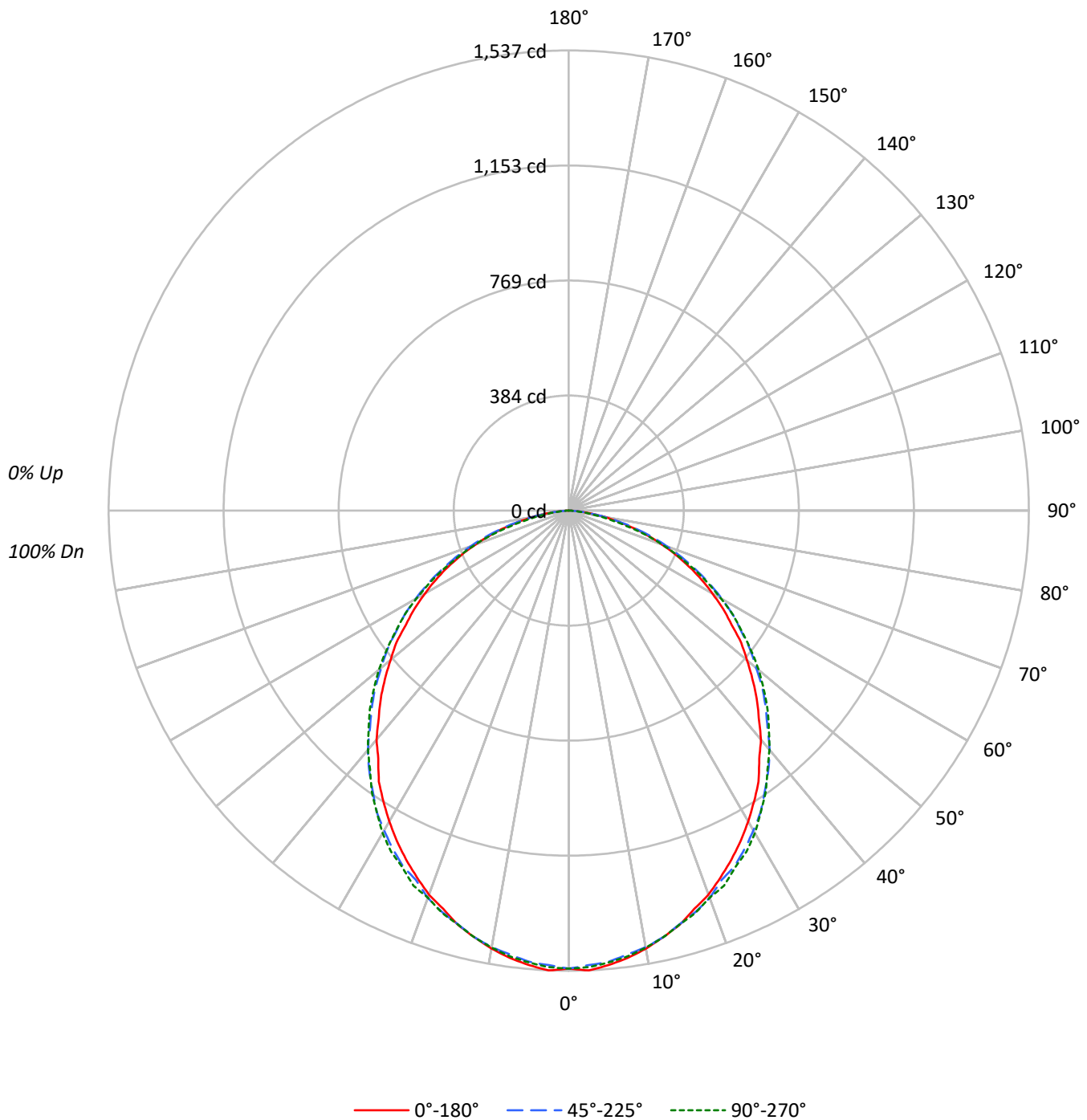
Lumens per Lamp: N/A
Luminaire Lumens: 3929.4 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	2058	2058	2058
5°	2058	2044	2047
10°	2030	2023	2025
15°	1995	1992	1993
20°	1954	1971	1970
25°	1909	1946	1952
30°	1862	1917	1932
35°	1816	1875	1883
40°	1754	1833	1832
45°	1690	1770	1787
50°	1626	1711	1733
55°	1558	1650	1660
60°	1492	1591	1580
65°	1414	1494	1465
70°	1303	1372	1310
75°	1153	1200	1048
80°	927	940	732
85°	607	580	426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	3.7
10°-20°	404.3	10.3
20°-30°	602.0	15.3
30°-40°	708.5	18.0
40°-50°	710.4	18.1
50°-60°	623.0	15.9
60°-70°	455.5	11.6
70°-80°	234.8	6.0
80°-90°	47.1	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°	1150.1	29.3
0°-40°	1858.6	47.3
0°-60°	3192.0	81.2
0°-90°	3929.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3929.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1524	1514	1513	1523	1516	144
15°	1432	1434	1430	1440	1431	403
25°	1286	1291	1311	1329	1315	592
35°	1106	1111	1142	1154	1147	689
45°	888	892	930	942	939	685
55°	664	679	703	714	708	596
65°	444	454	469	468	460	439
75°	222	223	231	215	202	235
85°	39	38	38	30	28	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1529.8	1529.8	1529.8	1529.8	1529.8
2.5°	1537.3	1529.8	1519.8	1528.1	1526.5
5°	1523.9	1513.9	1513.1	1523.1	1515.6
7.5°	1507.2	1505.5	1495.5	1506.4	1502.2
10°	1485.5	1483.8	1480.5	1488.0	1482.1
12.5°	1459.5	1457.9	1459.5	1463.7	1459.5
15°	1431.9	1434.5	1430.3	1439.5	1431.1
17.5°	1395.1	1397.6	1406.0	1409.4	1408.5
20°	1365.0	1366.7	1376.7	1390.1	1375.9
22.5°	1325.7	1329.9	1334.9	1359.2	1355.8
25°	1285.6	1291.4	1310.7	1329.1	1314.8
27.5°	1243.7	1249.6	1273.0	1286.4	1284.7
30°	1198.6	1204.4	1233.7	1252.1	1243.7
32.5°	1151.7	1161.8	1193.6	1209.5	1193.6
35°	1105.7	1110.8	1141.7	1154.3	1146.7
37.5°	1044.7	1063.9	1094.9	1103.2	1089.8
40°	998.7	999.5	1043.8	1043.8	1043.0
42.5°	939.3	952.7	982.0	997.8	989.5
45°	888.3	892.5	930.1	941.8	939.3
47.5°	832.2	849.0	876.6	889.9	883.3
50°	777.0	788.7	817.2	834.7	828.1
52.5°	726.0	735.2	764.5	774.5	767.8
55°	664.1	679.2	703.4	713.5	707.6
57.5°	610.6	621.5	651.6	654.9	651.6
60°	554.5	567.1	591.3	593.9	587.2
62.5°	501.0	509.4	531.1	532.0	524.4
65°	444.1	454.2	469.2	467.6	460.0
67.5°	388.1	394.8	409.0	403.2	394.8
70°	331.2	337.1	348.8	340.4	332.9
72.5°	276.0	280.2	290.2	277.7	268.5
75°	221.7	223.3	230.9	215.0	201.6
77.5°	168.1	169.8	174.0	158.1	143.0
80°	119.6	119.6	121.3	104.6	94.5
82.5°	75.3	75.3	74.4	61.9	56.0
85°	39.3	38.5	37.6	30.1	27.6
87.5°	14.2	14.2	11.7	10.9	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)