

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: P487140

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1HI-27-120-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: P487140
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-LD4-1HI-27-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

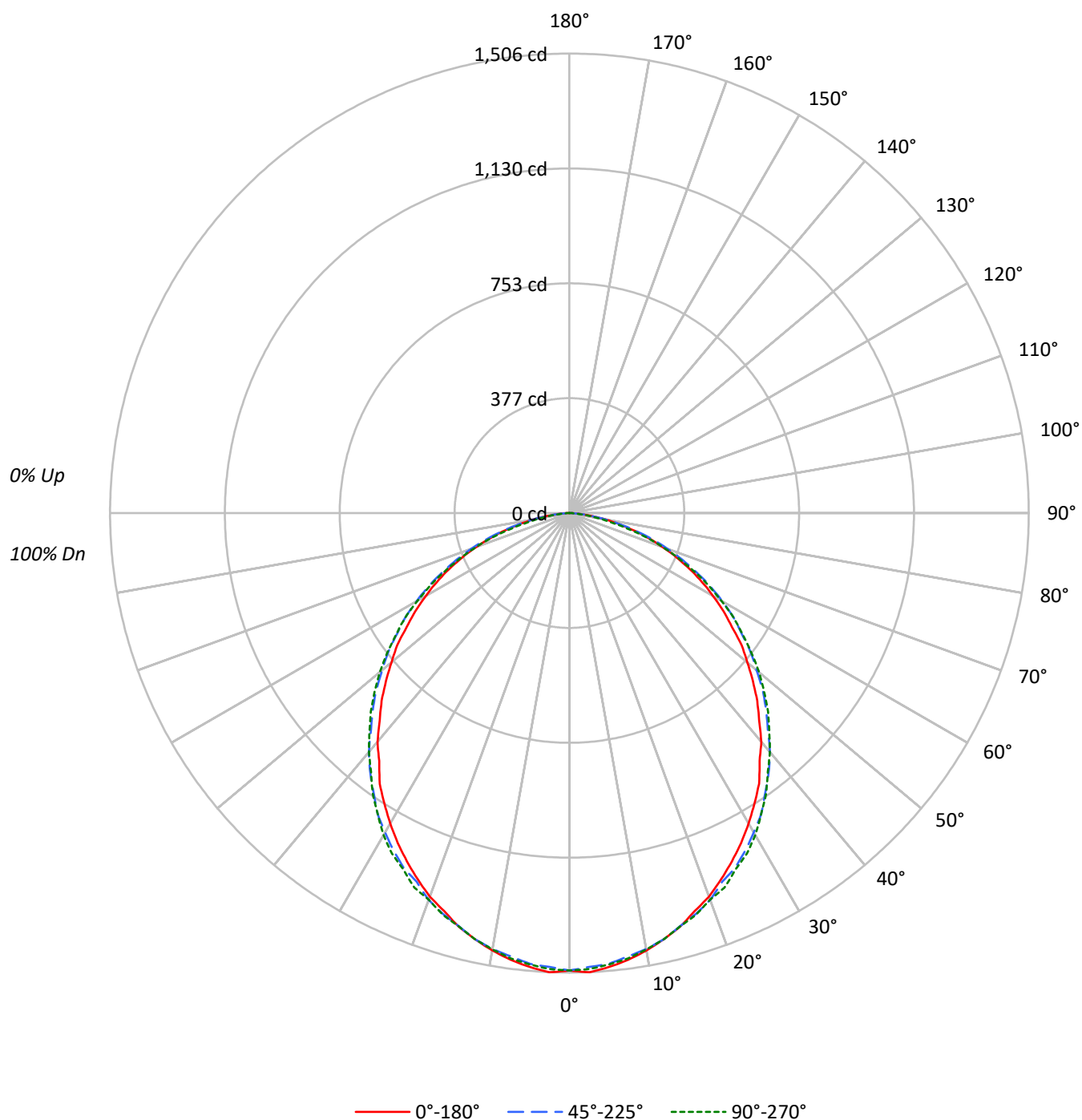
Lumens per Lamp: N/A
Luminaire Lumens: 3850.7 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2017	2017	2017
5°	2017	2003	2006
10°	1989	1982	1984
15°	1955	1952	1953
20°	1915	1932	1931
25°	1870	1907	1913
30°	1825	1878	1894
35°	1780	1838	1846
40°	1719	1797	1795
45°	1656	1734	1752
50°	1594	1676	1699
55°	1527	1617	1627
60°	1462	1559	1548
65°	1386	1464	1435
70°	1277	1345	1283
75°	1129	1176	1027
80°	908	921	717
85°	594	570	417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.9	3.7
10°-20°	396.2	10.3
20°-30°	589.9	15.3
30°-40°	694.3	18.0
40°-50°	696.2	18.1
50°-60°	610.5	15.9
60°-70°	446.4	11.6
70°-80°	230.1	6.0
80°-90°	46.2	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°	1127.0	29.3
0°-40°	1821.4	47.3
0°-60°	3128.1	81.2
0°-90°	3850.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3850.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1499	1499	1499	1499	1499	
5°	1493	1484	1483	1493	1485	141
15°	1403	1406	1402	1411	1402	395
25°	1260	1266	1284	1302	1288	580
35°	1084	1088	1119	1131	1124	675
45°	870	875	912	923	920	671
55°	651	666	689	699	693	584
65°	435	445	460	458	451	431
75°	217	219	226	211	198	230
85°	38	38	37	30	27	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1499.2	1499.2	1499.2	1499.2	1499.2
2.5°	1506.5	1499.2	1489.3	1497.5	1495.9
5°	1493.4	1483.6	1482.8	1492.6	1485.2
7.5°	1477.0	1475.4	1465.6	1476.2	1472.1
10°	1455.7	1454.1	1450.8	1458.2	1452.4
12.5°	1430.3	1428.7	1430.3	1434.4	1430.3
15°	1403.3	1405.7	1401.6	1410.6	1402.4
17.5°	1367.2	1369.7	1377.9	1381.1	1380.3
20°	1337.7	1339.3	1349.2	1362.3	1348.3
22.5°	1299.2	1303.3	1308.2	1332.0	1328.7
25°	1259.8	1265.6	1284.4	1302.4	1288.5
27.5°	1218.8	1224.6	1247.5	1260.6	1259.0
30°	1174.6	1180.3	1209.0	1227.0	1218.8
32.5°	1128.7	1138.5	1169.7	1185.2	1169.7
35°	1083.6	1088.5	1118.8	1131.1	1123.8
37.5°	1023.8	1042.6	1072.9	1081.1	1068.0
40°	978.7	979.5	1022.9	1022.9	1022.1
42.5°	920.5	933.6	962.3	977.9	969.7
45°	870.5	874.6	911.5	922.9	920.5
47.5°	815.6	832.0	859.0	872.1	865.6
50°	761.5	772.9	800.8	818.0	811.5
52.5°	711.5	720.5	749.2	759.0	752.5
55°	650.8	665.6	689.3	699.2	693.4
57.5°	598.4	609.0	638.5	641.8	638.5
60°	543.4	555.7	579.5	582.0	575.4
62.5°	491.0	499.2	520.5	521.3	513.9
65°	435.2	445.1	459.8	458.2	450.8
67.5°	380.3	386.9	400.8	395.1	386.9
70°	324.6	330.3	341.8	333.6	326.2
72.5°	270.5	274.6	284.4	272.1	263.1
75°	217.2	218.9	226.2	210.7	197.5
77.5°	164.8	166.4	170.5	154.9	140.2
80°	117.2	117.2	118.9	102.5	92.6
82.5°	73.8	73.8	73.0	60.7	54.9
85°	38.5	37.7	36.9	29.5	27.0
87.5°	13.9	13.9	11.5	10.7	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)