

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: P485950

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4HI-20-120-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: P485950
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-24-2-INS-A125-LD4-4HI-20-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

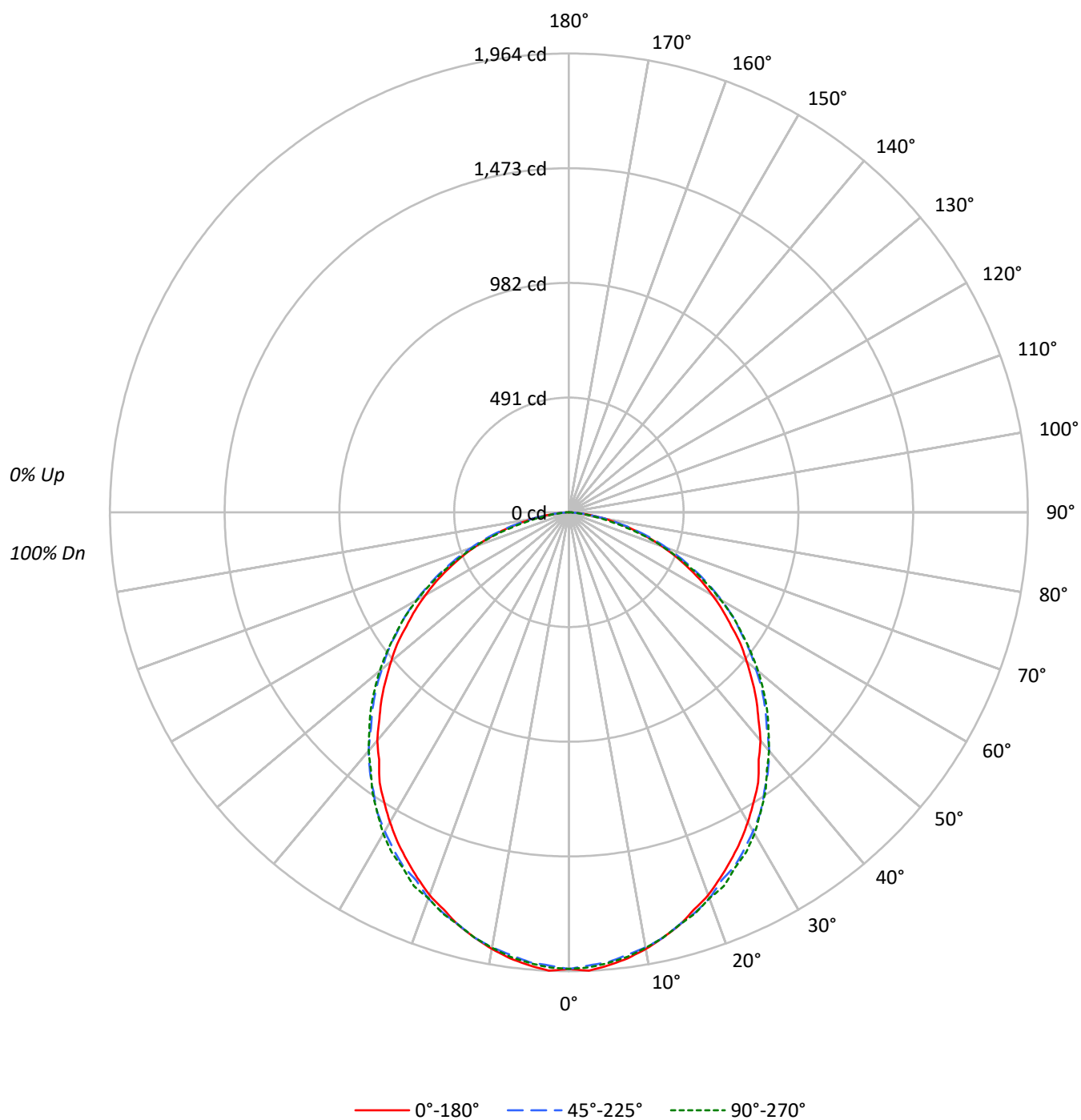
Lumens per Lamp: N/A
Luminaire Lumens: 5019.5 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71
4	83	72	63	57	81	70	62	56	68	61	55		66	59	55		63
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5259	5259	5259
5°	5259	5221	5230
10°	5185	5168	5173
15°	5096	5090	5093
20°	4993	5036	5033
25°	4876	4971	4987
30°	4758	4897	4937
35°	4640	4791	4812
40°	4481	4684	4680
45°	4318	4521	4566
50°	4155	4370	4428
55°	3980	4216	4241
60°	3813	4066	4037
65°	3612	3817	3742
70°	3329	3505	3345
75°	2943	3066	2677
80°	2368	2400	1870
85°	1550	1485	1090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.7	3.7
10°-20°	516.5	10.3
20°-30°	769.0	15.3
30°-40°	905.1	18.0
40°-50°	907.5	18.1
50°-60°	795.8	15.9
60°-70°	581.9	11.6
70°-80°	299.9	6.0
80°-90°	60.2	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°	1469.1	29.3
0°-40°	2374.3	47.3
0°-60°	4077.6	81.2
0°-90°	5019.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5019.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1954	1954	1954	1954	1954	
5°	1947	1934	1933	1946	1936	184
15°	1829	1832	1827	1839	1828	515
25°	1642	1650	1674	1698	1680	756
35°	1412	1419	1458	1474	1465	880
45°	1135	1140	1188	1203	1200	874
55°	848	868	899	911	904	762
65°	567	580	599	597	588	561
75°	283	285	295	275	258	300
85°	50	49	48	38	35	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1954.2	1954.2	1954.2	1954.2	1954.2
2.5°	1963.8	1954.2	1941.4	1952.1	1949.9
5°	1946.7	1933.9	1932.8	1945.7	1936.0
7.5°	1925.4	1923.2	1910.4	1924.3	1918.9
10°	1897.6	1895.4	1891.2	1900.8	1893.3
12.5°	1864.5	1862.3	1864.5	1869.8	1864.5
15°	1829.2	1832.4	1827.1	1838.8	1828.1
17.5°	1782.2	1785.4	1796.1	1800.3	1799.3
20°	1743.7	1745.9	1758.7	1775.8	1757.6
22.5°	1693.5	1698.8	1705.3	1736.2	1732.0
25°	1642.2	1649.7	1674.3	1697.8	1679.6
27.5°	1588.8	1596.3	1626.2	1643.3	1641.1
30°	1531.1	1538.6	1576.0	1599.5	1588.8
32.5°	1471.3	1484.1	1524.7	1545.0	1524.7
35°	1412.5	1418.9	1458.4	1474.5	1464.9
37.5°	1334.5	1359.1	1398.6	1409.3	1392.2
40°	1275.7	1276.8	1333.4	1333.4	1332.4
42.5°	1199.9	1217.0	1254.4	1274.7	1264.0
45°	1134.7	1140.0	1188.1	1203.1	1199.9
47.5°	1063.1	1084.5	1119.7	1136.8	1128.3
50°	992.6	1007.6	1043.9	1066.3	1057.8
52.5°	927.4	939.2	976.6	989.4	980.8
55°	848.4	867.6	898.6	911.4	903.9
57.5°	780.0	793.9	832.3	836.6	832.3
60°	708.4	724.4	755.4	758.6	750.1
62.5°	640.0	650.7	678.5	679.5	669.9
65°	567.3	580.2	599.4	597.3	587.7
67.5°	495.8	504.3	522.5	515.0	504.3
70°	423.1	430.6	445.5	434.9	425.2
72.5°	352.6	357.9	370.8	354.7	343.0
75°	283.1	285.3	294.9	274.6	257.5
77.5°	214.8	216.9	222.2	201.9	182.7
80°	152.8	152.8	154.9	133.6	120.7
82.5°	96.2	96.2	95.1	79.1	71.6
85°	50.2	49.1	48.1	38.5	35.3
87.5°	18.2	18.2	15.0	13.9	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)