

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: P485147

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2STD-20-120-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: P485147
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-12-4-INS-A125-LD4-2STD-20-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

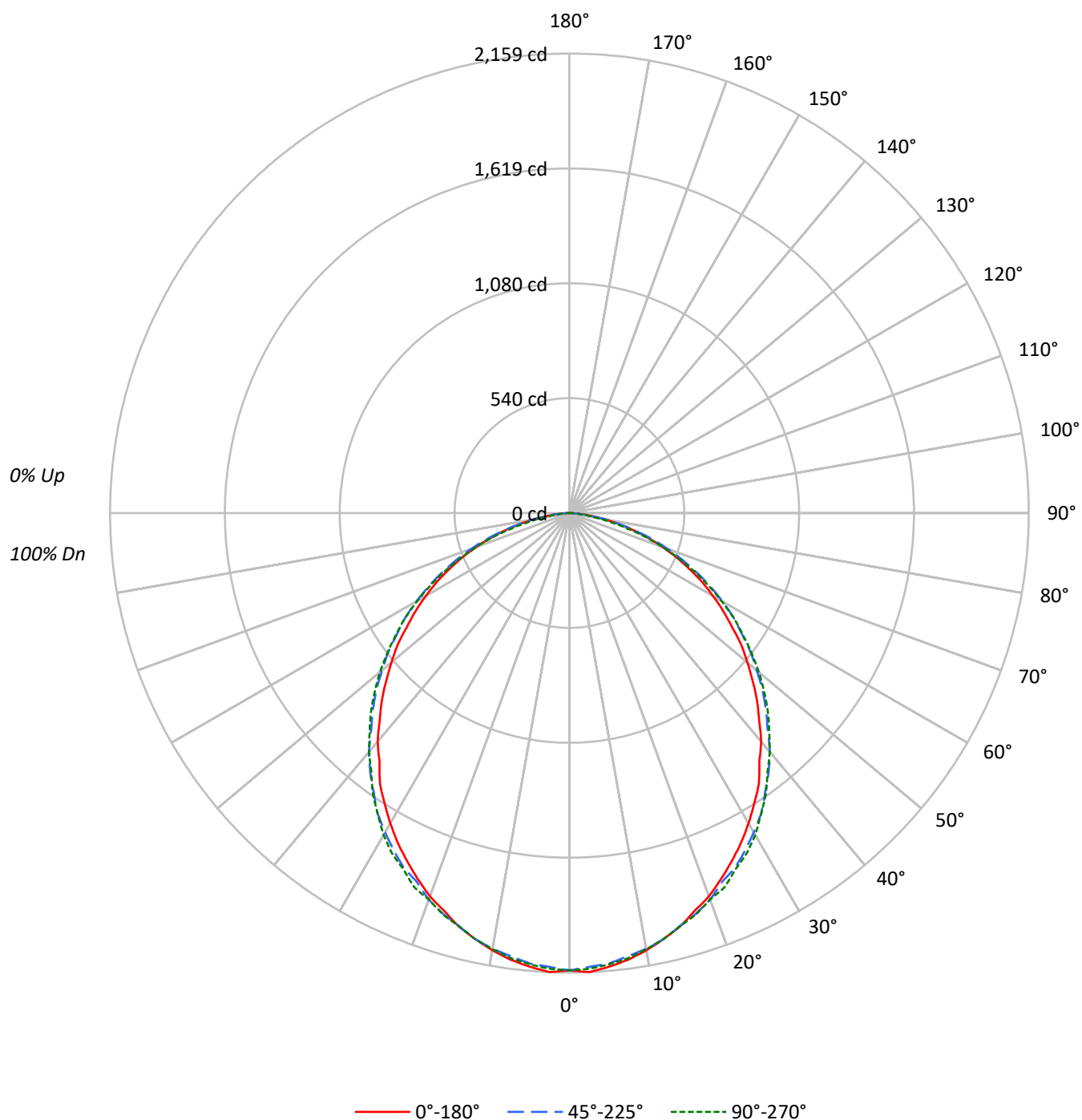
Lumens per Lamp: N/A
Luminaire Lumens: 5517.6 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	5780	5780	5780
5°	5780	5739	5749
10°	5700	5680	5687
15°	5602	5595	5598
20°	5489	5536	5533
25°	5360	5464	5482
30°	5230	5383	5427
35°	5101	5267	5290
40°	4926	5149	5145
45°	4747	4970	5019
50°	4568	4804	4868
55°	4375	4634	4662
60°	4191	4469	4437
65°	3971	4195	4113
70°	3659	3854	3677
75°	3236	3371	2942
80°	2603	2639	2056
85°	1704	1633	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.9	3.7
10°-20°	567.7	10.3
20°-30°	845.3	15.3
30°-40°	994.9	18.0
40°-50°	997.5	18.1
50°-60°	874.8	15.9
60°-70°	639.7	11.6
70°-80°	329.6	6.0
80°-90°	66.1	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°	1614.9	29.3
0°-40°	2609.9	47.3
0°-60°	4482.2	81.2
0°-90°	5517.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5517.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2148	2148	2148	2148	2148	
5°	2140	2126	2125	2139	2128	203
15°	2011	2014	2008	2021	2010	566
25°	1805	1813	1840	1866	1846	832
35°	1553	1560	1603	1621	1610	967
45°	1247	1253	1306	1322	1319	961
55°	932	954	988	1002	994	837
65°	624	638	659	656	646	617
75°	311	314	324	302	283	330
85°	55	54	53	42	39	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2148.1	2148.1	2148.1	2148.1	2148.1
2.5°	2158.7	2148.1	2134.0	2145.8	2143.4
5°	2139.9	2125.8	2124.6	2138.7	2128.2
7.5°	2116.4	2114.1	2100.0	2115.2	2109.4
10°	2085.9	2083.5	2078.8	2089.4	2081.2
12.5°	2049.5	2047.1	2049.5	2055.3	2049.5
15°	2010.7	2014.2	2008.4	2021.3	2009.5
17.5°	1959.0	1962.6	1974.3	1979.0	1977.8
20°	1916.8	1919.1	1933.2	1952.0	1932.0
22.5°	1861.6	1867.4	1874.5	1908.5	1903.8
25°	1805.2	1813.4	1840.4	1866.2	1846.3
27.5°	1746.5	1754.7	1787.6	1806.4	1804.0
30°	1683.0	1691.3	1732.4	1758.2	1746.5
32.5°	1617.3	1631.4	1676.0	1698.3	1676.0
35°	1552.7	1559.7	1603.2	1620.8	1610.2
37.5°	1466.9	1493.9	1537.4	1549.1	1530.3
40°	1402.3	1403.5	1465.8	1465.8	1464.6
42.5°	1318.9	1337.7	1378.8	1401.2	1389.4
45°	1247.3	1253.2	1306.0	1322.5	1318.9
47.5°	1168.6	1192.1	1230.9	1249.6	1240.3
50°	1091.1	1107.5	1147.5	1172.1	1162.7
52.5°	1019.4	1032.4	1073.5	1087.6	1078.2
55°	932.5	953.7	987.7	1001.8	993.6
57.5°	857.4	872.6	914.9	919.6	914.9
60°	778.7	796.3	830.4	833.9	824.5
62.5°	703.5	715.3	745.8	747.0	736.4
65°	623.6	637.7	658.9	656.5	646.0
67.5°	545.0	554.4	574.3	566.1	554.4
70°	465.1	473.3	489.8	478.0	467.4
72.5°	387.6	393.5	407.5	389.9	377.0
75°	311.2	313.6	324.2	301.8	283.0
77.5°	236.1	238.4	244.3	222.0	200.8
80°	168.0	168.0	170.3	146.8	132.7
82.5°	105.7	105.7	104.5	86.9	78.7
85°	55.2	54.0	52.9	42.3	38.8
87.5°	20.0	20.0	16.4	15.3	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)