

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: P485122

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2HI-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: P485122
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-LD4-2HI-20-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

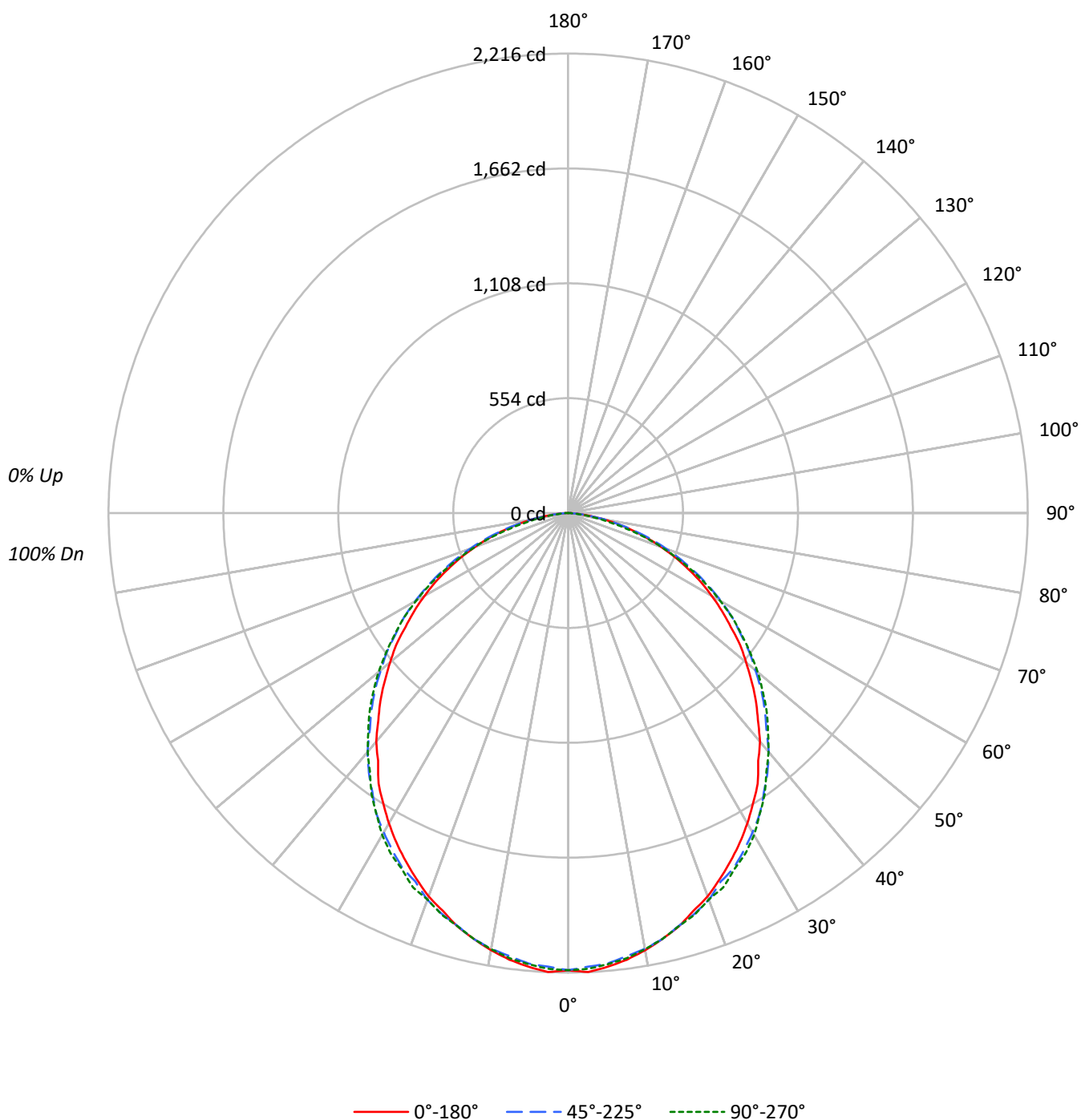
Lumens per Lamp: N/A
Luminaire Lumens: 5662.9 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	5933	5933	5933
5°	5933	5890	5900
10°	5850	5830	5837
15°	5749	5743	5746
20°	5633	5682	5678
25°	5501	5608	5626
30°	5368	5525	5569
35°	5235	5405	5429
40°	5056	5285	5280
45°	4872	5101	5152
50°	4688	4930	4996
55°	4490	4756	4784
60°	4301	4587	4554
65°	4076	4306	4222
70°	3755	3955	3775
75°	3321	3459	3020
80°	2672	2709	2111
85°	1751	1673	1229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.2	3.7
10°-20°	582.7	10.3
20°-30°	867.5	15.3
30°-40°	1021.1	18.0
40°-50°	1023.8	18.1
50°-60°	897.8	15.9
60°-70°	656.5	11.6
70°-80°	338.3	6.0
80°-90°	67.9	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°	1657.5	29.3
0°-40°	2678.6	47.3
0°-60°	4600.2	81.2
0°-90°	5662.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5662.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2205	2205	2205	2205	2205	
5°	2196	2182	2181	2195	2184	208
15°	2064	2067	2061	2074	2062	581
25°	1853	1861	1889	1915	1895	853
35°	1594	1601	1645	1664	1653	992
45°	1280	1286	1340	1357	1354	987
55°	957	979	1014	1028	1020	859
65°	640	654	676	674	663	633
75°	319	322	333	310	290	338
85°	57	55	54	43	40	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2204.7	2204.7	2204.7	2204.7	2204.7
2.5°	2215.5	2204.7	2190.2	2202.3	2199.9
5°	2196.3	2181.8	2180.6	2195.1	2184.2
7.5°	2172.1	2169.7	2155.3	2170.9	2164.9
10°	2140.8	2138.4	2133.6	2144.4	2136.0
12.5°	2103.4	2101.0	2103.4	2109.5	2103.4
15°	2063.7	2067.3	2061.3	2074.5	2062.5
17.5°	2010.6	2014.2	2026.3	2031.1	2029.9
20°	1967.2	1969.6	1984.1	2003.4	1982.9
22.5°	1910.6	1916.6	1923.8	1958.8	1954.0
25°	1852.7	1861.2	1888.9	1915.4	1894.9
27.5°	1792.4	1800.9	1834.6	1853.9	1851.5
30°	1727.4	1735.8	1778.0	1804.5	1792.4
32.5°	1659.8	1674.3	1720.1	1743.0	1720.1
35°	1593.6	1600.8	1645.4	1663.5	1652.6
37.5°	1505.6	1533.3	1577.9	1589.9	1570.6
40°	1439.3	1440.5	1504.4	1504.4	1503.1
42.5°	1353.7	1373.0	1415.2	1438.1	1426.0
45°	1280.1	1286.2	1340.4	1357.3	1353.7
47.5°	1199.4	1223.5	1263.3	1282.6	1272.9
50°	1119.8	1136.7	1177.7	1203.0	1193.4
52.5°	1046.3	1059.6	1101.7	1116.2	1106.6
55°	957.1	978.8	1013.7	1028.2	1019.8
57.5°	879.9	895.6	939.0	943.8	939.0
60°	799.2	817.3	852.2	855.8	846.2
62.5°	722.0	734.1	765.4	766.6	755.8
65°	640.1	654.5	676.2	673.8	663.0
67.5°	559.3	569.0	589.4	581.0	569.0
70°	477.3	485.8	502.7	490.6	479.8
72.5°	397.8	403.8	418.3	400.2	386.9
75°	319.4	321.8	332.7	309.8	290.5
77.5°	242.3	244.7	250.7	227.8	206.1
80°	172.4	172.4	174.8	150.7	136.2
82.5°	108.5	108.5	107.3	89.2	80.8
85°	56.7	55.4	54.2	43.4	39.8
87.5°	20.5	20.5	16.9	15.7	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)