

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: P485171

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3LO-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: P485171
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-LD4-3LO-20-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

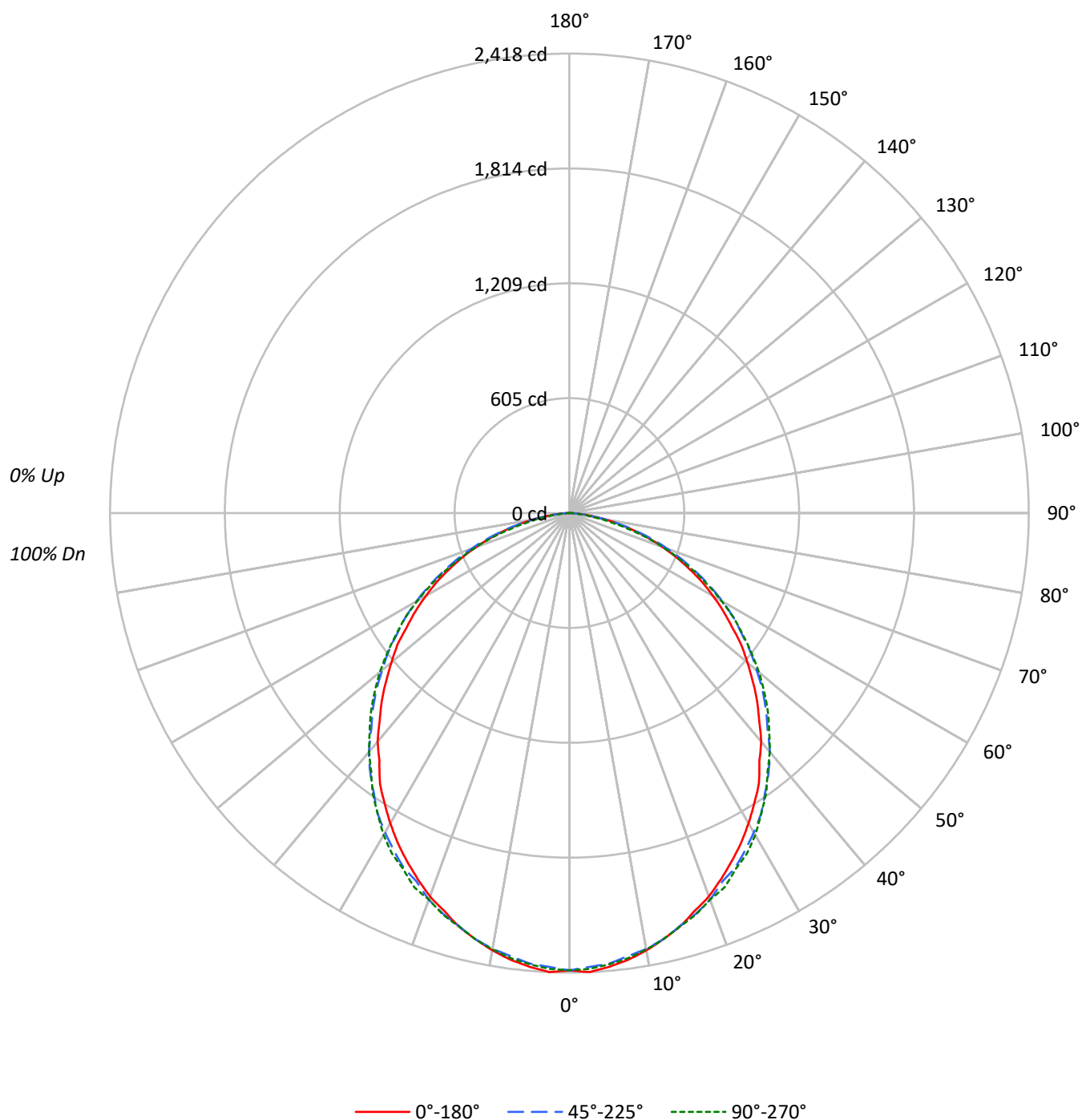
Lumens per Lamp: N/A
Luminaire Lumens: 6180.2 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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					0
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°	6475	6475	6475
5°	6475	6428	6439
10°	6384	6363	6370
15°	6274	6267	6271
20°	6148	6201	6197
25°	6004	6121	6140
30°	5858	6029	6078
35°	5713	5899	5925
40°	5518	5767	5763
45°	5317	5567	5622
50°	5116	5381	5452
55°	4900	5191	5221
60°	4694	5006	4970
65°	4448	4699	4607
70°	4098	4316	4120
75°	3624	3775	3296
80°	2915	2957	2304
85°	1908	1828	1340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.2	3.7
10°-20°	635.9	10.3
20°-30°	946.8	15.3
30°-40°	1114.4	18.0
40°-50°	1117.3	18.1
50°-60°	979.8	15.9
60°-70°	716.5	11.6
70°-80°	369.2	6.0
80°-90°	74.1	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°	1808.9	29.3
0°-40°	2923.3	47.3
0°-60°	5020.4	81.2
0°-90°	6180.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6180.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2406	2406	2406	2406	2406	
5°	2397	2381	2380	2396	2384	227
15°	2252	2256	2250	2264	2251	634
25°	2022	2031	2061	2090	2068	931
35°	1739	1747	1796	1815	1804	1083
45°	1397	1404	1463	1481	1477	1077
55°	1044	1068	1106	1122	1113	938
65°	698	714	738	735	724	691
75°	349	351	363	338	317	369
85°	62	60	59	47	43	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2406.1	2406.1	2406.1	2406.1	2406.1
2.5°	2417.9	2406.1	2390.3	2403.5	2400.8
5°	2396.9	2381.1	2379.8	2395.6	2383.7
7.5°	2370.6	2367.9	2352.2	2369.3	2362.7
10°	2336.4	2333.7	2328.5	2340.3	2331.1
12.5°	2295.6	2293.0	2295.6	2302.2	2295.6
15°	2252.2	2256.1	2249.5	2264.0	2250.9
17.5°	2194.3	2198.2	2211.4	2216.7	2215.3
20°	2146.9	2149.6	2165.3	2186.4	2164.0
22.5°	2085.1	2091.7	2099.6	2137.7	2132.5
25°	2022.0	2031.2	2061.4	2090.4	2068.0
27.5°	1956.2	1965.4	2002.2	2023.3	2020.6
30°	1885.1	1894.4	1940.4	1969.3	1956.2
32.5°	1811.5	1827.3	1877.3	1902.2	1877.3
35°	1739.1	1747.0	1795.7	1815.4	1803.6
37.5°	1643.1	1673.3	1722.0	1735.2	1714.1
40°	1570.7	1572.0	1641.8	1641.8	1640.5
42.5°	1477.3	1498.4	1544.4	1569.4	1556.3
45°	1397.1	1403.7	1462.9	1481.3	1477.3
47.5°	1308.9	1335.3	1378.7	1399.7	1389.2
50°	1222.1	1240.5	1285.3	1312.9	1302.4
52.5°	1141.9	1156.3	1202.4	1218.2	1207.6
55°	1044.5	1068.2	1106.4	1122.1	1112.9
57.5°	960.3	977.4	1024.8	1030.1	1024.8
60°	872.2	891.9	930.1	934.0	923.5
62.5°	788.0	801.2	835.4	836.7	824.8
65°	698.5	714.3	738.0	735.4	723.5
67.5°	610.4	620.9	643.3	634.1	620.9
70°	520.9	530.2	548.6	535.4	523.6
72.5°	434.1	440.7	456.5	436.8	422.3
75°	348.6	351.2	363.1	338.1	317.0
77.5°	264.4	267.1	273.6	248.6	225.0
80°	188.1	188.1	190.8	164.4	148.7
82.5°	118.4	118.4	117.1	97.3	88.1
85°	61.8	60.5	59.2	47.4	43.4
87.5°	22.4	22.4	18.4	17.1	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)