

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: P485173

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3LO-27-120-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: P485173
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-27-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

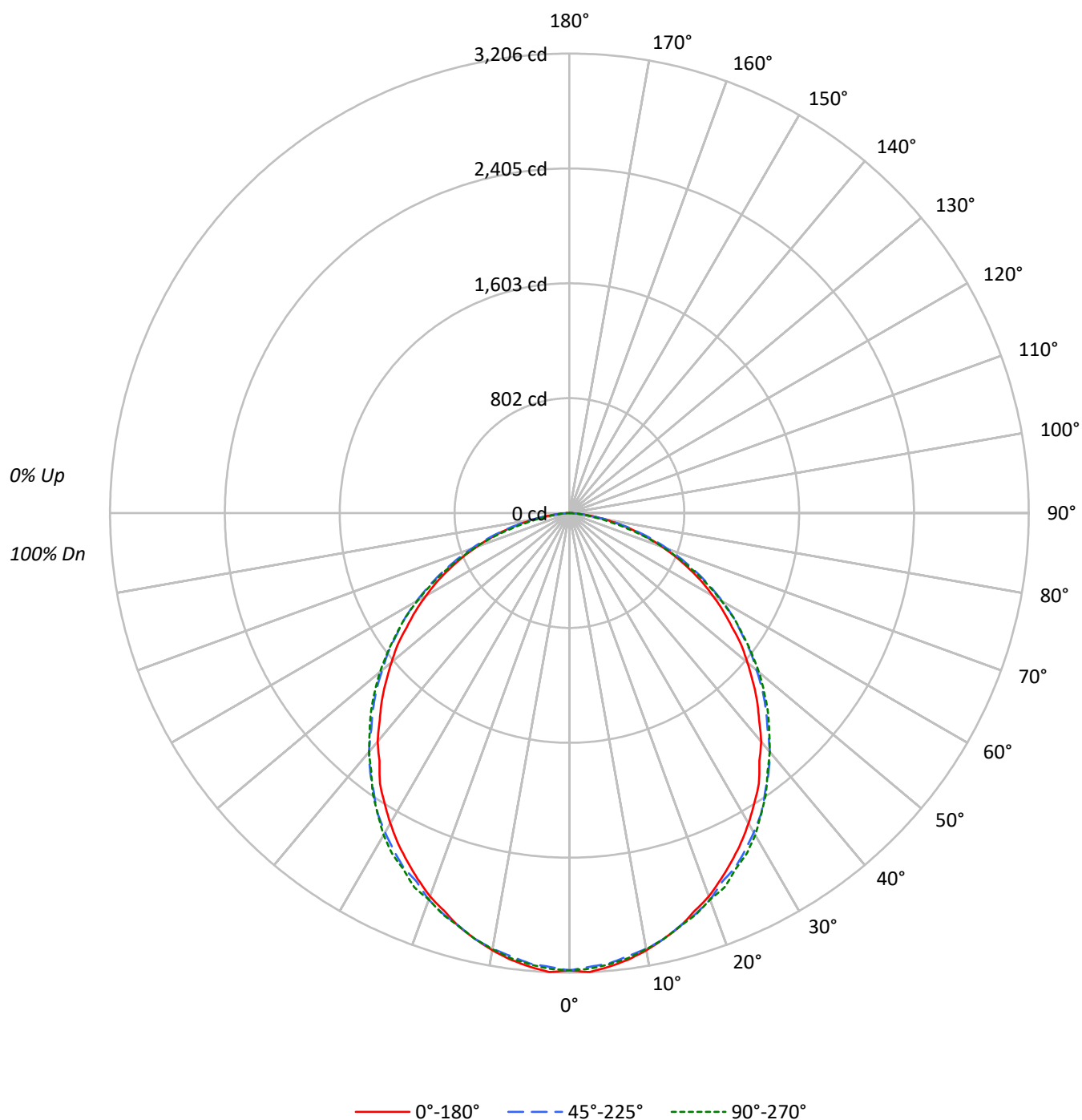
Lumens per Lamp: N/A
Luminaire Lumens: 8193.4 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	8584	8584	8584
5°	8584	8522	8537
10°	8464	8435	8445
15°	8318	8308	8313
20°	8151	8221	8216
25°	7959	8114	8141
30°	7766	7993	8058
35°	7574	7820	7855
40°	7315	7646	7640
45°	7049	7381	7454
50°	6783	7133	7228
55°	6497	6881	6922
60°	6223	6636	6589
65°	5897	6230	6108
70°	5434	5722	5461
75°	4806	5005	4370
80°	3865	3919	3054
85°	2532	2424	1778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.8	3.7
10°-20°	843.1	10.3
20°-30°	1255.2	15.3
30°-40°	1477.4	18.0
40°-50°	1481.3	18.1
50°-60°	1299.0	15.9
60°-70°	949.8	11.6
70°-80°	489.5	6.0
80°-90°	98.2	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°	2398.1	29.3
0°-40°	3875.5	47.3
0°-60°	6655.8	81.2
0°-90°	8193.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8193.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3190	3190	3190	3190	3190	
5°	3178	3157	3155	3176	3160	301
15°	2986	2991	2982	3002	2984	840
25°	2681	2693	2733	2771	2742	1235
35°	2306	2316	2381	2407	2391	1436
45°	1852	1861	1939	1964	1959	1427
55°	1385	1416	1467	1488	1476	1243
65°	926	947	978	975	959	916
75°	462	466	481	448	420	490
85°	82	80	78	63	58	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3189.9	3189.9	3189.9	3189.9	3189.9
2.5°	3205.6	3189.9	3168.9	3186.4	3182.9
5°	3177.7	3156.7	3155.0	3175.9	3160.2
7.5°	3142.8	3139.3	3118.4	3141.0	3132.3
10°	3097.4	3094.0	3087.0	3102.7	3090.5
12.5°	3043.4	3039.9	3043.4	3052.1	3043.4
15°	2985.8	2991.1	2982.3	3001.5	2984.1
17.5°	2909.1	2914.3	2931.8	2938.7	2937.0
20°	2846.3	2849.8	2870.7	2898.6	2869.0
22.5°	2764.3	2773.0	2783.5	2834.1	2827.1
25°	2680.6	2692.8	2732.9	2771.3	2741.7
27.5°	2593.4	2605.6	2654.4	2682.4	2678.9
30°	2499.2	2511.4	2572.5	2610.8	2593.4
32.5°	2401.6	2422.5	2488.8	2521.9	2488.8
35°	2305.6	2316.1	2380.6	2406.8	2391.1
37.5°	2178.3	2218.4	2283.0	2300.4	2272.5
40°	2082.4	2084.1	2176.6	2176.6	2174.8
42.5°	1958.6	1986.5	2047.5	2080.7	2063.2
45°	1852.2	1860.9	1939.4	1963.8	1958.6
47.5°	1735.3	1770.2	1827.8	1855.7	1841.7
50°	1620.2	1644.6	1703.9	1740.6	1726.6
52.5°	1513.8	1533.0	1594.1	1615.0	1601.0
55°	1384.8	1416.2	1466.7	1487.7	1475.5
57.5°	1273.2	1295.8	1358.6	1365.6	1358.6
60°	1156.3	1182.5	1233.0	1238.3	1224.3
62.5°	1044.7	1062.1	1107.5	1109.2	1093.5
65°	926.1	947.0	978.4	974.9	959.2
67.5°	809.2	823.2	852.8	840.6	823.2
70°	690.6	702.9	727.3	709.8	694.1
72.5°	575.5	584.3	605.2	579.0	559.8
75°	462.2	465.7	481.4	448.2	420.3
77.5°	350.6	354.0	362.8	329.6	298.2
80°	249.4	249.4	252.9	218.0	197.1
82.5°	157.0	157.0	155.2	129.1	116.9
85°	82.0	80.2	78.5	62.8	57.6
87.5°	29.6	29.6	24.4	22.7	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)