

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: P485107

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1LO-40-120-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: P485107
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-LD4-1LO-40-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

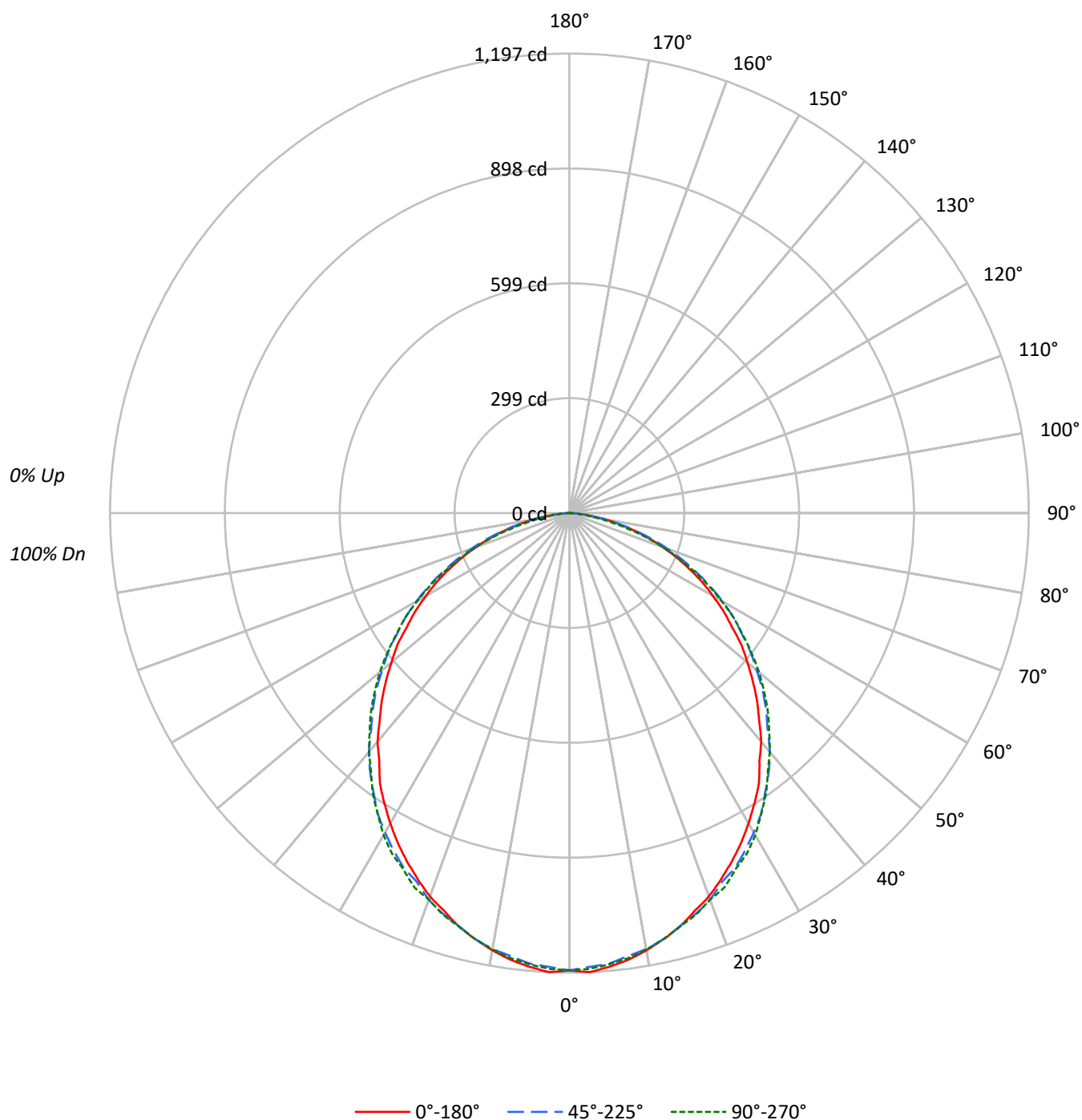
Lumens per Lamp: N/A
Luminaire Lumens: 3059.8 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	3205	3205	3205
5°	3206	3183	3188
10°	3161	3150	3154
15°	3106	3103	3105
20°	3044	3070	3068
25°	2972	3030	3040
30°	2900	2985	3009
35°	2828	2920	2933
40°	2732	2855	2853
45°	2632	2756	2783
50°	2533	2664	2699
55°	2426	2570	2585
60°	2324	2478	2461
65°	2202	2327	2281
70°	2029	2137	2039
75°	1795	1869	1632
80°	1443	1463	1141
85°	945	905	664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	3.7
10°-20°	314.8	10.3
20°-30°	468.7	15.3
30°-40°	551.7	18.0
40°-50°	553.2	18.1
50°-60°	485.1	15.9
60°-70°	354.7	11.6
70°-80°	182.8	6.0
80°-90°	36.7	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°	895.6	29.3
0°-40°	1447.3	47.3
0°-60°	2485.6	81.2
0°-90°	3059.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3059.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1191	1191	1191	1191	1191	
5°	1187	1179	1178	1186	1180	112
15°	1115	1117	1114	1121	1114	314
25°	1001	1006	1021	1035	1024	461
35°	861	865	889	899	893	536
45°	692	695	724	733	731	533
55°	517	529	548	556	551	464
65°	346	354	365	364	358	342
75°	173	174	180	167	157	183
85°	31	30	29	23	22	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1191.2	1191.2	1191.2	1191.2	1191.2
2.5°	1197.1	1191.2	1183.4	1189.9	1188.6
5°	1186.7	1178.9	1178.2	1186.0	1180.2
7.5°	1173.7	1172.4	1164.5	1173.0	1169.8
10°	1156.7	1155.4	1152.8	1158.7	1154.1
12.5°	1136.5	1135.2	1136.5	1139.8	1136.5
15°	1115.0	1117.0	1113.7	1120.9	1114.4
17.5°	1086.4	1088.3	1094.9	1097.5	1096.8
20°	1062.9	1064.2	1072.1	1082.5	1071.4
22.5°	1032.3	1035.6	1039.5	1058.4	1055.8
25°	1001.1	1005.6	1020.6	1034.9	1023.9
27.5°	968.5	973.1	991.3	1001.7	1000.4
30°	933.3	937.9	960.7	975.0	968.5
32.5°	896.9	904.7	929.4	941.8	929.4
35°	861.0	864.9	889.0	898.8	892.9
37.5°	813.5	828.5	852.6	859.1	848.7
40°	777.7	778.3	812.8	812.8	812.2
42.5°	731.4	741.8	764.6	777.0	770.5
45°	691.7	694.9	724.3	733.4	731.4
47.5°	648.1	661.1	682.6	693.0	687.8
50°	605.1	614.2	636.3	650.0	644.8
52.5°	565.3	572.5	595.3	603.1	597.9
55°	517.1	528.9	547.8	555.6	551.0
57.5°	475.5	483.9	507.4	510.0	507.4
60°	431.8	441.6	460.5	462.4	457.2
62.5°	390.1	396.6	413.6	414.2	408.4
65°	345.8	353.7	365.4	364.1	358.2
67.5°	302.2	307.4	318.5	313.9	307.4
70°	257.9	262.5	271.6	265.1	259.2
72.5°	214.9	218.2	226.0	216.2	209.1
75°	172.6	173.9	179.8	167.4	157.0
77.5°	130.9	132.2	135.5	123.1	111.4
80°	93.1	93.1	94.4	81.4	73.6
82.5°	58.6	58.6	58.0	48.2	43.6
85°	30.6	30.0	29.3	23.4	21.5
87.5°	11.1	11.1	9.1	8.5	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)