

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: P485110

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1STD-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: P485110
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-LD4-1STD-20-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

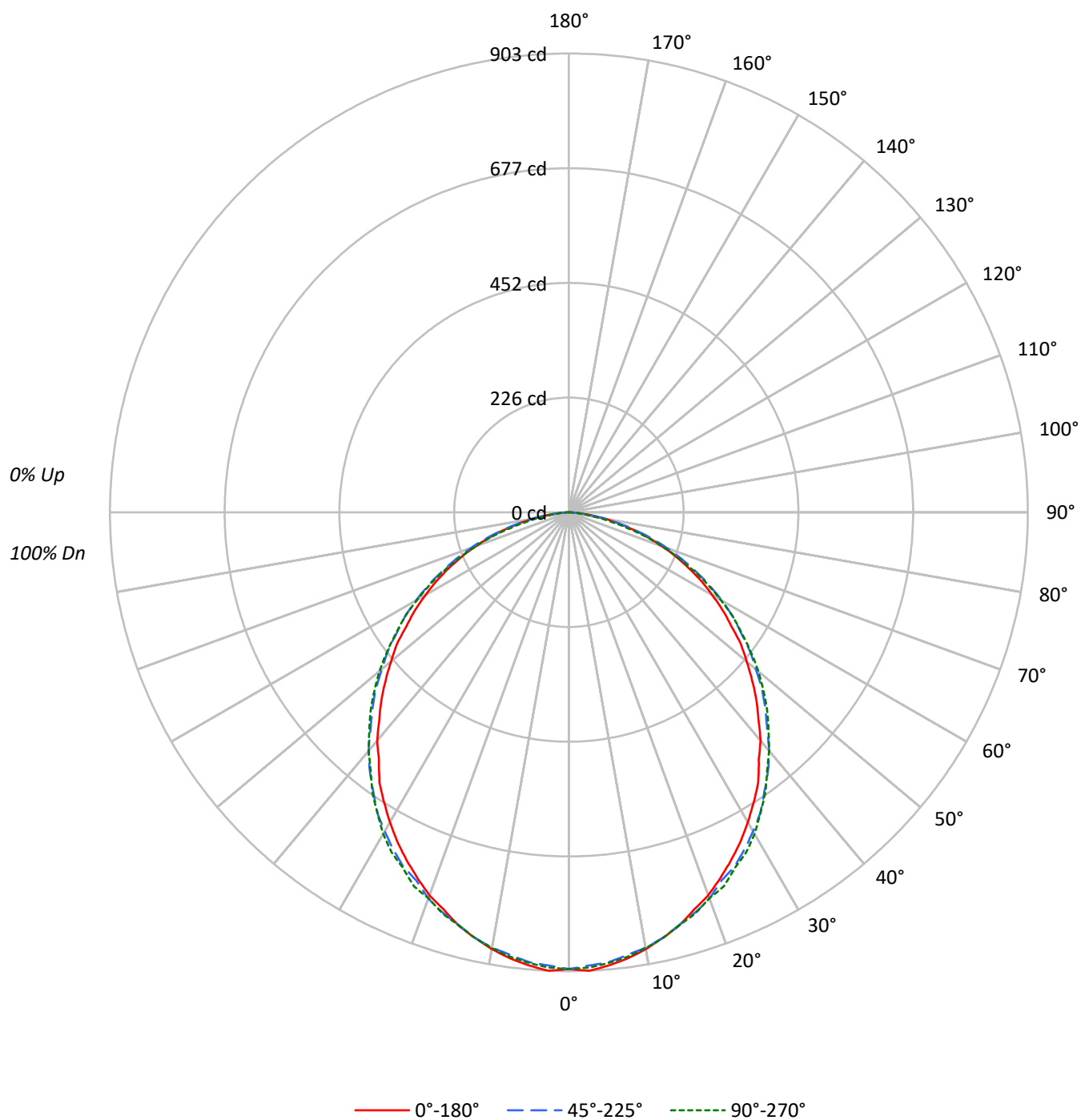
Lumens per Lamp: N/A
Luminaire Lumens: 2308.4 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	2418	2418	2418
5°	2418	2401	2405
10°	2385	2376	2379
15°	2344	2341	2342
20°	2296	2316	2315
25°	2242	2286	2293
30°	2188	2252	2270
35°	2134	2203	2213
40°	2061	2154	2152
45°	1986	2079	2100
50°	1911	2010	2037
55°	1830	1939	1950
60°	1753	1870	1856
65°	1661	1755	1721
70°	1531	1612	1539
75°	1354	1410	1231
80°	1089	1103	860
85°	713	682	500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	3.7
10°-20°	237.5	10.3
20°-30°	353.6	15.3
30°-40°	416.2	18.0
40°-50°	417.3	18.1
50°-60°	366.0	15.9
60°-70°	267.6	11.6
70°-80°	137.9	6.0
80°-90°	27.7	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°	675.6	29.3
0°-40°	1091.9	47.3
0°-60°	1875.2	81.2
0°-90°	2308.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2308.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	895	889	889	895	890	85
15°	841	843	840	846	841	237
25°	755	759	770	781	772	348
35°	650	652	671	678	674	405
45°	522	524	546	553	552	402
55°	390	399	413	419	416	350
65°	261	267	276	275	270	258
75°	130	131	136	126	118	138
85°	23	23	22	18	16	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	898.7	898.7	898.7	898.7	898.7
2.5°	903.1	898.7	892.8	897.7	896.7
5°	895.3	889.4	888.9	894.8	890.4
7.5°	885.4	884.5	878.6	885.0	882.5
10°	872.7	871.7	869.7	874.1	870.7
12.5°	857.4	856.5	857.4	859.9	857.4
15°	841.2	842.7	840.2	845.6	840.7
17.5°	819.6	821.1	826.0	828.0	827.5
20°	801.9	802.9	808.8	816.7	808.3
22.5°	778.8	781.3	784.2	798.5	796.5
25°	755.2	758.7	770.0	780.8	772.4
27.5°	730.7	734.1	747.9	755.7	754.7
30°	704.1	707.6	724.8	735.6	730.7
32.5°	676.6	682.5	701.2	710.5	701.2
35°	649.6	652.5	670.7	678.1	673.7
37.5°	613.7	625.0	643.2	648.1	640.3
40°	586.7	587.2	613.2	613.2	612.7
42.5°	551.8	559.7	576.9	586.2	581.3
45°	521.8	524.3	546.4	553.3	551.8
47.5°	488.9	498.7	515.0	522.8	518.9
50°	456.5	463.4	480.1	490.4	486.5
52.5°	426.5	431.9	449.1	455.0	451.1
55°	390.1	399.0	413.2	419.1	415.7
57.5°	358.7	365.1	382.8	384.7	382.8
60°	325.8	333.1	347.4	348.9	344.9
62.5°	294.3	299.2	312.0	312.5	308.1
65°	260.9	266.8	275.7	274.7	270.3
67.5°	228.0	231.9	240.3	236.8	231.9
70°	194.6	198.0	204.9	200.0	195.6
72.5°	162.2	164.6	170.5	163.1	157.7
75°	130.2	131.2	135.6	126.3	118.4
77.5°	98.8	99.7	102.2	92.9	84.0
80°	70.3	70.3	71.2	61.4	55.5
82.5°	44.2	44.2	43.7	36.4	32.9
85°	23.1	22.6	22.1	17.7	16.2
87.5°	8.4	8.4	6.9	6.4	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)