

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: P485102

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1LO-30-120-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: P485102
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-30-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

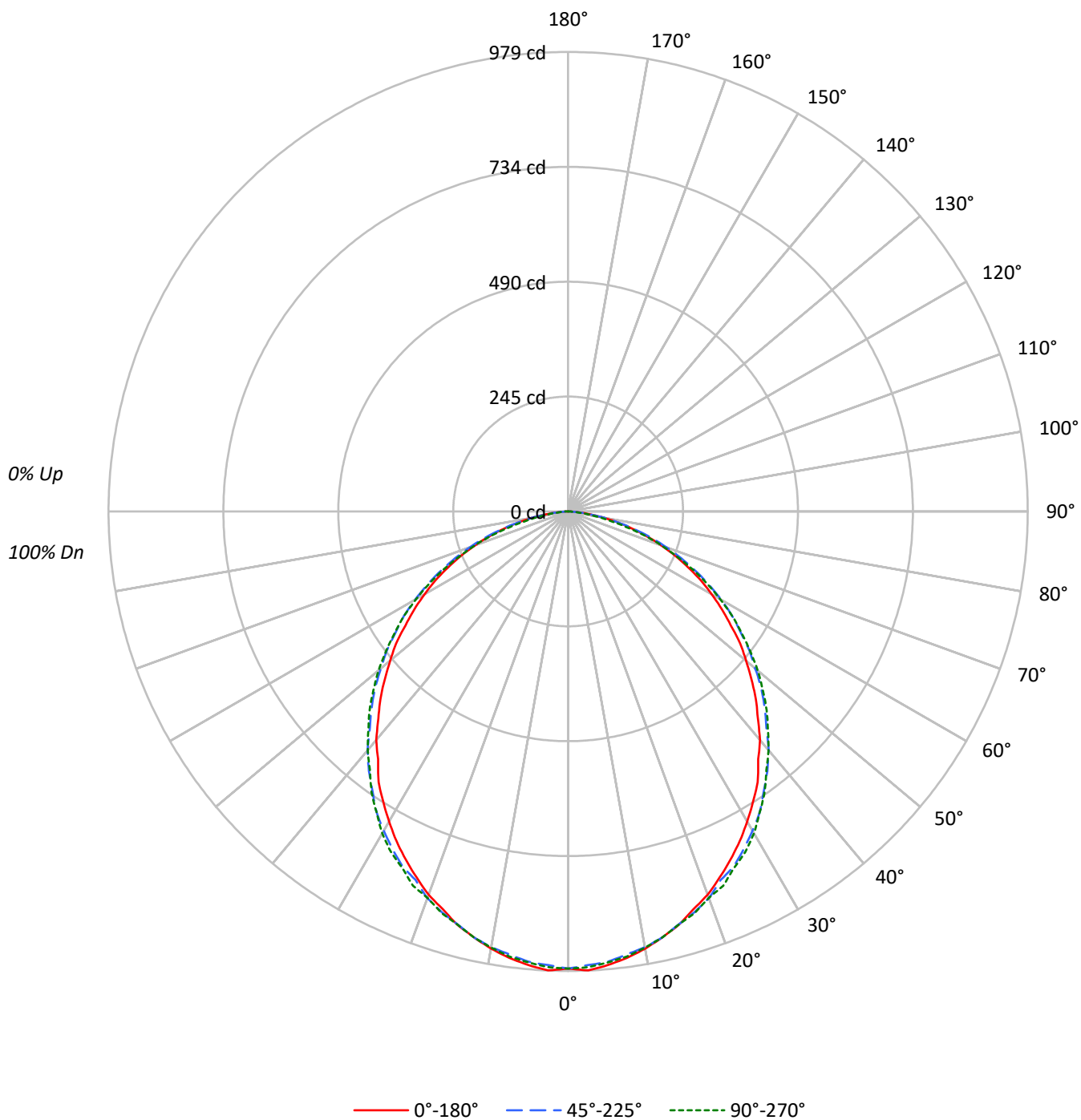
Lumens per Lamp: N/A
Luminaire Lumens: 2501.5 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1LO-30-120-EDD-90

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°	2621	2621	2621
5°	2621	2602	2606
10°	2584	2575	2578
15°	2540	2537	2538
20°	2489	2510	2508
25°	2430	2477	2485
30°	2371	2440	2460
35°	2312	2388	2398
40°	2233	2334	2333
45°	2152	2253	2276
50°	2071	2178	2207
55°	1984	2101	2114
60°	1900	2026	2012
65°	1800	1902	1865
70°	1659	1747	1667
75°	1467	1528	1334
80°	1179	1196	933
85°	772	741	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	3.7
10°-20°	257.4	10.3
20°-30°	383.2	15.3
30°-40°	451.1	18.0
40°-50°	452.2	18.1
50°-60°	396.6	15.9
60°-70°	290.0	11.6
70°-80°	149.5	6.0
80°-90°	30.0	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°	732.2	29.3
0°-40°	1183.2	47.3
0°-60°	2032.1	81.2
0°-90°	2501.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2501.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	974	974	974	974	974	
5°	970	964	963	970	965	92
15°	912	913	910	916	911	257
25°	818	822	834	846	837	377
35°	704	707	727	735	730	438
45°	566	568	592	600	598	436
55°	423	432	448	454	450	380
65°	283	289	299	298	293	280
75°	141	142	147	137	128	150
85°	25	24	24	19	18	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	973.9	973.9	973.9	973.9	973.9
2.5°	978.7	973.9	967.5	972.8	971.8
5°	970.2	963.8	963.2	969.6	964.8
7.5°	959.5	958.4	952.1	959.0	956.3
10°	945.7	944.6	942.5	947.3	943.5
12.5°	929.2	928.1	929.2	931.8	929.2
15°	911.6	913.2	910.5	916.4	911.1
17.5°	888.2	889.8	895.1	897.2	896.7
20°	869.0	870.1	876.4	885.0	875.9
22.5°	844.0	846.6	849.8	865.3	863.1
25°	818.4	822.1	834.4	846.1	837.0
27.5°	791.8	795.5	810.4	818.9	817.9
30°	763.0	766.8	785.4	797.1	791.8
32.5°	733.2	739.6	759.8	770.0	759.8
35°	703.9	707.1	726.8	734.8	730.0
37.5°	665.1	677.3	697.0	702.3	693.8
40°	635.8	636.3	664.5	664.5	664.0
42.5°	598.0	606.5	625.1	635.2	629.9
45°	565.5	568.1	592.1	599.6	598.0
47.5°	529.8	540.5	558.0	566.5	562.3
50°	494.7	502.1	520.2	531.4	527.1
52.5°	462.2	468.0	486.7	493.1	488.8
55°	422.8	432.4	447.8	454.2	450.5
57.5°	388.7	395.6	414.8	416.9	414.8
60°	353.0	361.0	376.5	378.1	373.8
62.5°	319.0	324.3	338.1	338.7	333.9
65°	282.7	289.1	298.7	297.7	292.9
67.5°	247.1	251.3	260.4	256.7	251.3
70°	210.9	214.6	222.0	216.7	211.9
72.5°	175.7	178.4	184.8	176.8	170.9
75°	141.1	142.2	147.0	136.8	128.3
77.5°	107.0	108.1	110.8	100.6	91.1
80°	76.1	76.1	77.2	66.6	60.2
82.5°	47.9	47.9	47.4	39.4	35.7
85°	25.0	24.5	24.0	19.2	17.6
87.5°	9.1	9.1	7.5	6.9	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)