

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: P485166

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3HI-40-120-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: P485166
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-LD4-3HI-40-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

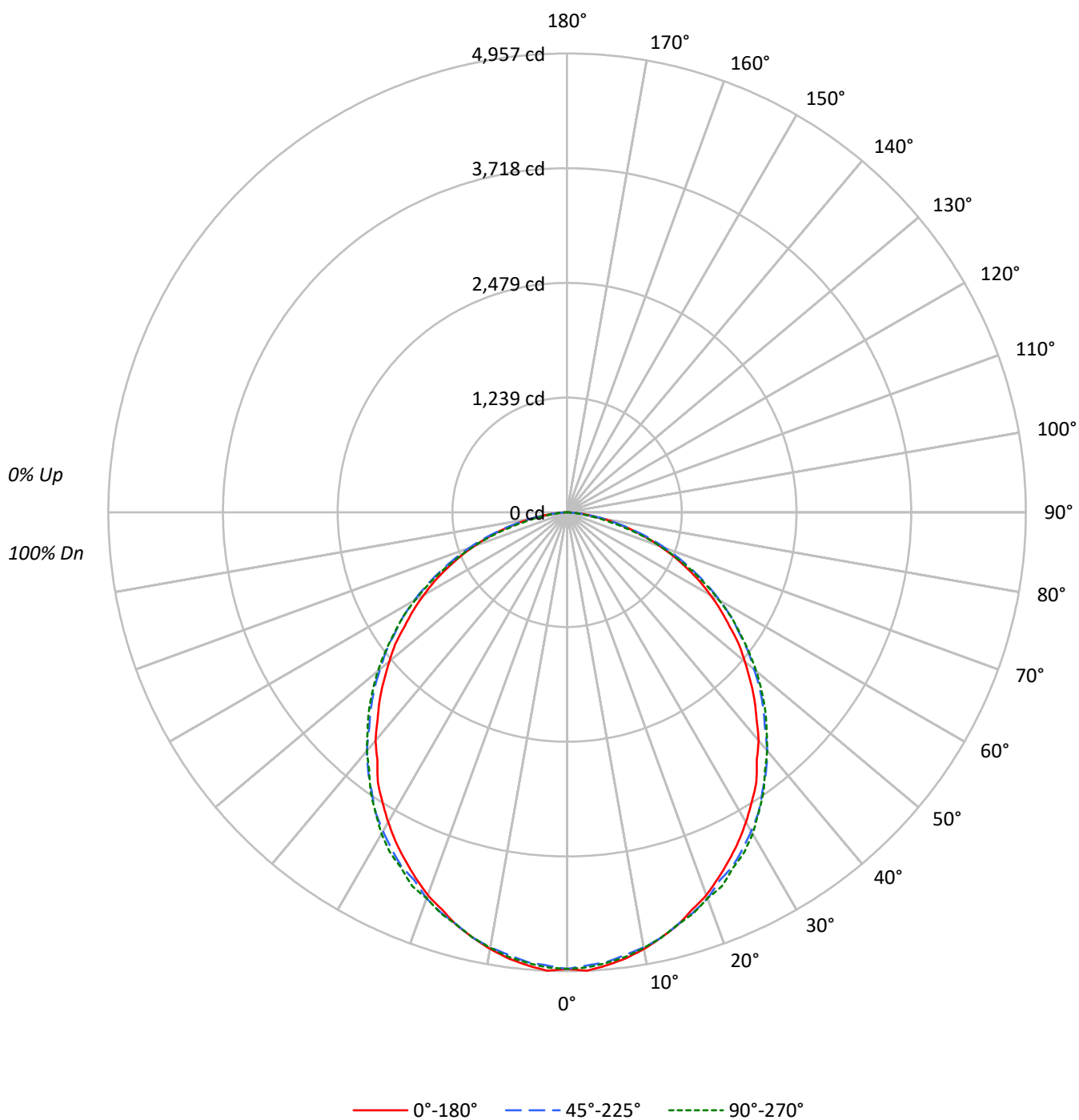
Lumens per Lamp: N/A
Luminaire Lumens: 12669.0 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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°	13273	13273	13273
5°	13272	13178	13200
10°	13087	13043	13057
15°	12862	12847	12854
20°	12603	12711	12704
25°	12307	12547	12587
30°	12008	12360	12460
35°	11712	12092	12146
40°	11311	11822	11813
45°	10899	11412	11525
50°	10488	11030	11177
55°	10046	10640	10703
60°	9622	10261	10189
65°	9118	9633	9444
70°	8402	8847	8445
75°	7430	7739	6757
80°	5976	6059	4722
85°	3912	3748	2748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.6	3.7
10°-20°	1303.6	10.3
20°-30°	1940.8	15.3
30°-40°	2284.5	18.0
40°-50°	2290.5	18.1
50°-60°	2008.5	15.9
60°-70°	1468.7	11.6
70°-80°	756.9	6.0
80°-90°	151.9	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°	3708.0	29.3
0°-40°	5992.5	47.3
0°-60°	10291.5	81.2
0°-90°	12669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12669.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4932	4932	4932	4932	4932	
5°	4913	4881	4878	4911	4886	465
15°	4617	4625	4611	4641	4614	1299
25°	4145	4164	4226	4285	4239	1909
35°	3565	3581	3681	3722	3697	2220
45°	2864	2877	2999	3036	3028	2207
55°	2141	2190	2268	2300	2281	1922
65°	1432	1464	1513	1508	1483	1416
75°	715	720	744	693	650	757
85°	127	124	121	97	89	165
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4932.3	4932.3	4932.3	4932.3	4932.3
2.5°	4956.6	4932.3	4900.0	4926.9	4921.5
5°	4913.4	4881.1	4878.4	4910.8	4886.5
7.5°	4859.5	4854.1	4821.8	4856.8	4843.3
10°	4789.4	4784.0	4773.2	4797.5	4778.6
12.5°	4705.8	4700.4	4705.8	4719.3	4705.8
15°	4616.8	4624.9	4611.4	4641.1	4614.1
17.5°	4498.2	4506.2	4533.2	4544.0	4541.3
20°	4401.1	4406.5	4438.8	4482.0	4436.1
22.5°	4274.3	4287.8	4304.0	4382.2	4371.4
25°	4144.9	4163.8	4225.8	4285.1	4239.3
27.5°	4010.0	4028.9	4104.4	4147.6	4142.2
30°	3864.4	3883.3	3977.7	4037.0	4010.0
32.5°	3713.4	3745.8	3848.2	3899.5	3848.2
35°	3565.1	3581.3	3681.0	3721.5	3697.2
37.5°	3368.2	3430.2	3530.0	3557.0	3513.8
40°	3219.9	3222.6	3365.5	3365.5	3362.8
42.5°	3028.4	3071.6	3166.0	3217.2	3190.2
45°	2863.9	2877.4	2998.8	3036.5	3028.4
47.5°	2683.2	2737.2	2826.2	2869.3	2847.8
50°	2505.3	2543.0	2634.7	2691.3	2669.8
52.5°	2340.8	2370.4	2464.8	2497.2	2475.6
55°	2141.2	2189.7	2268.0	2300.3	2281.4
57.5°	1968.6	2003.7	2100.8	2111.5	2100.8
60°	1787.9	1828.4	1906.6	1914.7	1893.1
62.5°	1615.3	1642.3	1712.4	1715.1	1690.9
65°	1432.0	1464.3	1512.9	1507.5	1483.2
67.5°	1251.3	1272.9	1318.7	1299.8	1272.9
70°	1067.9	1086.8	1124.5	1097.6	1073.3
72.5°	889.9	903.4	935.8	895.3	865.7
75°	714.6	720.0	744.3	693.1	649.9
77.5°	542.0	547.4	560.9	509.7	461.1
80°	385.6	385.6	391.0	337.1	304.7
82.5°	242.7	242.7	240.0	199.6	180.7
85°	126.7	124.0	121.4	97.1	89.0
87.5°	45.8	45.8	37.8	35.1	37.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)