

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: P487300

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5LO-35-120-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: P487300
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-24-4-INS-A125-LD4-5LO-35-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

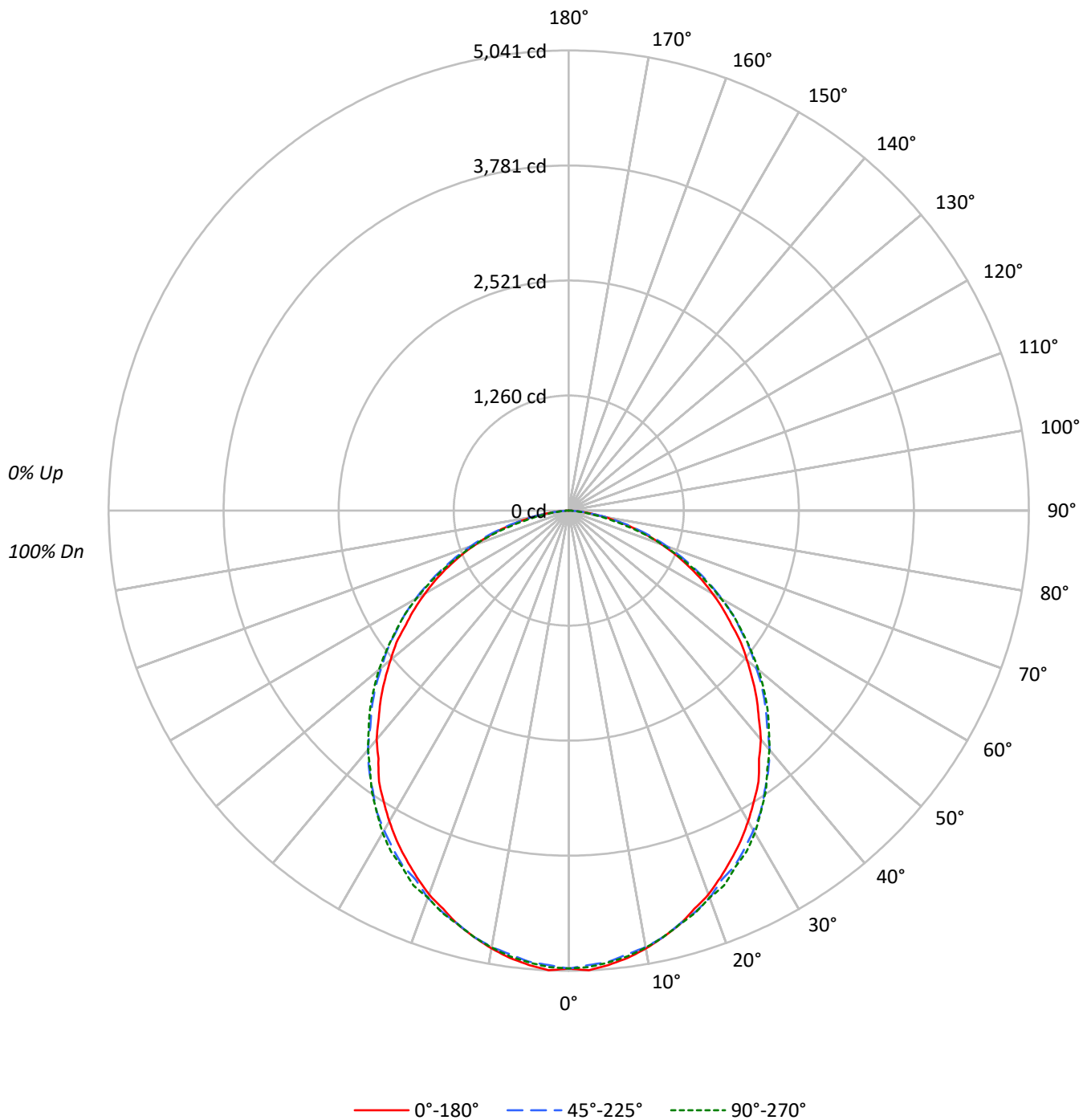
Lumens per Lamp: N/A
Luminaire Lumens: 12884.5 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71
4	83	72	63	57	81	70	62	56	68	61	55		66	59	55		63
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6749	6749	6749
5°	6749	6701	6712
10°	6655	6632	6640
15°	6540	6533	6537
20°	6409	6464	6460
25°	6258	6380	6401
30°	6106	6285	6336
35°	5955	6149	6176
40°	5752	6012	6007
45°	5542	5803	5860
50°	5333	5609	5683
55°	5108	5411	5443
60°	4893	5218	5181
65°	4636	4898	4802
70°	4273	4499	4294
75°	3778	3935	3436
80°	3039	3082	2401
85°	1990	1905	1397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.5	3.7
10°-20°	1325.8	10.3
20°-30°	1973.8	15.3
30°-40°	2323.3	18.0
40°-50°	2329.4	18.1
50°-60°	2042.7	15.9
60°-70°	1493.7	11.6
70°-80°	769.8	6.0
80°-90°	154.4	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°	3771.1	29.3
0°-40°	6094.4	47.3
0°-60°	10466.6	81.2
0°-90°	12884.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12884.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5016	5016	5016	5016	5016	
5°	4997	4964	4961	4994	4970	473
15°	4695	4704	4690	4720	4693	1321
25°	4215	4235	4298	4358	4311	1942
35°	3626	3642	3744	3785	3760	2258
45°	2913	2926	3050	3088	3080	2245
55°	2178	2227	2306	2339	2320	1955
65°	1456	1489	1539	1533	1508	1441
75°	727	732	757	705	661	770
85°	129	126	123	99	90	168
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5016.2	5016.2	5016.2	5016.2	5016.2
2.5°	5040.9	5016.2	4983.3	5010.7	5005.3
5°	4997.0	4964.1	4961.4	4994.3	4969.6
7.5°	4942.2	4936.7	4903.8	4939.4	4925.7
10°	4870.9	4865.4	4854.4	4879.1	4859.9
12.5°	4785.8	4780.4	4785.8	4799.6	4785.8
15°	4695.3	4703.6	4689.9	4720.0	4692.6
17.5°	4574.7	4582.9	4610.3	4621.3	4618.5
20°	4475.9	4481.4	4514.3	4558.2	4511.6
22.5°	4347.0	4360.7	4377.2	4456.7	4445.8
25°	4215.4	4234.6	4297.7	4358.0	4311.4
27.5°	4078.3	4097.5	4174.2	4218.1	4212.6
30°	3930.2	3949.4	4045.3	4105.7	4078.3
32.5°	3776.6	3809.5	3913.7	3965.8	3913.7
35°	3625.7	3642.2	3743.7	3784.8	3760.1
37.5°	3425.5	3488.6	3590.1	3617.5	3573.6
40°	3274.7	3277.4	3422.8	3422.8	3420.0
42.5°	3079.9	3123.8	3219.8	3271.9	3244.5
45°	2912.6	2926.4	3049.8	3088.2	3079.9
47.5°	2728.9	2783.7	2874.3	2918.1	2896.2
50°	2547.9	2586.3	2679.5	2737.1	2715.2
52.5°	2380.6	2410.7	2506.7	2539.7	2517.7
55°	2177.6	2227.0	2306.5	2339.4	2320.2
57.5°	2002.1	2037.8	2136.5	2147.5	2136.5
60°	1818.3	1859.5	1939.0	1947.2	1925.3
62.5°	1642.8	1670.2	1741.6	1744.3	1719.6
65°	1456.3	1489.2	1538.6	1533.1	1508.4
67.5°	1272.6	1294.5	1341.1	1321.9	1294.5
70°	1086.1	1105.3	1143.7	1116.2	1091.6
72.5°	905.1	918.8	951.7	910.5	880.4
75°	726.8	732.3	757.0	704.8	661.0
77.5°	551.3	556.7	570.5	518.4	469.0
80°	392.2	392.2	397.7	342.8	309.9
82.5°	246.8	246.8	244.1	203.0	183.8
85°	128.9	126.2	123.4	98.7	90.5
87.5°	46.6	46.6	38.4	35.7	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)