

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: P487254

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4HI-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: P487254
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-LD4-4HI-40-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

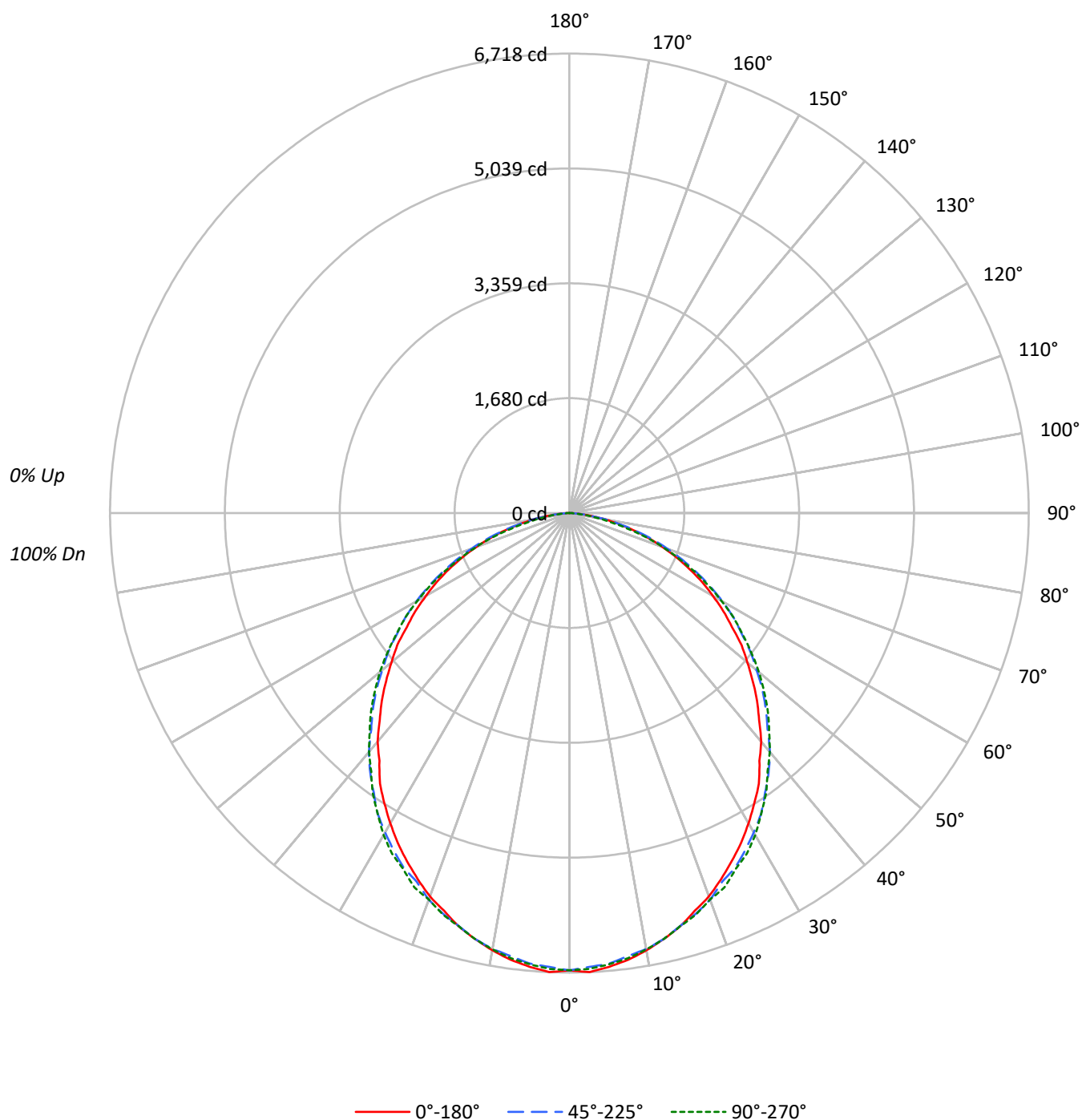
Lumens per Lamp: N/A
Luminaire Lumens: 17171.5 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 176
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°	8995	8995	8995
5°	8995	8930	8945
10°	8869	8839	8849
15°	8717	8706	8711
20°	8541	8615	8609
25°	8340	8503	8530
30°	8138	8376	8444
35°	7937	8195	8231
40°	7665	8012	8006
45°	7386	7734	7810
50°	7108	7475	7574
55°	6808	7211	7254
60°	6521	6954	6905
65°	6179	6528	6400
70°	5694	5996	5723
75°	5035	5244	4579
80°	4050	4107	3200
85°	2652	2540	1862



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.4	3.7
10°-20°	1766.9	10.3
20°-30°	2630.6	15.3
30°-40°	3096.4	18.0
40°-50°	3104.5	18.1
50°-60°	2722.4	15.9
60°-70°	1990.7	11.6
70°-80°	1025.9	6.0
80°-90°	205.8	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°	5025.9	29.3
0°-40°	8122.2	47.3
0°-60°	13949.1	81.2
0°-90°	17171.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17171.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6685	6685	6685	6685	6685	
5°	6660	6616	6612	6656	6623	630
15°	6258	6269	6250	6290	6254	1761
25°	5618	5644	5728	5808	5746	2588
35°	4832	4854	4989	5044	5011	3009
45°	3882	3900	4064	4116	4105	2992
55°	2902	2968	3074	3118	3092	2605
65°	1941	1985	2050	2043	2010	1920
75°	969	976	1009	939	881	1026
85°	172	168	164	132	121	224
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6685.2	6685.2	6685.2	6685.2	6685.2
2.5°	6718.1	6685.2	6641.4	6677.9	6670.6
5°	6659.7	6615.8	6612.1	6656.0	6623.1
7.5°	6586.6	6579.3	6535.4	6582.9	6564.6
10°	6491.5	6484.2	6469.6	6502.5	6476.9
12.5°	6378.2	6370.9	6378.2	6396.5	6378.2
15°	6257.6	6268.6	6250.3	6290.5	6253.9
17.5°	6096.8	6107.7	6144.3	6158.9	6155.3
20°	5965.2	5972.5	6016.4	6074.8	6012.7
22.5°	5793.4	5811.7	5833.6	5939.6	5925.0
25°	5617.9	5643.5	5727.6	5808.0	5745.9
27.5°	5435.2	5460.8	5563.1	5621.6	5614.3
30°	5237.8	5263.4	5391.3	5471.7	5435.2
32.5°	5033.1	5077.0	5215.9	5285.3	5215.9
35°	4832.1	4854.0	4989.3	5044.1	5011.2
37.5°	4565.3	4649.3	4784.6	4821.1	4762.6
40°	4364.2	4367.9	4561.6	4561.6	4558.0
42.5°	4104.7	4163.2	4291.1	4360.6	4324.0
45°	3881.8	3900.0	4064.5	4115.7	4104.7
47.5°	3636.9	3710.0	3830.6	3889.1	3859.8
50°	3395.6	3446.8	3571.1	3647.8	3618.6
52.5°	3172.7	3212.9	3340.8	3384.7	3355.4
55°	2902.2	2968.0	3074.0	3117.8	3092.2
57.5°	2668.3	2715.8	2847.4	2862.0	2847.4
60°	2423.4	2478.2	2584.2	2595.1	2565.9
62.5°	2189.4	2226.0	2321.0	2324.7	2291.8
65°	1940.9	1984.7	2050.5	2043.2	2010.3
67.5°	1696.0	1725.2	1787.4	1761.8	1725.2
70°	1447.4	1473.0	1524.2	1487.6	1454.7
72.5°	1206.2	1224.5	1268.3	1213.5	1173.3
75°	968.6	975.9	1008.8	939.4	880.9
77.5°	734.7	742.0	760.3	690.8	625.0
80°	522.7	522.7	530.0	456.9	413.0
82.5°	329.0	329.0	325.3	270.5	244.9
85°	171.8	168.1	164.5	131.6	120.6
87.5°	62.1	62.1	51.2	47.5	51.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)