

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: P487255

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4HI-40-120-EDD**

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: P487255
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
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

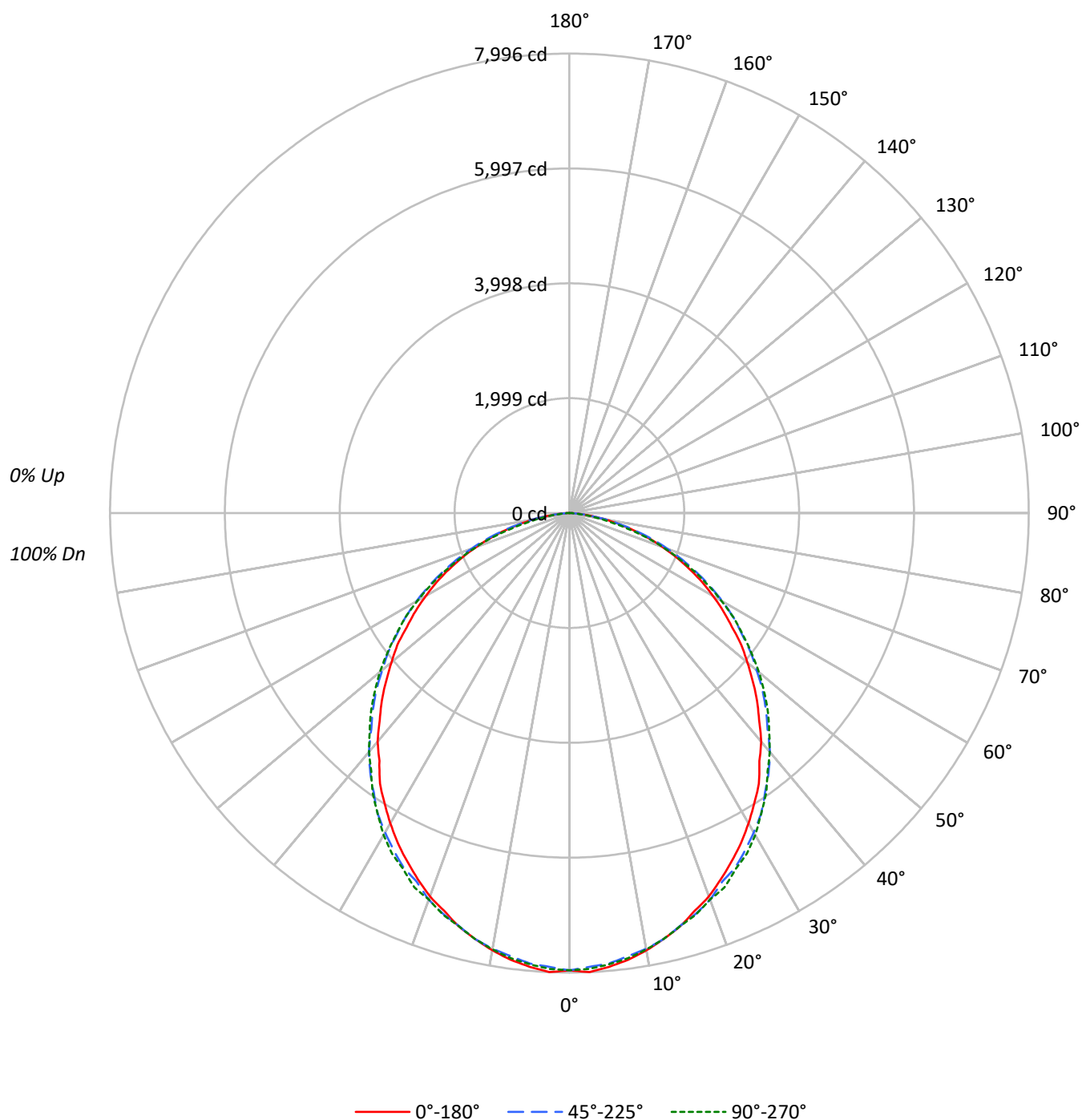
Lumens per Lamp: N/A
Luminaire Lumens: 20436.8 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	10705	10705	10705
5°	10705	10629	10646
10°	10555	10520	10532
15°	10374	10362	10368
20°	10165	10253	10246
25°	9926	10120	10152
30°	9685	9969	10050
35°	9446	9753	9796
40°	9123	9536	9528
45°	8791	9205	9296
50°	8459	8896	9015
55°	8103	8582	8633
60°	7761	8276	8218
65°	7354	7770	7617
70°	6777	7136	6811
75°	5993	6242	5450
80°	4820	4888	3809
85°	3157	3023	2217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	747.9	3.7
10°-20°	2102.9	10.3
20°-30°	3130.8	15.3
30°-40°	3685.1	18.0
40°-50°	3694.8	18.1
50°-60°	3240.0	15.9
60°-70°	2369.2	11.6
70°-80°	1221.0	6.0
80°-90°	245.0	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°	5981.6	29.3
0°-40°	9666.7	47.3
0°-60°	16601.6	81.2
0°-90°	20436.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20436.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7956	7956	7956	7956	7956	
5°	7926	7874	7870	7922	7883	750
15°	7448	7461	7439	7487	7443	2096
25°	6686	6717	6817	6912	6838	3080
35°	5751	5777	5938	6003	5964	3582
45°	4620	4642	4837	4898	4885	3560
55°	3454	3532	3658	3711	3680	3100
65°	2310	2362	2440	2432	2393	2285
75°	1153	1162	1201	1118	1048	1222
85°	204	200	196	157	144	267
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7956.5	7956.5	7956.5	7956.5	7956.5
2.5°	7995.7	7956.5	7904.3	7947.8	7939.1
5°	7926.1	7873.9	7869.5	7921.7	7882.6
7.5°	7839.0	7830.3	7778.1	7834.7	7812.9
10°	7725.9	7717.2	7699.8	7739.0	7708.5
12.5°	7591.1	7582.4	7591.1	7612.8	7591.1
15°	7447.5	7460.6	7438.8	7486.7	7443.2
17.5°	7256.1	7269.2	7312.7	7330.1	7325.7
20°	7099.5	7108.2	7160.4	7230.0	7156.1
22.5°	6895.1	6916.8	6942.9	7069.1	7051.7
25°	6686.2	6716.7	6816.8	6912.5	6838.5
27.5°	6468.7	6499.2	6621.0	6690.6	6681.9
30°	6233.8	6264.3	6416.5	6512.2	6468.7
32.5°	5990.2	6042.4	6207.7	6290.4	6207.7
35°	5751.0	5777.1	5938.0	6003.3	5964.1
37.5°	5433.4	5533.4	5694.4	5737.9	5668.3
40°	5194.1	5198.5	5429.0	5429.0	5424.7
42.5°	4885.3	4954.9	5107.1	5189.8	5146.3
45°	4619.9	4641.7	4837.4	4898.3	4885.3
47.5°	4328.4	4415.4	4559.0	4628.6	4593.8
50°	4041.3	4102.2	4250.1	4341.5	4306.7
52.5°	3776.0	3823.8	3976.1	4028.3	3993.5
55°	3454.1	3532.4	3658.5	3710.7	3680.3
57.5°	3175.6	3232.2	3388.8	3406.2	3388.8
60°	2884.2	2949.4	3075.6	3088.6	3053.8
62.5°	2605.8	2649.3	2762.4	2766.7	2727.6
65°	2310.0	2362.2	2440.5	2431.8	2392.6
67.5°	2018.5	2053.3	2127.2	2096.8	2053.3
70°	1722.7	1753.1	1814.0	1770.5	1731.4
72.5°	1435.6	1457.3	1509.5	1444.3	1396.4
75°	1152.8	1161.5	1200.7	1118.0	1048.4
77.5°	874.4	883.1	904.8	822.2	743.9
80°	622.1	622.1	630.8	543.8	491.6
82.5°	391.5	391.5	387.2	321.9	291.5
85°	204.5	200.1	195.8	156.6	143.6
87.5°	74.0	74.0	60.9	56.6	60.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)