

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: P487311

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5STD-30-120-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: P487311
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-LD4-5STD-30-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

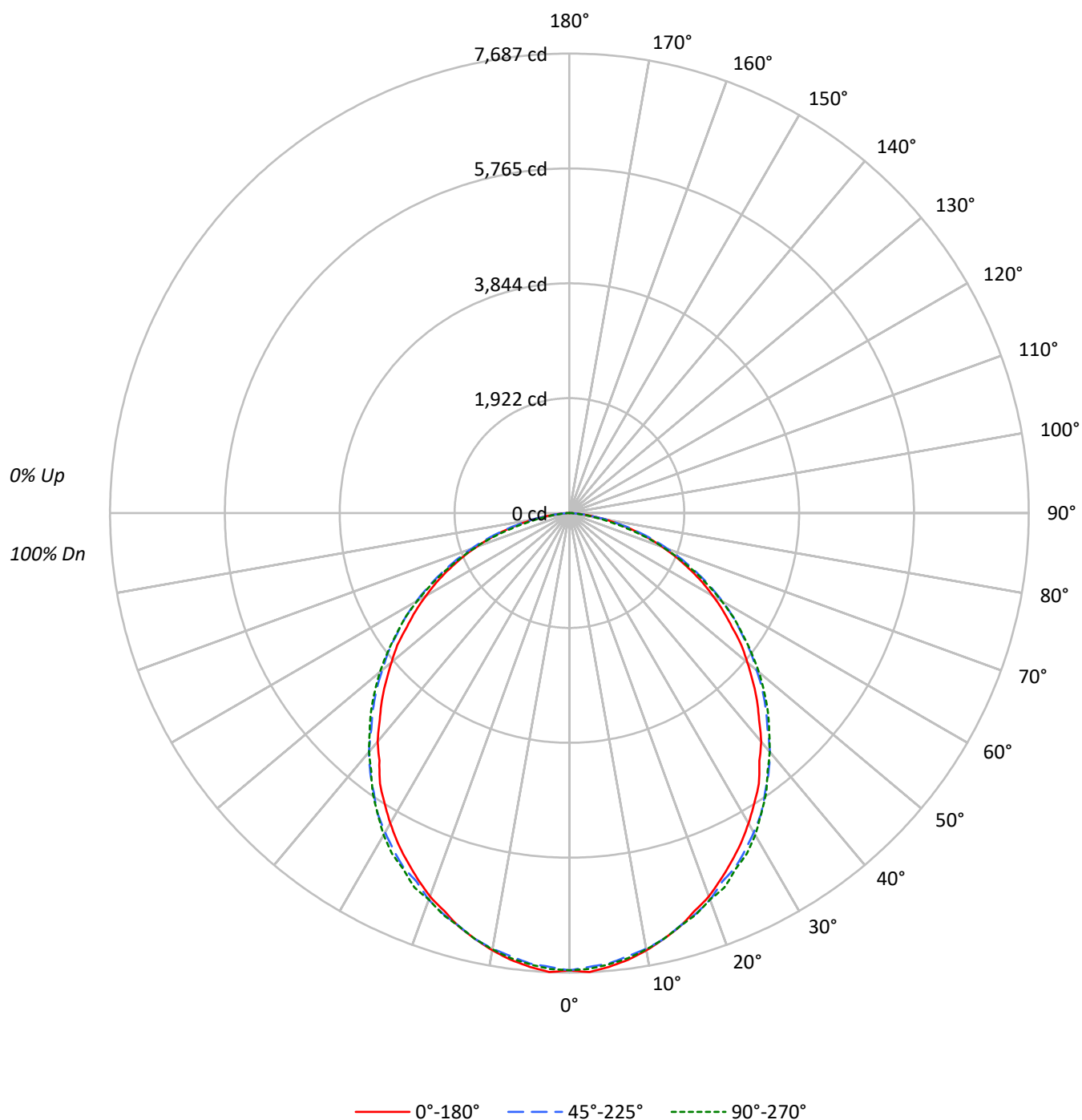
Lumens per Lamp: N/A
Luminaire Lumens: 19646.8 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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°	10292	10292	10292
5°	10291	10218	10235
10°	10148	10113	10125
15°	9973	9961	9967
20°	9772	9856	9850
25°	9543	9729	9760
30°	9311	9584	9662
35°	9081	9376	9418
40°	8770	9167	9160
45°	8451	8849	8936
50°	8132	8552	8666
55°	7789	8250	8299
60°	7461	7956	7900
65°	7070	7469	7323
70°	6515	6860	6548
75°	5761	6000	5240
80°	4634	4699	3662
85°	3035	2905	2130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.0	3.7
10°-20°	2021.6	10.3
20°-30°	3009.8	15.3
30°-40°	3542.7	18.0
40°-50°	3552.0	18.1
50°-60°	3114.8	15.9
60°-70°	2277.6	11.6
70°-80°	1173.8	6.0
80°-90°	235.5	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°	5750.3	29.3
0°-40°	9293.0	47.3
0°-60°	15959.9	81.2
0°-90°	19646.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19646.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7649	7649	7649	7649	7649	
5°	7620	7570	7565	7616	7578	721
15°	7160	7172	7151	7197	7156	2015
25°	6428	6457	6553	6645	6574	2961
35°	5529	5554	5708	5771	5734	3443
45°	4441	4462	4650	4709	4696	3423
55°	3320	3396	3517	3567	3538	2981
65°	2221	2271	2346	2338	2300	2197
75°	1108	1117	1154	1075	1008	1174
85°	197	192	188	151	138	256
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7648.9	7648.9	7648.9	7648.9	7648.9
2.5°	7686.6	7648.9	7598.8	7640.6	7632.2
5°	7619.7	7569.5	7565.3	7615.5	7577.8
7.5°	7536.0	7527.7	7477.5	7531.8	7510.9
10°	7427.3	7418.9	7402.2	7439.8	7410.6
12.5°	7297.6	7289.3	7297.6	7318.6	7297.6
15°	7159.6	7172.2	7151.3	7197.3	7155.5
17.5°	6975.6	6988.2	7030.0	7046.7	7042.5
20°	6825.1	6833.4	6883.6	6950.5	6879.4
22.5°	6628.5	6649.4	6674.5	6795.8	6779.1
25°	6427.8	6457.1	6553.2	6645.3	6574.2
27.5°	6218.7	6248.0	6365.1	6432.0	6423.6
30°	5992.9	6022.1	6168.5	6260.5	6218.7
32.5°	5758.7	5808.8	5967.8	6047.2	5967.8
35°	5528.6	5553.7	5708.5	5771.2	5733.6
37.5°	5223.4	5319.5	5474.3	5516.1	5449.2
40°	4993.3	4997.5	5219.2	5219.2	5215.0
42.5°	4696.4	4763.3	4909.7	4989.2	4947.3
45°	4441.3	4462.2	4650.4	4709.0	4696.4
47.5°	4161.1	4244.8	4382.8	4449.7	4416.2
50°	3885.1	3943.7	4085.8	4173.7	4140.2
52.5°	3630.0	3676.0	3822.4	3872.6	3839.1
55°	3320.5	3395.8	3517.1	3567.3	3538.0
57.5°	3052.9	3107.3	3257.8	3274.5	3257.8
60°	2772.7	2835.4	2956.7	2969.2	2935.8
62.5°	2505.0	2546.9	2655.6	2659.8	2622.1
65°	2220.7	2270.8	2346.1	2337.8	2300.1
67.5°	1940.5	1973.9	2045.0	2015.7	1973.9
70°	1656.1	1685.4	1743.9	1702.1	1664.4
72.5°	1380.1	1401.0	1451.2	1388.4	1342.4
75°	1108.2	1116.6	1154.2	1074.8	1007.9
77.5°	840.6	849.0	869.9	790.4	715.1
80°	598.0	598.0	606.4	522.8	472.6
82.5°	376.4	376.4	372.2	309.5	280.2
85°	196.6	192.4	188.2	150.6	138.0
87.5°	71.1	71.1	58.5	54.4	58.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)