

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: P487293

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5HI-50-120-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: P487293
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-LD4-5HI-50-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

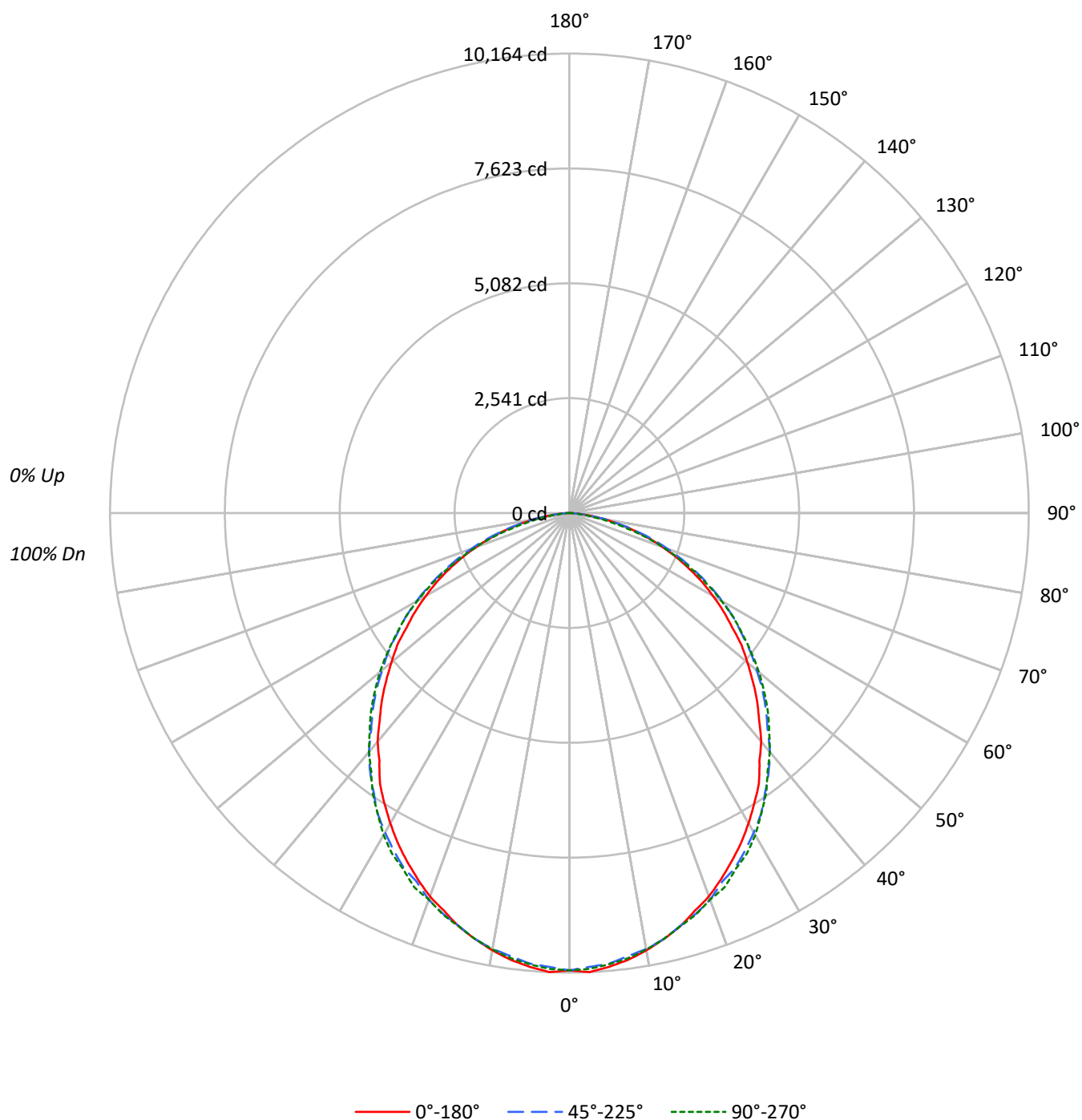
Lumens per Lamp: N/A
Luminaire Lumens: 25979.4 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 220
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°	13609	13609	13609
5°	13609	13511	13534
10°	13418	13373	13388
15°	13188	13172	13180
20°	12922	13033	13025
25°	12618	12865	12906
30°	12312	12673	12776
35°	12008	12399	12453
40°	11597	12122	12112
45°	11175	11701	11817
50°	10754	11309	11460
55°	10300	10910	10975
60°	9866	10521	10447
65°	9349	9877	9683
70°	8615	9072	8658
75°	7618	7935	6928
80°	6127	6213	4842
85°	4012	3841	2817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	950.7	3.7
10°-20°	2673.2	10.3
20°-30°	3979.9	15.3
30°-40°	4684.6	18.0
40°-50°	4696.9	18.1
50°-60°	4118.8	15.9
60°-70°	3011.8	11.6
70°-80°	1552.1	6.0
80°-90°	311.4	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°	7603.8	29.3
0°-40°	12288.4	47.3
0°-60°	21104.1	81.2
0°-90°	25979.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25979.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10114	10114	10114	10114	10114	
5°	10076	10009	10004	10070	10020	954
15°	9467	9484	9456	9517	9462	2664
25°	8500	8538	8666	8787	8693	3915
35°	7311	7344	7548	7631	7582	4553
45°	5873	5900	6149	6227	6210	4526
55°	4391	4490	4651	4717	4678	3941
65°	2936	3003	3102	3091	3042	2905
75°	1465	1476	1526	1421	1333	1553
85°	260	254	249	199	182	339
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10114.4	10114.4	10114.4	10114.4	10114.4
2.5°	10164.1	10114.4	10048.0	10103.3	10092.2
5°	10075.7	10009.3	10003.8	10070.1	10020.4
7.5°	9965.1	9954.0	9887.6	9959.5	9931.9
10°	9821.3	9810.2	9788.1	9837.9	9799.2
12.5°	9649.8	9638.8	9649.8	9677.5	9649.8
15°	9467.4	9483.9	9456.3	9517.1	9461.8
17.5°	9224.0	9240.6	9295.9	9318.0	9312.5
20°	9025.0	9036.0	9102.4	9190.9	9096.8
22.5°	8765.0	8792.7	8825.9	8986.2	8964.1
25°	8499.6	8538.3	8665.5	8787.2	8693.2
27.5°	8223.1	8261.8	8416.7	8505.1	8494.1
30°	7924.5	7963.2	8156.7	8278.4	8223.1
32.5°	7614.8	7681.2	7891.3	7996.4	7891.3
35°	7310.7	7343.8	7548.4	7631.4	7581.6
37.5°	6907.0	7034.2	7238.8	7294.1	7205.6
40°	6602.8	6608.3	6901.4	6901.4	6895.9
42.5°	6210.2	6298.7	6492.2	6597.3	6542.0
45°	5872.9	5900.5	6149.4	6226.8	6210.2
47.5°	5502.3	5612.9	5795.4	5883.9	5839.7
50°	5137.4	5214.8	5402.8	5518.9	5474.7
52.5°	4800.0	4860.9	5054.4	5120.8	5076.5
55°	4390.8	4490.4	4650.7	4717.1	4678.4
57.5°	4036.9	4108.8	4307.9	4330.0	4307.9
60°	3666.4	3749.3	3909.7	3926.3	3882.1
62.5°	3312.5	3367.8	3511.5	3517.1	3467.3
65°	2936.4	3002.8	3102.3	3091.3	3041.5
67.5°	2565.9	2610.2	2704.2	2665.5	2610.2
70°	2189.9	2228.6	2306.0	2250.7	2200.9
72.5°	1824.9	1852.5	1918.9	1836.0	1775.1
75°	1465.4	1476.5	1526.3	1421.2	1332.7
77.5°	1111.5	1122.6	1150.2	1045.2	945.6
80°	790.8	790.8	801.8	691.2	624.9
82.5°	497.7	497.7	492.2	409.2	370.5
85°	259.9	254.4	248.8	199.1	182.5
87.5°	94.0	94.0	77.4	71.9	77.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)