

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: P489549

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5HI-50-120-EDD**

Issue Date: 3/11/2021

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: P489549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLM-24-4-INS-A12125-LD4-5HI-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

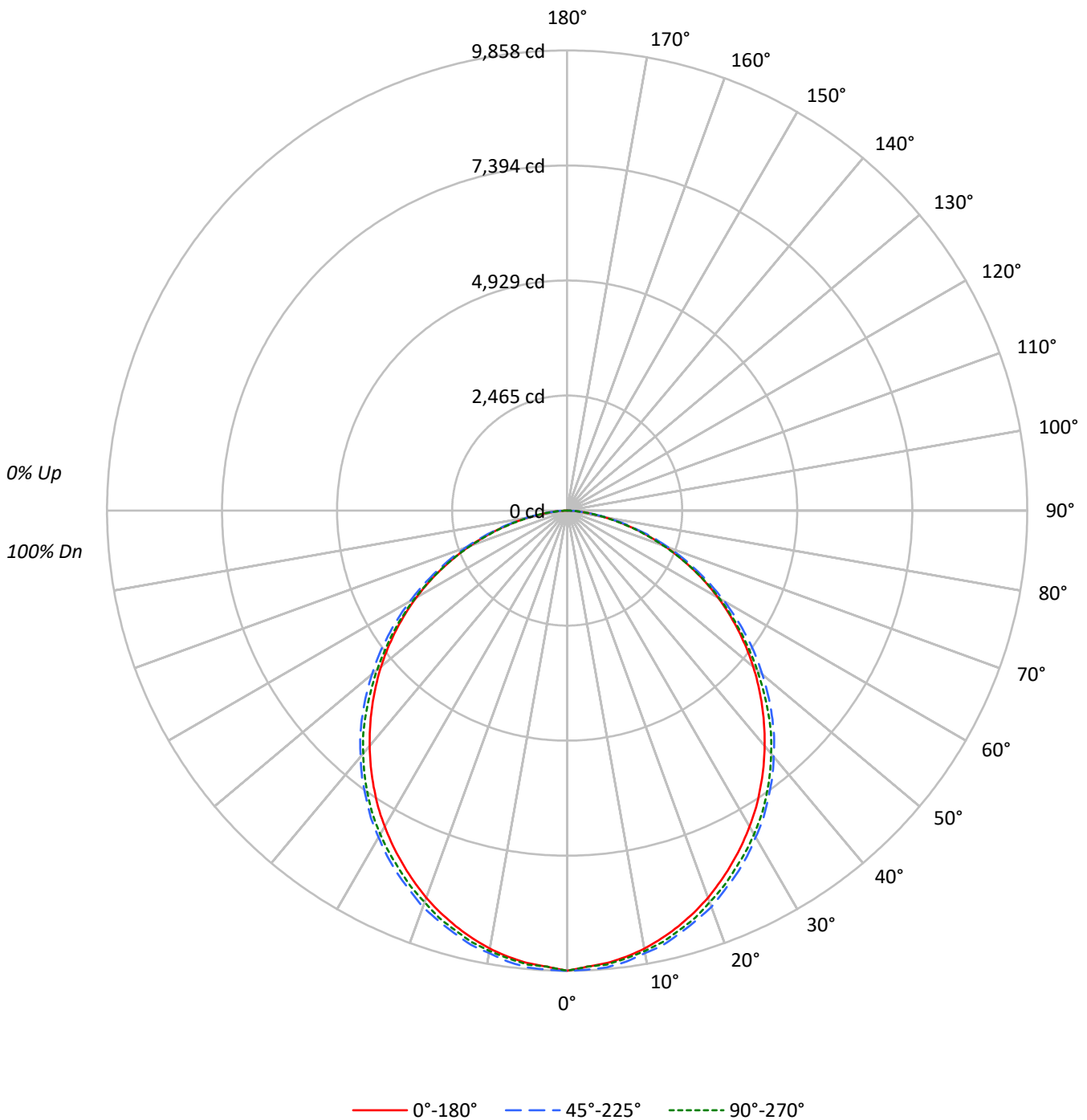
Lumens per Lamp: N/A
Luminaire Lumens: 25917.7 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 216
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13264	13264	13264
5°	13141	13265	13183
10°	13021	13153	13090
15°	12841	13048	12957
20°	12639	12939	12783
25°	12392	12752	12606
30°	12142	12554	12439
35°	11868	12339	12224
40°	11560	12092	11939
45°	11236	11803	11580
50°	10898	11425	11126
55°	10503	10994	10657
60°	10055	10472	10149
65°	9477	9840	9483
70°	8720	9071	8622
75°	7678	8025	7561
80°	6240	6510	6168
85°	4344	4630	4519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	928.4	3.6
10°-20°	2631.0	10.2
20°-30°	3924.0	15.1
30°-40°	4650.0	17.9
40°-50°	4705.1	18.2
50°-60°	4109.2	15.9
60°-70°	3002.8	11.6
70°-80°	1597.8	6.2
80°-90°	369.3	1.4
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°	7483.5	28.9
0°-40°	12133.5	46.8
0°-60°	20947.8	80.8
0°-90°	25917.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25917.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9858	9858	9858	9858	9858	
5°	9730	9748	9821	9844	9761	923
15°	9218	9280	9367	9424	9302	2599
25°	8347	8450	8590	8622	8491	3846
35°	7226	7339	7512	7565	7442	4519
45°	5905	6010	6203	6208	6086	4555
55°	4477	4568	4687	4619	4543	4002
65°	2977	3037	3091	3029	2979	2945
75°	1477	1511	1544	1487	1454	1570
85°	281	287	300	303	293	356
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9858.2	9858.2	9858.2	9858.2	9858.2
2.5°	9781.1	9813.0	9845.8	9860.2	9780.1
5°	9729.8	9748.3	9821.2	9843.8	9760.6
7.5°	9645.6	9673.3	9744.2	9754.4	9674.3
10°	9530.5	9579.8	9627.1	9678.4	9580.9
12.5°	9383.6	9450.4	9530.5	9539.8	9465.8
15°	9218.3	9279.9	9367.2	9423.7	9301.5
17.5°	9033.4	9093.0	9206.0	9216.2	9142.3
20°	8827.0	8900.9	9036.5	9060.1	8927.6
22.5°	8592.8	8692.4	8805.4	8828.0	8730.4
25°	8347.3	8450.0	8589.7	8621.5	8491.1
27.5°	8090.5	8189.1	8346.3	8368.9	8259.0
30°	7815.3	7907.7	8080.2	8118.3	8006.3
32.5°	7535.9	7628.3	7819.4	7851.2	7742.3
35°	7225.7	7338.7	7512.3	7564.6	7442.4
37.5°	6909.3	7019.2	7216.5	7263.7	7132.2
40°	6581.7	6690.6	6884.7	6923.7	6797.4
42.5°	6246.9	6355.7	6563.2	6569.4	6464.6
45°	5904.8	6009.6	6202.7	6207.8	6085.6
47.5°	5557.7	5663.5	5836.0	5816.5	5701.5
50°	5206.4	5307.1	5458.0	5419.0	5315.3
52.5°	4842.8	4940.4	5083.2	5019.5	4921.9
55°	4477.2	4567.5	4686.7	4618.9	4542.9
57.5°	4108.4	4199.8	4291.3	4222.4	4156.7
60°	3736.6	3816.7	3891.7	3821.9	3771.5
62.5°	3358.6	3427.5	3492.2	3425.4	3378.2
65°	2976.6	3037.2	3090.6	3028.9	2978.6
67.5°	2596.5	2647.9	2697.2	2633.5	2581.1
70°	2216.5	2260.7	2305.9	2240.1	2191.8
72.5°	1841.6	1880.6	1920.7	1857.0	1814.9
75°	1477.0	1510.9	1543.7	1487.3	1454.4
77.5°	1128.8	1157.5	1180.1	1144.2	1112.4
80°	805.3	826.8	840.2	825.8	796.0
82.5°	517.7	533.1	540.3	539.2	519.7
85°	281.4	286.6	299.9	303.0	292.7
87.5°	108.9	116.1	119.1	128.4	118.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)