

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: P489547

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5HI-40-120-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: P489547
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-40-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

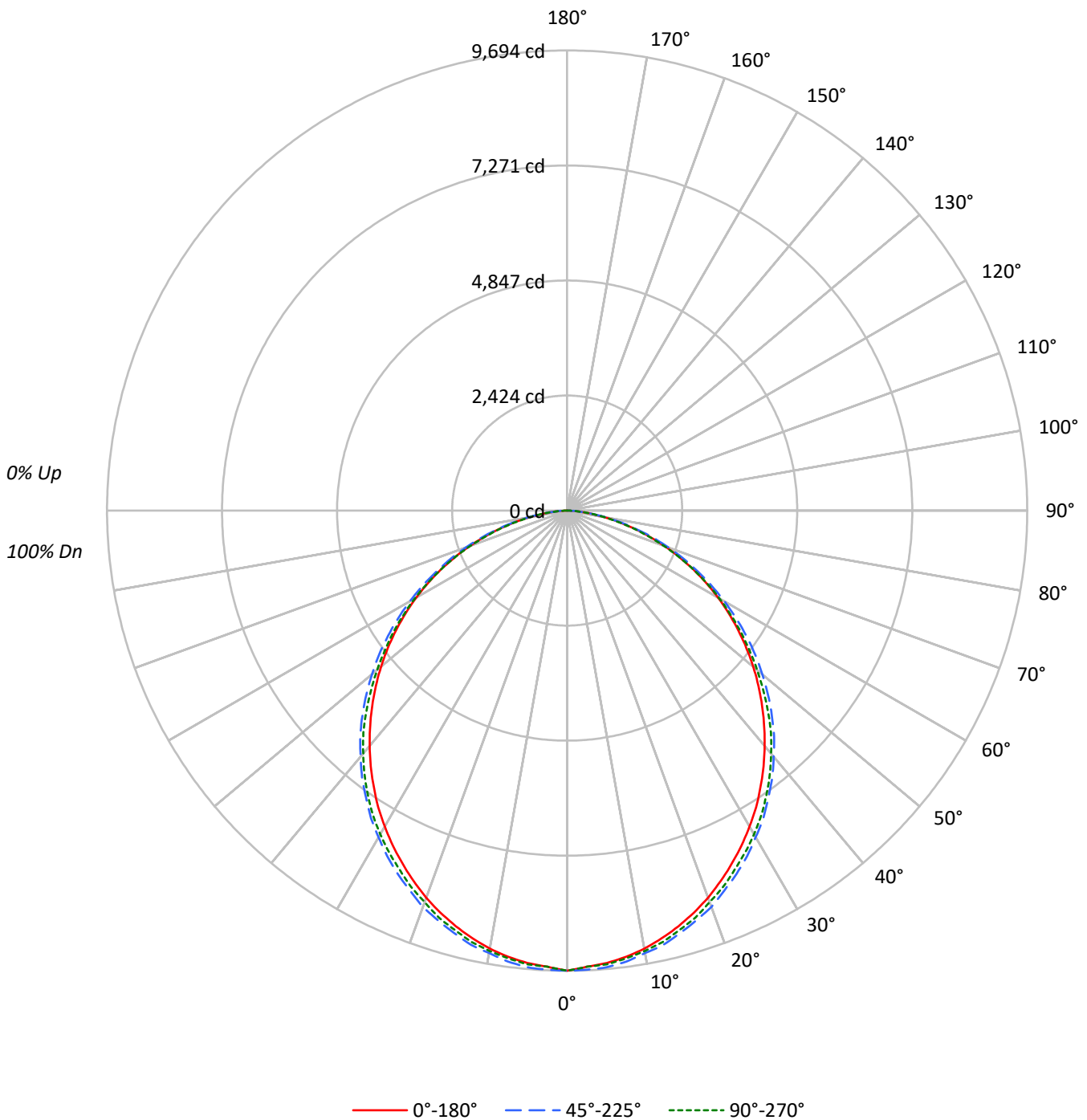
Lumens per Lamp: N/A
Luminaire Lumens: 25485.3 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	13043	13043	13043
5°	12922	13043	12963
10°	12804	12934	12871
15°	12626	12830	12740
20°	12428	12723	12570
25°	12185	12539	12395
30°	11940	12344	12231
35°	11670	12133	12020
40°	11367	11891	11740
45°	11048	11606	11387
50°	10716	11234	10940
55°	10327	10811	10479
60°	9887	10298	9980
65°	9318	9675	9325
70°	8574	8920	8479
75°	7550	7891	7434
80°	6135	6402	6065
85°	4272	4553	4443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	913.0	3.6
10°-20°	2587.1	10.2
20°-30°	3858.6	15.1
30°-40°	4572.4	17.9
40°-50°	4626.6	18.2
50°-60°	4040.7	15.9
60°-70°	2952.7	11.6
70°-80°	1571.1	6.2
80°-90°	363.1	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°	7358.6	28.9
0°-40°	11931.1	46.8
0°-60°	20598.3	80.8
0°-90°	25485.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25485.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9694	9694	9694	9694	9694	
5°	9568	9586	9657	9680	9598	907
15°	9064	9125	9211	9266	9146	2555
25°	8208	8309	8446	8478	8349	3782
35°	7105	7216	7387	7438	7318	4443
45°	5806	5909	6099	6104	5984	4479
55°	4402	4491	4608	4542	4467	3935
65°	2927	2986	3039	2978	2929	2896
75°	1452	1486	1518	1462	1430	1544
85°	277	282	295	298	288	350
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9693.7	9693.7	9693.7	9693.7	9693.7
2.5°	9618.0	9649.3	9681.6	9695.7	9616.9
5°	9567.5	9585.6	9657.3	9679.6	9597.8
7.5°	9484.6	9511.9	9581.6	9591.7	9512.9
10°	9371.5	9420.0	9466.5	9517.0	9421.0
12.5°	9227.1	9292.7	9371.5	9380.6	9307.9
15°	9064.5	9125.1	9210.9	9266.5	9146.3
17.5°	8882.7	8941.3	9052.4	9062.5	8989.8
20°	8679.7	8752.4	8885.7	8909.0	8778.7
22.5°	8449.4	8547.4	8658.5	8680.7	8584.8
25°	8208.0	8309.0	8446.4	8477.7	8349.4
27.5°	7955.5	8052.5	8207.0	8229.2	8121.2
30°	7684.9	7775.8	7945.4	7982.8	7872.7
32.5°	7410.2	7501.1	7688.9	7720.2	7613.2
35°	7105.1	7216.2	7386.9	7438.4	7318.2
37.5°	6794.1	6902.1	7096.1	7142.5	7013.2
40°	6471.9	6579.0	6769.8	6808.2	6684.0
42.5°	6142.6	6249.7	6453.7	6459.8	6356.8
45°	5806.3	5909.3	6099.2	6104.3	5984.1
47.5°	5465.0	5569.0	5738.7	5719.5	5606.3
50°	5119.5	5218.5	5367.0	5328.6	5226.6
52.5°	4762.0	4858.0	4998.3	4935.7	4839.8
55°	4402.5	4491.3	4608.5	4541.8	4467.1
57.5°	4039.9	4129.8	4219.7	4152.0	4087.4
60°	3674.3	3753.1	3826.8	3758.1	3708.6
62.5°	3302.6	3370.3	3433.9	3368.3	3321.8
65°	2926.9	2986.5	3039.0	2978.4	2928.9
67.5°	2553.2	2603.7	2652.2	2589.6	2538.1
70°	2179.5	2222.9	2267.4	2202.7	2155.3
72.5°	1810.9	1849.3	1888.6	1826.0	1784.6
75°	1452.3	1485.7	1518.0	1462.4	1430.1
77.5°	1110.0	1138.2	1160.5	1125.1	1093.8
80°	791.8	813.0	826.2	812.0	782.7
82.5°	509.0	524.2	531.2	530.2	511.0
85°	276.7	281.8	294.9	297.9	287.8
87.5°	107.1	114.1	117.2	126.2	116.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)