

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: P489472

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3HI-35-120-EDD-90**

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: P489472
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-LD4-3HI-35-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

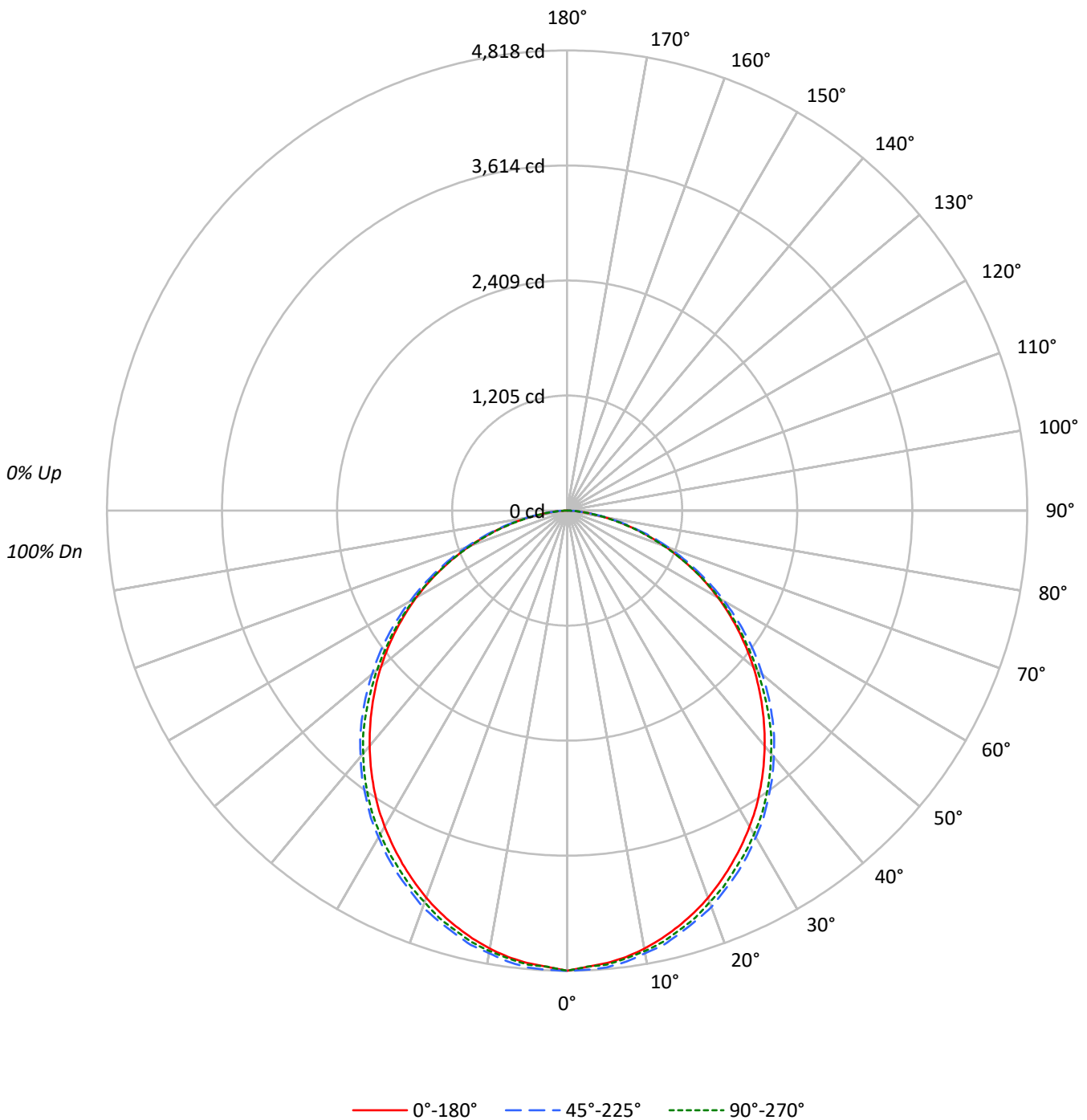
Lumens per Lamp: N/A
Luminaire Lumens: 12668.2 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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°	6483	6483	6483
5°	6423	6484	6444
10°	6365	6429	6398
15°	6276	6378	6333
20°	6178	6324	6248
25°	6057	6233	6161
30°	5935	6136	6080
35°	5801	6031	5975
40°	5650	5911	5836
45°	5492	5769	5660
50°	5327	5584	5438
55°	5134	5374	5209
60°	4915	5119	4961
65°	4632	4809	4635
70°	4262	4434	4214
75°	3753	3923	3696
80°	3050	3182	3015
85°	2124	2263	2209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.8	3.6
10°-20°	1286.0	10.2
20°-30°	1918.0	15.1
30°-40°	2272.9	17.9
40°-50°	2299.8	18.2
50°-60°	2008.5	15.9
60°-70°	1467.7	11.6
70°-80°	781.0	6.2
80°-90°	180.5	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°	3657.8	28.9
0°-40°	5930.7	46.8
0°-60°	10239.0	80.8
0°-90°	12668.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12668.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4818	4818	4818	4818	4818	
5°	4756	4765	4800	4812	4771	451
15°	4506	4536	4579	4606	4546	1270
25°	4080	4130	4198	4214	4150	1880
35°	3532	3587	3672	3698	3638	2209
45°	2886	2937	3032	3034	2975	2227
55°	2188	2232	2291	2258	2220	1956
65°	1455	1484	1511	1480	1456	1440
75°	722	738	755	727	711	768
85°	138	140	147	148	143	174
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4818.5	4818.5	4818.5	4818.5	4818.5
2.5°	4780.9	4796.4	4812.5	4819.5	4780.4
5°	4755.8	4764.8	4800.5	4811.5	4770.8
7.5°	4714.6	4728.2	4762.8	4767.8	4728.7
10°	4658.4	4682.5	4705.6	4730.7	4683.0
12.5°	4586.6	4619.2	4658.4	4662.9	4626.8
15°	4505.8	4535.9	4578.6	4606.2	4546.4
17.5°	4415.4	4444.5	4499.7	4504.8	4468.6
20°	4314.5	4350.6	4416.9	4428.5	4363.7
22.5°	4200.0	4248.7	4303.9	4315.0	4267.3
25°	4080.0	4130.2	4198.5	4214.1	4150.3
27.5°	3954.5	4002.7	4079.5	4090.6	4036.9
30°	3820.0	3865.2	3949.5	3968.1	3913.4
32.5°	3683.4	3728.6	3822.0	3837.6	3784.3
35°	3531.8	3587.0	3671.9	3697.5	3637.7
37.5°	3377.2	3430.9	3527.3	3550.4	3486.1
40°	3217.0	3270.3	3365.1	3384.2	3322.5
42.5°	3053.4	3106.6	3208.0	3211.0	3159.8
45°	2886.2	2937.4	3031.8	3034.3	2974.6
47.5°	2716.5	2768.2	2852.6	2843.0	2786.8
50°	2544.8	2594.0	2667.8	2648.7	2598.0
52.5°	2367.1	2414.8	2484.6	2453.4	2405.8
55°	2188.4	2232.5	2290.8	2257.7	2220.5
57.5°	2008.1	2052.8	2097.5	2063.9	2031.7
60°	1826.4	1865.6	1902.2	1868.1	1843.5
62.5°	1641.7	1675.3	1706.9	1674.3	1651.2
65°	1454.9	1484.5	1510.6	1480.5	1455.9
67.5°	1269.1	1294.2	1318.3	1287.2	1261.6
70°	1083.4	1105.0	1127.1	1094.9	1071.3
72.5°	900.1	919.2	938.8	907.7	887.1
75°	721.9	738.5	754.6	726.9	710.9
77.5°	551.7	565.8	576.8	559.3	543.7
80°	393.6	404.1	410.7	403.6	389.1
82.5°	253.0	260.6	264.1	263.6	254.0
85°	137.6	140.1	146.6	148.1	143.1
87.5°	53.2	56.7	58.2	62.8	57.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)