

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: P489570

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5STD-40-120-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: P489570
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-LD4-5STD-40-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

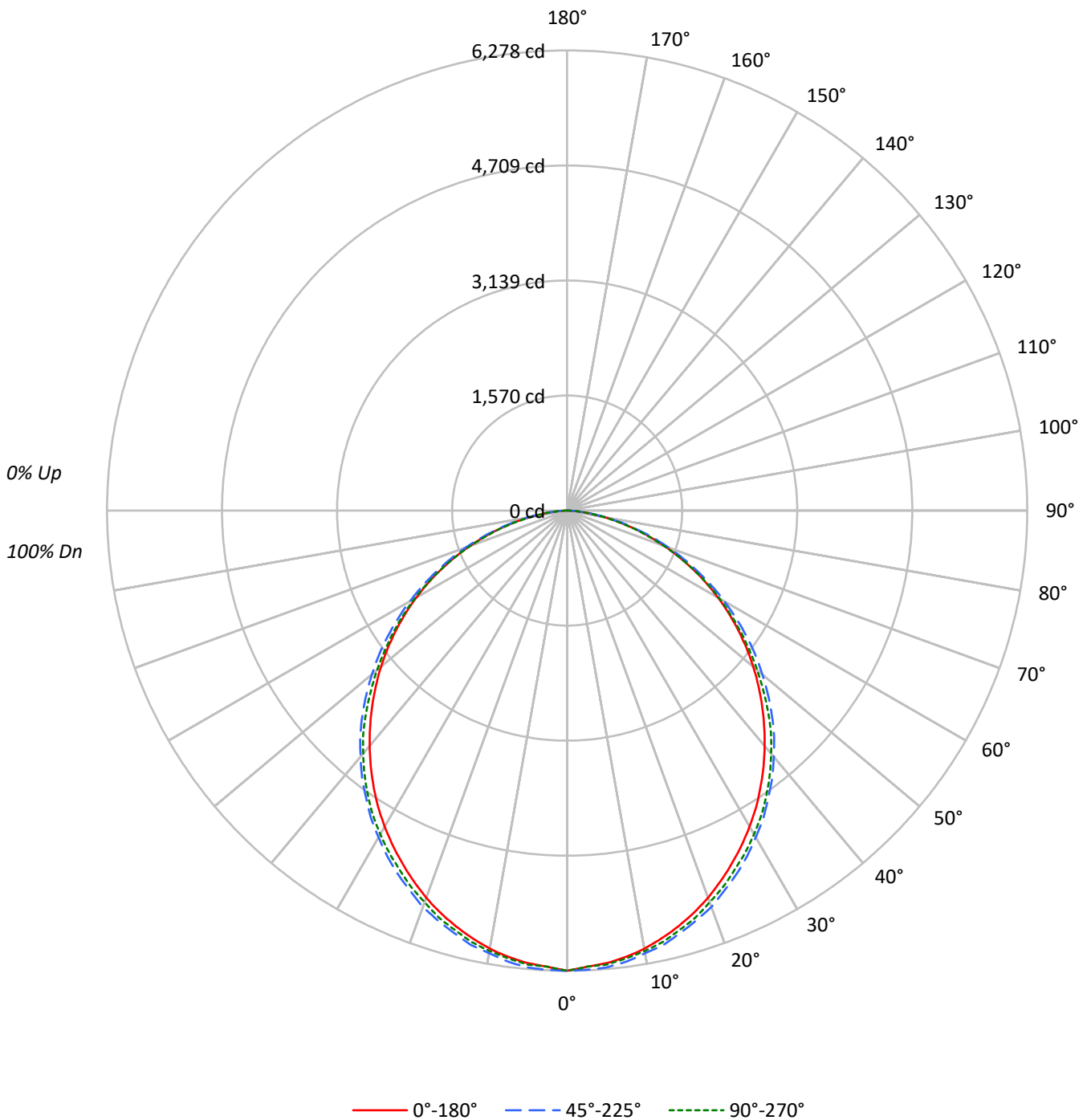
Lumens per Lamp: N/A
Luminaire Lumens: 16506.2 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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°	8448	8448	8448
5°	8369	8448	8396
10°	8293	8377	8337
15°	8178	8310	8252
20°	8049	8240	8141
25°	7892	8121	8028
30°	7733	7995	7922
35°	7559	7858	7785
40°	7362	7701	7604
45°	7156	7517	7375
50°	6941	7276	7086
55°	6689	7002	6787
60°	6404	6670	6464
65°	6035	6266	6039
70°	5553	5777	5491
75°	4890	5111	4815
80°	3973	4146	3928
85°	2766	2949	2878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.3	3.6
10°-20°	1675.6	10.2
20°-30°	2499.1	15.1
30°-40°	2961.4	17.9
40°-50°	2996.5	18.2
50°-60°	2617.0	15.9
60°-70°	1912.4	11.6
70°-80°	1017.6	6.2
80°-90°	235.2	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°	4766.0	28.9
0°-40°	7727.5	46.8
0°-60°	13341.0	80.8
0°-90°	16506.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16506.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6278	6278	6278	6278	6278	
5°	6197	6208	6255	6269	6216	588
15°	5871	5910	5966	6002	5924	1655
25°	5316	5382	5470	5491	5408	2449
35°	4602	4674	4784	4818	4740	2878
45°	3761	3827	3950	3954	3876	2901
55°	2851	2909	2985	2942	2893	2549
65°	1896	1934	1968	1929	1897	1876
75°	941	962	983	947	926	1000
85°	179	182	191	193	186	227
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6278.4	6278.4	6278.4	6278.4	6278.4
2.5°	6229.3	6249.6	6270.5	6279.7	6228.7
5°	6196.6	6208.4	6254.8	6269.2	6216.2
7.5°	6143.0	6160.6	6205.8	6212.3	6161.3
10°	6069.7	6101.1	6131.2	6163.9	6101.8
12.5°	5976.2	6018.7	6069.7	6075.6	6028.5
15°	5870.8	5910.1	5965.7	6001.7	5923.8
17.5°	5753.1	5791.0	5863.0	5869.5	5822.4
20°	5621.6	5668.7	5755.1	5770.1	5685.7
22.5°	5472.5	5535.9	5607.9	5622.3	5560.1
25°	5316.1	5381.6	5470.5	5490.8	5407.7
27.5°	5152.6	5215.4	5315.5	5329.9	5259.9
30°	4977.3	5036.2	5146.1	5170.3	5099.0
32.5°	4799.4	4858.2	4979.9	5000.2	4930.9
35°	4601.8	4673.8	4784.3	4817.7	4739.8
37.5°	4400.4	4470.3	4595.9	4626.0	4542.3
40°	4191.7	4261.0	4384.7	4409.5	4329.1
42.5°	3978.4	4047.8	4179.9	4183.8	4117.1
45°	3760.6	3827.3	3950.3	3953.6	3875.7
47.5°	3539.5	3606.9	3716.8	3704.4	3631.1
50°	3315.8	3379.9	3476.1	3451.2	3385.1
52.5°	3084.2	3146.4	3237.3	3196.7	3134.6
55°	2851.4	2908.9	2984.8	2941.6	2893.2
57.5°	2616.5	2674.8	2733.0	2689.1	2647.3
60°	2379.7	2430.8	2478.5	2434.0	2402.0
62.5°	2139.0	2182.8	2224.1	2181.5	2151.4
65°	1895.7	1934.3	1968.3	1929.0	1897.0
67.5°	1653.6	1686.4	1717.8	1677.2	1643.8
70°	1411.6	1439.7	1468.5	1426.7	1395.9
72.5°	1172.9	1197.7	1223.2	1182.7	1155.9
75°	940.6	962.2	983.2	947.2	926.3
77.5°	718.9	737.2	751.6	728.7	708.4
80°	512.8	526.6	535.1	525.9	507.0
82.5°	329.7	339.5	344.1	343.4	331.0
85°	179.2	182.5	191.0	193.0	186.4
87.5°	69.3	73.9	75.9	81.8	75.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)