

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: P489554

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5LO-30-120-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: P489554
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-LD4-5LO-30-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

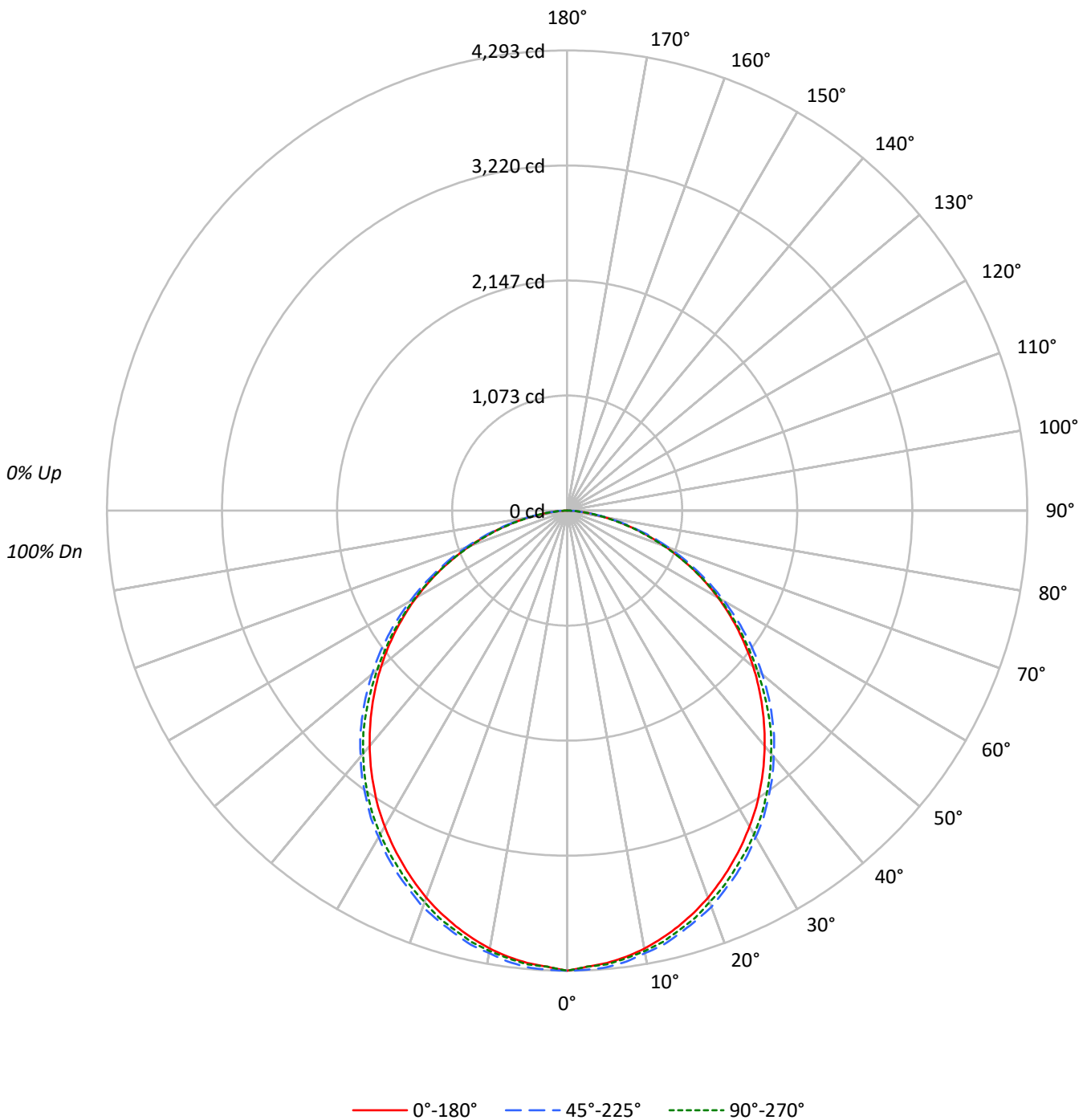
Lumens per Lamp: N/A
Luminaire Lumens: 11285.8 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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°	5776	5776	5776
5°	5722	5776	5740
10°	5670	5727	5700
15°	5591	5682	5642
20°	5504	5634	5566
25°	5396	5553	5489
30°	5287	5466	5416
35°	5168	5373	5323
40°	5034	5266	5199
45°	4893	5139	5042
50°	4746	4975	4845
55°	4573	4787	4640
60°	4378	4560	4419
65°	4126	4285	4129
70°	3797	3950	3755
75°	3343	3494	3292
80°	2717	2835	2686
85°	1891	2016	1968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.3	3.6
10°-20°	1145.7	10.2
20°-30°	1708.7	15.1
30°-40°	2024.8	17.9
40°-50°	2048.8	18.2
50°-60°	1789.3	15.9
60°-70°	1307.6	11.6
70°-80°	695.7	6.2
80°-90°	160.8	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°	3258.7	28.9
0°-40°	5283.5	46.8
0°-60°	9121.7	80.8
0°-90°	11285.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11285.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4293	4293	4293	4293	4293	
5°	4237	4245	4277	4286	4250	402
15°	4014	4041	4079	4104	4050	1132
25°	3635	3680	3740	3754	3697	1675
35°	3146	3196	3271	3294	3241	1968
45°	2571	2617	2701	2703	2650	1984
55°	1950	1989	2041	2011	1978	1743
65°	1296	1322	1346	1319	1297	1283
75°	643	658	672	648	633	684
85°	122	125	131	132	128	155
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4292.7	4292.7	4292.7	4292.7	4292.7
2.5°	4259.2	4273.0	4287.3	4293.6	4258.7
5°	4236.8	4244.9	4276.6	4286.5	4250.2
7.5°	4200.1	4212.2	4243.1	4247.5	4212.7
10°	4150.0	4171.5	4192.1	4214.4	4172.0
12.5°	4086.1	4115.2	4150.0	4154.1	4121.9
15°	4014.1	4040.9	4078.9	4103.5	4050.3
17.5°	3933.6	3959.5	4008.7	4013.2	3981.0
20°	3843.7	3875.9	3934.9	3945.2	3887.5
22.5°	3741.7	3785.1	3834.3	3844.1	3801.6
25°	3634.8	3679.5	3740.4	3754.2	3697.4
27.5°	3523.0	3565.9	3634.4	3644.2	3596.3
30°	3403.1	3443.4	3518.5	3535.1	3486.3
32.5°	3281.5	3321.7	3404.9	3418.8	3371.4
35°	3146.4	3195.6	3271.2	3294.0	3240.8
37.5°	3008.7	3056.5	3142.4	3163.0	3105.7
40°	2866.0	2913.4	2997.9	3014.9	2959.9
42.5°	2720.2	2767.6	2857.9	2860.6	2815.0
45°	2571.2	2616.9	2700.9	2703.2	2650.0
47.5°	2420.1	2466.1	2541.3	2532.8	2482.7
50°	2267.1	2310.9	2376.7	2359.7	2314.5
52.5°	2108.8	2151.3	2213.4	2185.7	2143.2
55°	1949.6	1988.9	2040.8	2011.3	1978.2
57.5°	1789.0	1828.8	1868.6	1838.6	1810.0
60°	1627.1	1662.0	1694.6	1664.2	1642.3
62.5°	1462.5	1492.5	1520.7	1491.6	1471.0
65°	1296.1	1322.5	1345.8	1318.9	1297.0
67.5°	1130.7	1153.0	1174.5	1146.8	1123.9
70°	965.2	984.4	1004.1	975.5	954.4
72.5°	801.9	818.9	836.4	808.6	790.3
75°	643.1	657.9	672.2	647.6	633.3
77.5°	491.5	504.1	513.9	498.2	484.4
80°	350.6	360.0	365.9	359.6	346.6
82.5°	225.4	232.1	235.3	234.8	226.3
85°	122.5	124.8	130.6	131.9	127.5
87.5°	47.4	50.5	51.9	55.9	51.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)