

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: P489557

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5LO-35-120-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: P489557
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-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

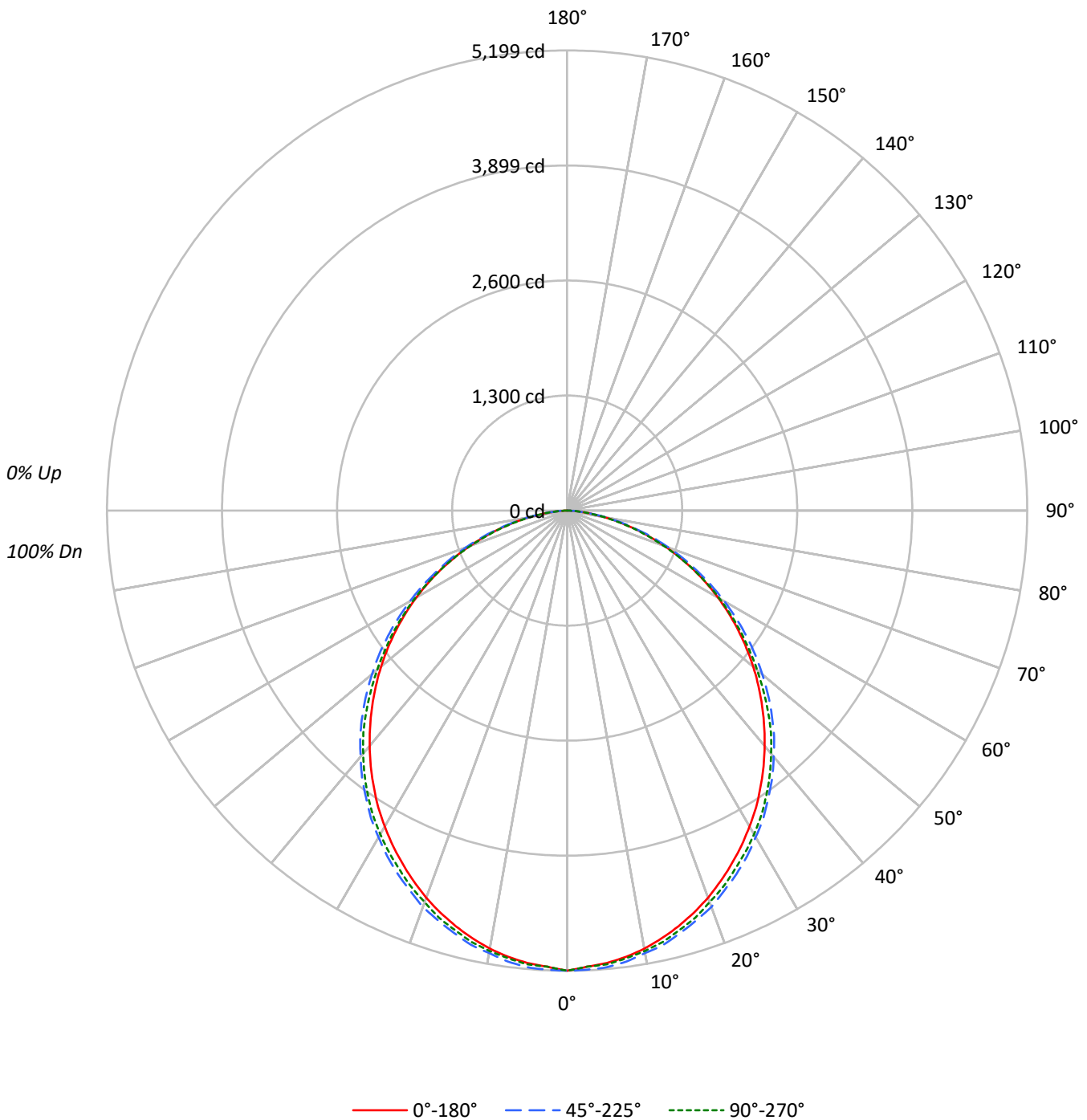
Lumens per Lamp: N/A
Luminaire Lumens: 13667.9 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	6995	6995	6995
5°	6930	6995	6952
10°	6867	6936	6903
15°	6772	6881	6833
20°	6665	6823	6741
25°	6535	6725	6648
30°	6403	6620	6560
35°	6259	6507	6447
40°	6096	6377	6296
45°	5925	6224	6107
50°	5747	6025	5867
55°	5539	5798	5620
60°	5303	5523	5352
65°	4997	5189	5001
70°	4598	4784	4547
75°	4049	4232	3987
80°	3291	3433	3253
85°	2291	2442	2384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.6	3.6
10°-20°	1387.5	10.2
20°-30°	2069.4	15.1
30°-40°	2452.2	17.9
40°-50°	2481.3	18.2
50°-60°	2167.0	15.9
60°-70°	1583.6	11.6
70°-80°	842.6	6.2
80°-90°	194.7	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°	3946.5	28.9
0°-40°	6398.7	46.8
0°-60°	11047.0	80.8
0°-90°	13667.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13667.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5199	5199	5199	5199	5199	
5°	5131	5141	5179	5191	5147	487
15°	4861	4894	4940	4970	4905	1370
25°	4402	4456	4530	4547	4478	2028
35°	3810	3870	3962	3989	3925	2383
45°	3114	3169	3271	3274	3209	2402
55°	2361	2409	2472	2436	2396	2111
65°	1570	1602	1630	1597	1571	1553
75°	779	797	814	784	767	828
85°	148	151	158	160	154	188
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5198.8	5198.8	5198.8	5198.8	5198.8
2.5°	5158.2	5175.0	5192.3	5199.9	5157.6
5°	5131.1	5140.8	5179.3	5191.2	5147.3
7.5°	5086.7	5101.3	5138.7	5144.1	5101.8
10°	5026.0	5052.0	5076.9	5104.0	5052.5
12.5°	4948.5	4983.7	5026.0	5030.9	4991.9
15°	4861.3	4893.8	4939.9	4969.7	4905.2
17.5°	4763.8	4795.3	4854.8	4860.2	4821.3
20°	4655.0	4694.0	4765.5	4777.9	4708.0
22.5°	4531.5	4584.0	4643.6	4655.5	4604.0
25°	4402.0	4456.2	4529.8	4546.6	4477.8
27.5°	4266.6	4318.6	4401.5	4413.4	4355.4
30°	4121.4	4170.2	4261.2	4281.2	4222.2
32.5°	3974.1	4022.9	4123.6	4140.4	4083.0
35°	3810.5	3870.1	3961.6	3989.3	3924.8
37.5°	3643.7	3701.7	3805.7	3830.6	3761.2
40°	3470.9	3528.3	3630.7	3651.3	3584.7
42.5°	3294.3	3351.7	3461.2	3464.4	3409.2
45°	3114.0	3169.2	3271.0	3273.7	3209.3
47.5°	2930.9	2986.7	3077.7	3067.4	3006.7
50°	2745.6	2798.7	2878.3	2857.8	2803.1
52.5°	2553.9	2605.3	2680.6	2647.1	2595.6
55°	2361.1	2408.7	2471.6	2435.8	2395.7
57.5°	2166.6	2214.8	2263.0	2226.7	2192.1
60°	1970.5	2012.8	2052.3	2015.5	1988.9
62.5°	1771.2	1807.5	1841.6	1806.4	1781.5
65°	1569.7	1601.7	1629.8	1597.3	1570.8
67.5°	1369.3	1396.4	1422.4	1388.8	1361.2
70°	1168.9	1192.2	1216.0	1181.3	1155.9
72.5°	971.2	991.8	1012.9	979.3	957.1
75°	778.9	796.8	814.1	784.3	767.0
77.5°	595.3	610.4	622.4	603.4	586.6
80°	424.7	436.0	443.1	435.5	419.8
82.5°	273.0	281.1	284.9	284.4	274.1
85°	148.4	151.1	158.2	159.8	154.4
87.5°	57.4	61.2	62.8	67.7	62.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)