

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: P489475

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3HI-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: P489475
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-40-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

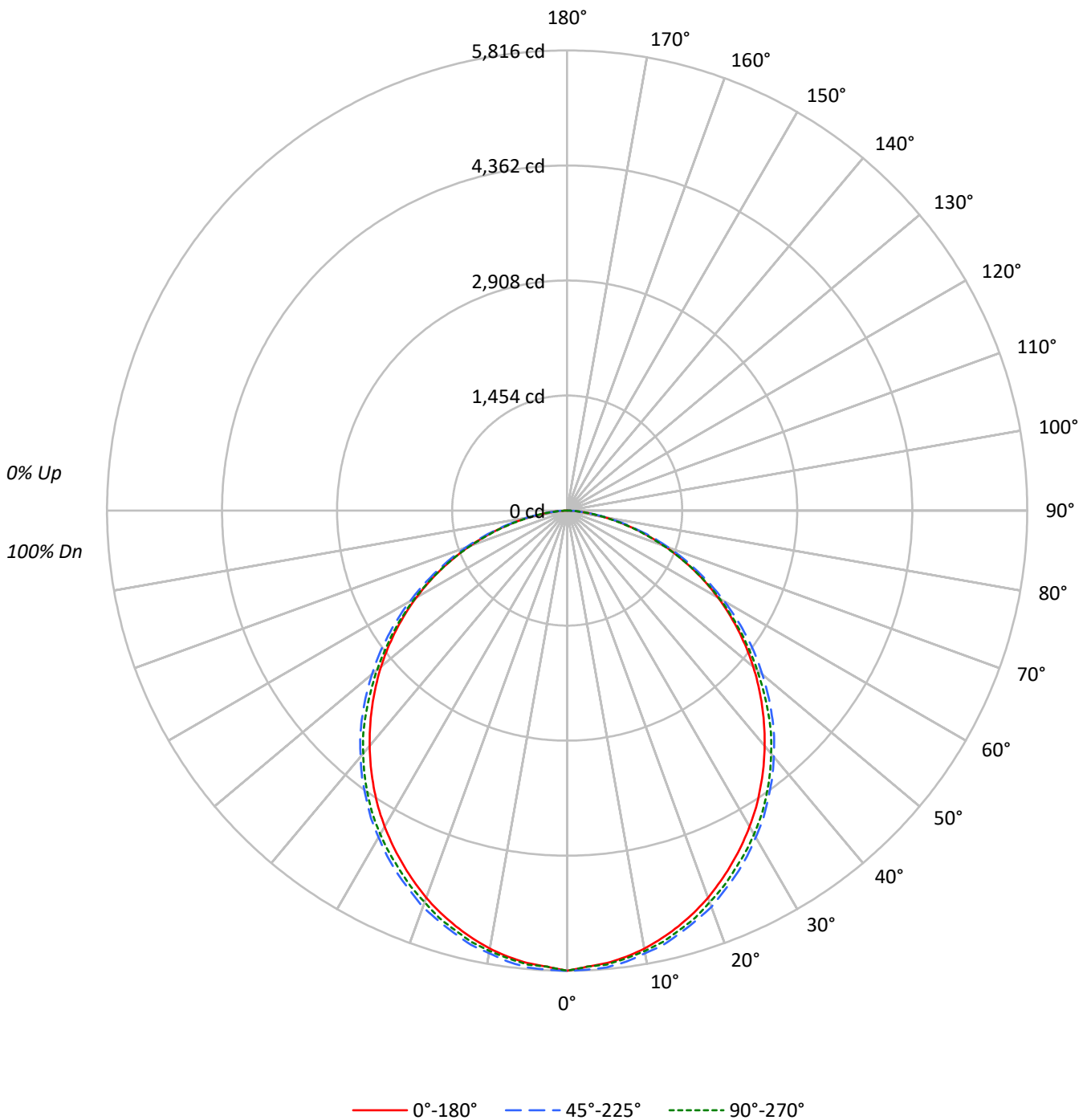
Lumens per Lamp: N/A
Luminaire Lumens: 15291.2 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7826	7826	7826
5°	7753	7826	7778
10°	7682	7760	7723
15°	7576	7698	7644
20°	7457	7634	7542
25°	7311	7524	7437
30°	7164	7407	7339
35°	7002	7280	7212
40°	6820	7134	7044
45°	6629	6963	6832
50°	6430	6741	6564
55°	6196	6486	6287
60°	5933	6179	5988
65°	5591	5805	5595
70°	5144	5352	5087
75°	4530	4735	4461
80°	3681	3841	3639
85°	2563	2731	2666



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.8	3.6
10°-20°	1552.3	10.2
20°-30°	2315.1	15.1
30°-40°	2743.5	17.9
40°-50°	2776.0	18.2
50°-60°	2424.4	15.9
60°-70°	1771.6	11.6
70°-80°	942.7	6.2
80°-90°	217.9	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°	4415.2	28.9
0°-40°	7158.7	46.8
0°-60°	12359.0	80.8
0°-90°	15291.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15291.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5816	5816	5816	5816	5816	
5°	5740	5751	5794	5808	5759	544
15°	5439	5475	5527	5560	5488	1533
25°	4925	4985	5068	5087	5010	2269
35°	4263	4330	4432	4463	4391	2666
45°	3484	3546	3660	3663	3590	2688
55°	2642	2695	2765	2725	2680	2361
65°	1756	1792	1823	1787	1757	1738
75°	871	891	911	878	858	926
85°	166	169	177	179	173	210
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5816.2	5816.2	5816.2	5816.2	5816.2
2.5°	5770.8	5789.6	5809.0	5817.4	5770.2
5°	5740.5	5751.4	5794.4	5807.7	5758.7
7.5°	5690.8	5707.2	5749.0	5755.0	5707.8
10°	5622.9	5652.0	5679.9	5710.2	5652.6
12.5°	5536.3	5575.7	5622.9	5628.4	5584.7
15°	5438.7	5475.1	5526.6	5559.9	5487.8
17.5°	5329.6	5364.8	5431.4	5437.5	5393.9
20°	5207.8	5251.5	5331.4	5345.4	5267.2
22.5°	5069.7	5128.4	5195.1	5208.4	5150.9
25°	4924.8	4985.4	5067.8	5086.6	5009.7
27.5°	4773.3	4831.5	4924.2	4937.6	4872.7
30°	4610.9	4665.5	4767.3	4789.7	4723.6
32.5°	4446.1	4500.6	4613.4	4632.1	4567.9
35°	4263.1	4329.8	4432.2	4463.1	4391.0
37.5°	4076.5	4141.3	4257.6	4285.5	4207.9
40°	3883.1	3947.4	4061.9	4084.9	4010.4
42.5°	3685.6	3749.8	3872.2	3875.9	3814.1
45°	3483.8	3545.6	3659.5	3662.6	3590.5
47.5°	3279.0	3341.4	3443.2	3431.7	3363.8
50°	3071.7	3131.1	3220.2	3197.2	3136.0
52.5°	2857.2	2914.8	2999.0	2961.4	2903.9
55°	2641.5	2694.8	2765.1	2725.1	2680.3
57.5°	2423.9	2477.9	2531.8	2491.2	2452.4
60°	2204.6	2251.8	2296.1	2254.9	2225.2
62.5°	1981.6	2022.2	2060.3	2021.0	1993.1
65°	1756.1	1791.9	1823.4	1787.0	1757.4
67.5°	1531.9	1562.2	1591.3	1553.7	1522.8
70°	1307.7	1333.8	1360.4	1321.6	1293.2
72.5°	1086.5	1109.6	1133.2	1095.6	1070.8
75°	871.4	891.4	910.8	877.5	858.1
77.5°	666.0	682.9	696.3	675.1	656.3
80°	475.1	487.8	495.7	487.2	469.6
82.5°	305.4	314.5	318.7	318.1	306.6
85°	166.0	169.1	176.9	178.8	172.7
87.5°	64.2	68.5	70.3	75.7	69.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)