

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: P489535

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4STD-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: P489535
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-LD4-4STD-40-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

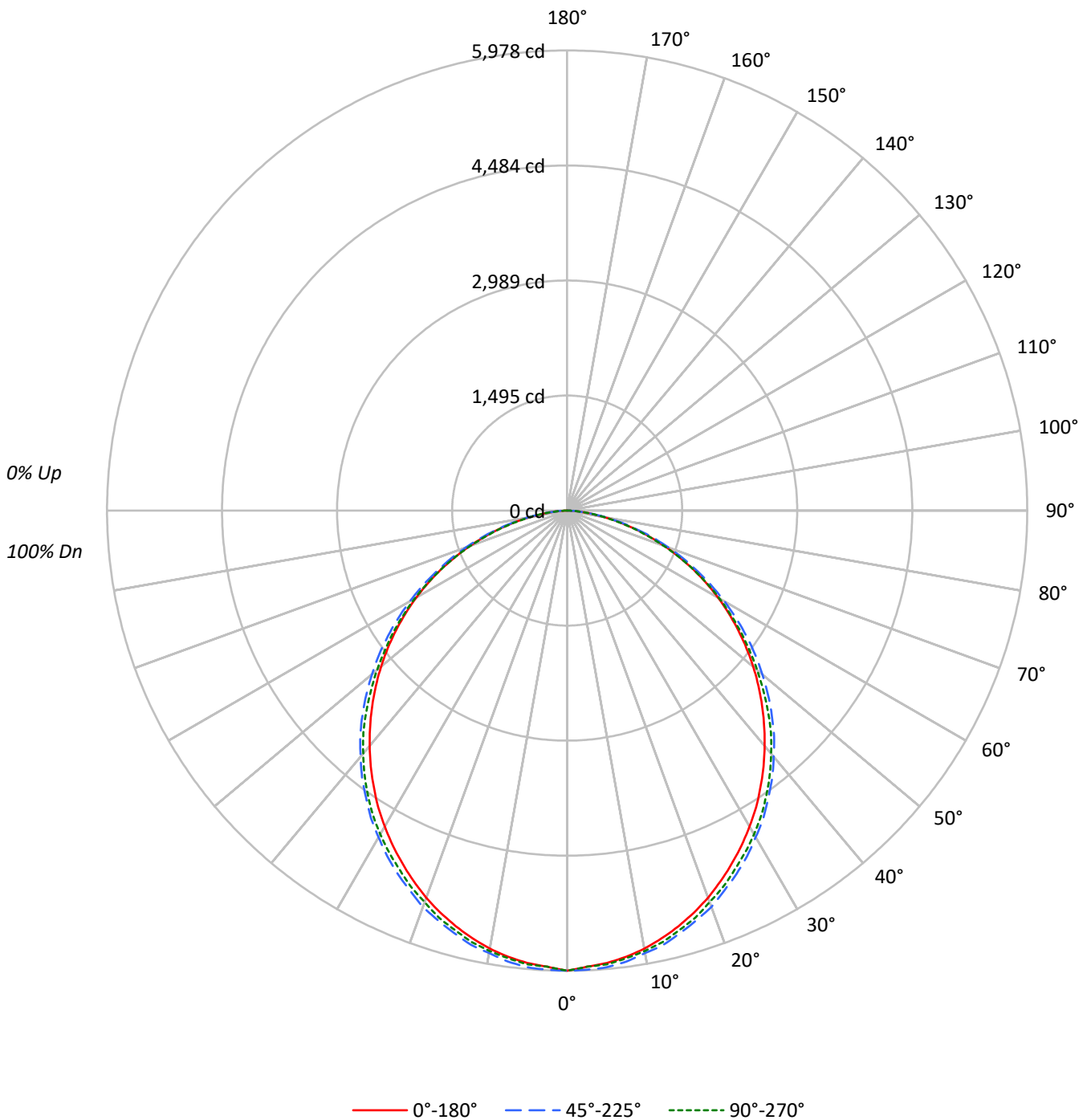
Lumens per Lamp: N/A
Luminaire Lumens: 15716.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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°	8043	8043	8043
5°	7969	8044	7994
10°	7896	7976	7937
15°	7786	7912	7857
20°	7664	7846	7751
25°	7514	7733	7644
30°	7363	7612	7543
35°	7197	7482	7413
40°	7010	7332	7240
45°	6813	7157	7022
50°	6608	6928	6747
55°	6369	6666	6462
60°	6097	6350	6154
65°	5746	5967	5750
70°	5287	5500	5229
75°	4656	4866	4585
80°	3784	3948	3740
85°	2635	2808	2740



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.0	3.6
10°-20°	1595.4	10.2
20°-30°	2379.5	15.1
30°-40°	2819.7	17.9
40°-50°	2853.1	18.2
50°-60°	2491.8	15.9
60°-70°	1820.9	11.6
70°-80°	968.9	6.2
80°-90°	223.9	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°	4537.8	28.9
0°-40°	7357.5	46.8
0°-60°	12702.3	80.8
0°-90°	15716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5978	5978	5978	5978	5978	
5°	5900	5911	5955	5969	5919	559
15°	5590	5627	5680	5714	5640	1576
25°	5062	5124	5209	5228	5149	2332
35°	4382	4450	4555	4587	4513	2740
45°	3581	3644	3761	3764	3690	2762
55°	2715	2770	2842	2801	2755	2427
65°	1805	1842	1874	1837	1806	1786
75°	896	916	936	902	882	952
85°	171	174	182	184	178	216
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5977.8	5977.8	5977.8	5977.8	5977.8
2.5°	5931.1	5950.4	5970.3	5979.1	5930.5
5°	5900.0	5911.2	5955.4	5969.1	5918.6
7.5°	5848.9	5865.7	5908.7	5914.9	5866.3
10°	5779.1	5809.0	5837.7	5868.8	5809.6
12.5°	5690.1	5730.5	5779.1	5784.7	5739.9
15°	5589.8	5627.2	5680.1	5714.4	5640.2
17.5°	5477.7	5513.8	5582.3	5588.5	5543.7
20°	5352.5	5397.3	5479.6	5493.9	5413.5
22.5°	5210.5	5270.9	5339.4	5353.1	5294.0
25°	5061.6	5123.9	5208.6	5227.9	5148.8
27.5°	4905.9	4965.7	5061.0	5074.7	5008.1
30°	4739.0	4795.1	4899.7	4922.8	4854.9
32.5°	4569.6	4625.7	4741.5	4760.8	4694.8
35°	4381.5	4450.0	4555.3	4587.1	4512.9
37.5°	4189.7	4256.3	4375.9	4404.6	4324.8
40°	3991.0	4057.0	4174.7	4198.4	4121.8
42.5°	3788.0	3854.0	3979.8	3983.5	3920.0
45°	3580.6	3644.1	3761.2	3764.3	3690.2
47.5°	3370.1	3434.2	3538.9	3527.0	3457.3
50°	3157.1	3218.1	3309.7	3286.0	3223.1
52.5°	2936.6	2995.8	3082.3	3043.7	2984.5
55°	2714.9	2769.7	2841.9	2800.8	2754.7
57.5°	2491.3	2546.7	2602.1	2560.4	2520.5
60°	2265.8	2314.4	2359.9	2317.5	2287.0
62.5°	2036.6	2078.3	2117.6	2077.1	2048.4
65°	1804.9	1841.7	1874.1	1836.7	1806.2
67.5°	1574.5	1605.6	1635.5	1596.9	1565.1
70°	1344.0	1370.8	1398.2	1358.4	1329.1
72.5°	1116.7	1140.4	1164.7	1126.1	1100.5
75°	895.6	916.2	936.1	901.8	881.9
77.5°	684.5	701.9	715.6	693.8	674.5
80°	488.3	501.4	509.5	500.7	482.7
82.5°	313.9	323.2	327.6	327.0	315.1
85°	170.7	173.8	181.9	183.7	177.5
87.5°	66.0	70.4	72.2	77.9	71.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)