

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: P489437

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2HI-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: P489437
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-LD4-2HI-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

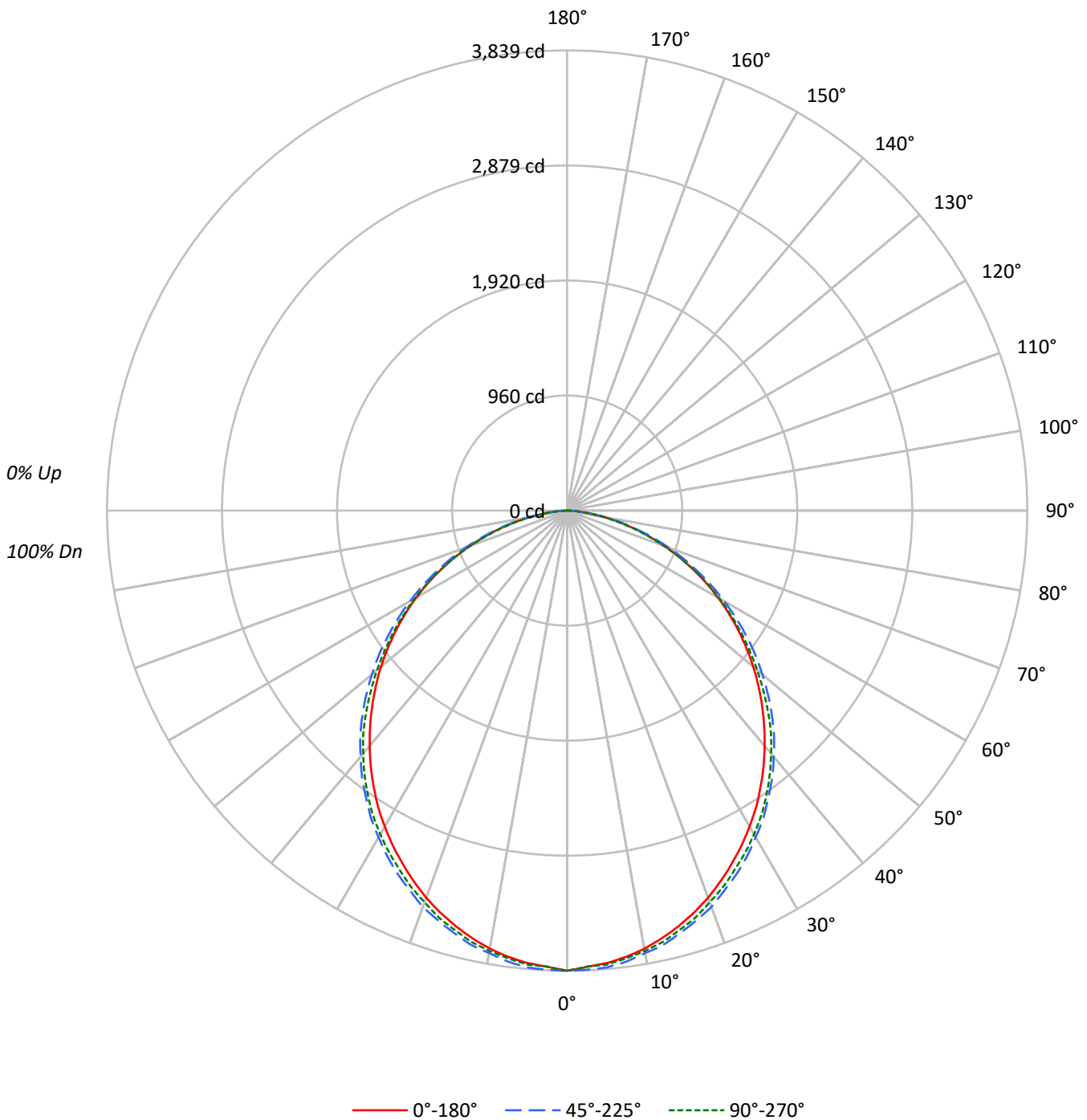
Lumens per Lamp: N/A
Luminaire Lumens: 10093.2 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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°	5165	5165	5165
5°	5118	5166	5134
10°	5071	5122	5098
15°	5001	5081	5046
20°	4922	5039	4978
25°	4826	4966	4909
30°	4728	4889	4844
35°	4622	4805	4761
40°	4502	4709	4649
45°	4376	4596	4509
50°	4244	4449	4333
55°	4090	4281	4150
60°	3916	4078	3953
65°	3691	3832	3693
70°	3396	3533	3358
75°	2990	3125	2944
80°	2430	2535	2402
85°	1692	1803	1760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.6	3.6
10°-20°	1024.6	10.2
20°-30°	1528.1	15.1
30°-40°	1810.9	17.9
40°-50°	1832.3	18.2
50°-60°	1600.3	15.9
60°-70°	1169.4	11.6
70°-80°	622.2	6.2
80°-90°	143.8	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
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0°-30°	2914.3	28.9
0°-40°	4725.2	46.8
0°-60°	8157.7	80.8
0°-90°	10093.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10093.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3839	3839	3839	3839	3839	
5°	3789	3796	3825	3834	3801	359
15°	3590	3614	3648	3670	3622	1012
25°	3251	3291	3345	3358	3307	1498
35°	2814	2858	2926	2946	2898	1760
45°	2300	2340	2416	2418	2370	1774
55°	1744	1779	1825	1799	1769	1559
65°	1159	1183	1204	1180	1160	1147
75°	575	588	601	579	566	612
85°	110	112	117	118	114	139
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3839.1	3839.1	3839.1	3839.1	3839.1
2.5°	3809.1	3821.5	3834.3	3839.9	3808.7
5°	3789.1	3796.3	3824.7	3833.5	3801.1
7.5°	3756.3	3767.1	3794.7	3798.7	3767.5
10°	3711.5	3730.7	3749.1	3769.1	3731.1
12.5°	3654.3	3680.3	3711.5	3715.1	3686.3
15°	3589.9	3613.9	3647.9	3669.9	3622.3
17.5°	3517.9	3541.1	3585.1	3589.1	3560.3
20°	3437.5	3466.3	3519.1	3528.3	3476.7
22.5°	3346.3	3385.1	3429.1	3437.9	3399.9
25°	3250.7	3290.7	3345.1	3357.5	3306.7
27.5°	3150.7	3189.1	3250.3	3259.1	3216.3
30°	3043.5	3079.5	3146.7	3161.5	3117.9
32.5°	2934.7	2970.7	3045.1	3057.5	3015.1
35°	2813.9	2857.9	2925.5	2945.9	2898.3
37.5°	2690.7	2733.5	2810.3	2828.7	2777.5
40°	2563.1	2605.5	2681.1	2696.3	2647.1
42.5°	2432.7	2475.1	2555.9	2558.3	2517.5
45°	2299.5	2340.3	2415.5	2417.5	2369.9
47.5°	2164.3	2205.5	2272.7	2265.1	2220.3
50°	2027.5	2066.7	2125.5	2110.3	2069.9
52.5°	1885.9	1923.9	1979.5	1954.7	1916.7
55°	1743.6	1778.8	1825.1	1798.8	1769.2
57.5°	1600.0	1635.6	1671.2	1644.4	1618.8
60°	1455.2	1486.4	1515.6	1488.4	1468.8
62.5°	1308.0	1334.8	1360.0	1334.0	1315.6
65°	1159.2	1182.8	1203.6	1179.6	1160.0
67.5°	1011.2	1031.2	1050.4	1025.6	1005.2
70°	863.2	880.4	898.0	872.4	853.6
72.5°	717.2	732.4	748.0	723.2	706.8
75°	575.2	588.4	601.2	579.2	566.4
77.5°	439.6	450.8	459.6	445.6	433.2
80°	313.6	322.0	327.2	321.6	310.0
82.5°	201.6	207.6	210.4	210.0	202.4
85°	109.6	111.6	116.8	118.0	114.0
87.5°	42.4	45.2	46.4	50.0	46.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)