

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: P488631

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3STD-30-120-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: P488631
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-12-4-INS-A12125-LD4-3STD-30-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

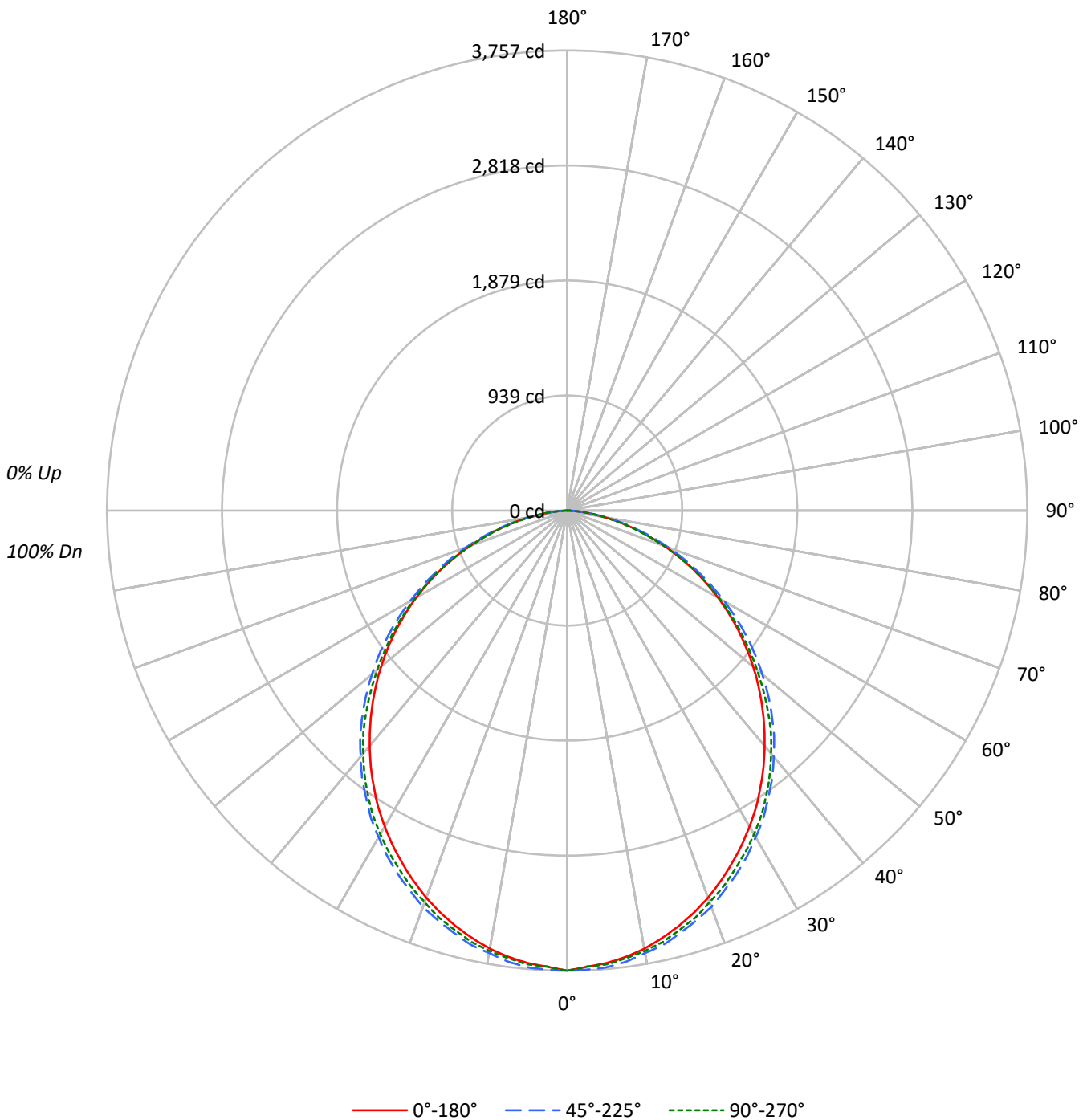
Lumens per Lamp: N/A
Luminaire Lumens: 9876.5 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	10109	10109	10109
5°	10015	10110	10047
10°	9924	10024	9976
15°	9786	9945	9875
20°	9633	9861	9743
25°	9445	9719	9607
30°	9254	9568	9480
35°	9045	9404	9317
40°	8811	9216	9099
45°	8563	8995	8826
50°	8306	8707	8480
55°	8004	8379	8122
60°	7663	7981	7735
65°	7223	7499	7228
70°	6645	6914	6572
75°	5852	6117	5762
80°	4756	4962	4700
85°	3310	3529	3443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.8	3.6
10°-20°	1002.6	10.2
20°-30°	1495.3	15.1
30°-40°	1772.0	17.9
40°-50°	1793.0	18.2
50°-60°	1565.9	15.9
60°-70°	1144.3	11.6
70°-80°	608.9	6.2
80°-90°	140.7	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°	2851.7	28.9
0°-40°	4623.7	46.8
0°-60°	7982.6	80.8
0°-90°	9876.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9876.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3757	3757	3757	3757	3757	
5°	3708	3715	3743	3751	3720	352
15°	3513	3536	3570	3591	3544	990
25°	3181	3220	3273	3285	3236	1465
35°	2754	2797	2863	2883	2836	1722
45°	2250	2290	2364	2366	2319	1736
55°	1706	1741	1786	1760	1731	1525
65°	1134	1157	1178	1154	1135	1122
75°	563	576	588	567	554	598
85°	107	109	114	116	112	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3756.7	3756.7	3756.7	3756.7	3756.7
2.5°	3727.3	3739.4	3752.0	3757.5	3726.9
5°	3707.7	3714.8	3742.6	3751.2	3719.5
7.5°	3675.6	3686.2	3713.2	3717.1	3686.6
10°	3631.8	3650.6	3668.6	3688.2	3651.0
12.5°	3575.8	3601.3	3631.8	3635.3	3607.2
15°	3512.8	3536.3	3569.6	3591.1	3544.5
17.5°	3442.4	3465.1	3508.1	3512.0	3483.9
20°	3363.7	3391.9	3443.5	3452.6	3402.1
22.5°	3274.5	3312.4	3355.5	3364.1	3326.9
25°	3180.9	3220.1	3273.3	3285.4	3235.7
27.5°	3083.1	3120.6	3180.5	3189.1	3147.3
30°	2978.2	3013.4	3079.2	3093.6	3051.0
32.5°	2871.7	2906.9	2979.7	2991.9	2950.4
35°	2753.5	2796.6	2862.7	2882.7	2836.1
37.5°	2633.0	2674.8	2750.0	2768.0	2717.9
40°	2508.1	2549.6	2623.6	2638.4	2590.3
42.5°	2380.5	2422.0	2501.1	2503.4	2463.5
45°	2250.2	2290.1	2363.7	2365.6	2319.1
47.5°	2117.9	2158.2	2223.9	2216.5	2172.7
50°	1984.0	2022.4	2079.9	2065.0	2025.5
52.5°	1845.5	1882.6	1937.0	1912.8	1875.6
55°	1706.1	1740.6	1786.0	1760.1	1731.2
57.5°	1565.6	1600.4	1635.3	1609.1	1584.0
60°	1423.9	1454.4	1483.0	1456.4	1437.2
62.5°	1279.9	1306.1	1330.8	1305.3	1287.3
65°	1134.3	1157.4	1177.7	1154.2	1135.1
67.5°	989.5	1009.0	1027.8	1003.6	983.6
70°	844.6	861.5	878.7	853.6	835.3
72.5°	701.8	716.7	731.9	707.7	691.6
75°	562.8	575.8	588.3	566.7	554.2
77.5°	430.1	441.1	449.7	436.0	423.9
80°	306.9	315.1	320.2	314.7	303.3
82.5°	197.3	203.1	205.9	205.5	198.0
85°	107.2	109.2	114.3	115.5	111.5
87.5°	41.5	44.2	45.4	48.9	45.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)