

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: P489496

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3STD-35-120-EDD-90**

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: P489496
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-LD4-3STD-35-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

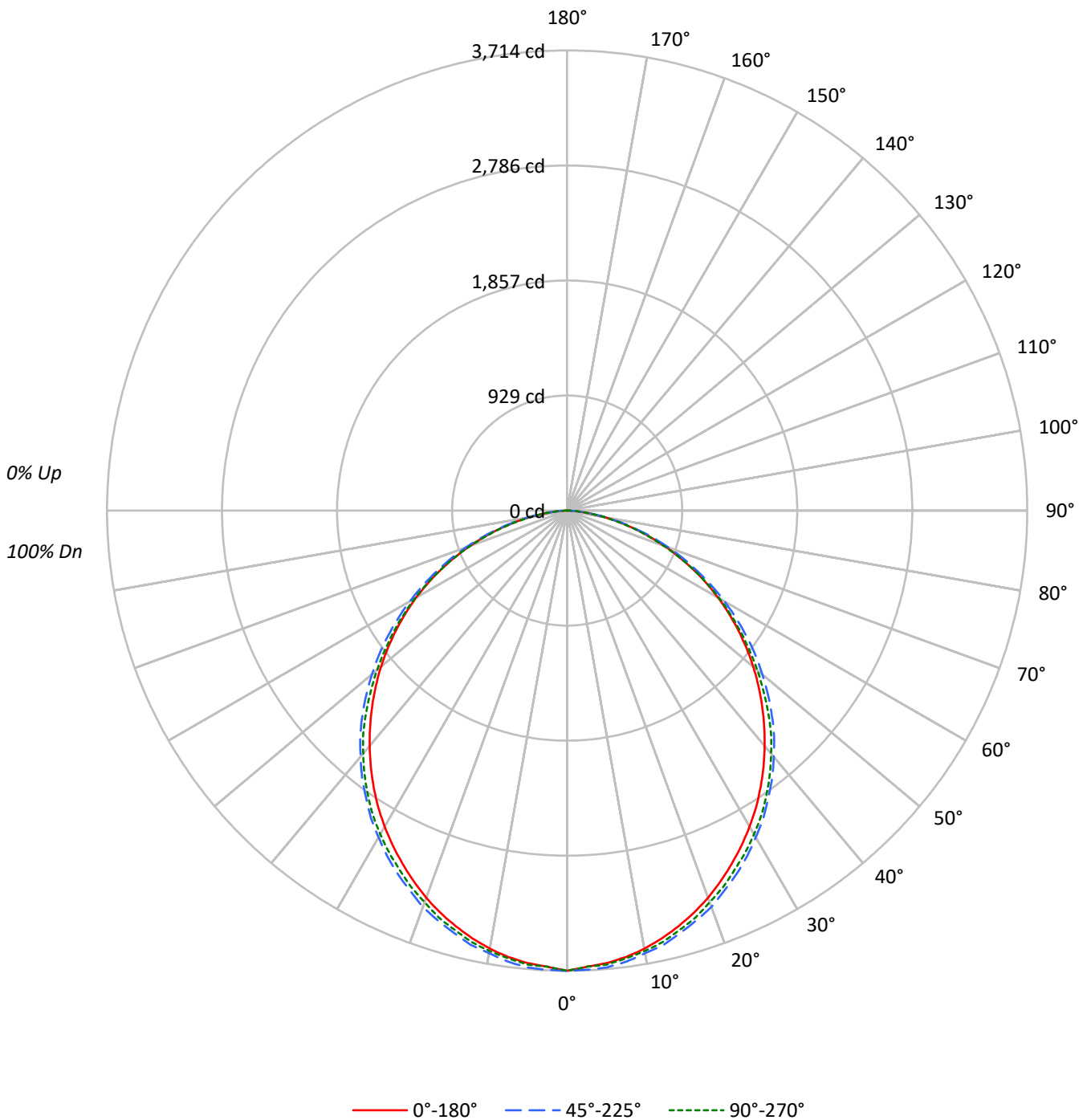
Lumens per Lamp: N/A
Luminaire Lumens: 9765.1 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4998	4998	4998
5°	4951	4998	4967
10°	4906	4956	4932
15°	4838	4916	4882
20°	4762	4875	4816
25°	4669	4805	4749
30°	4575	4730	4687
35°	4472	4649	4606
40°	4356	4556	4498
45°	4233	4447	4363
50°	4106	4304	4192
55°	3957	4142	4015
60°	3789	3946	3824
65°	3571	3707	3573
70°	3285	3418	3249
75°	2893	3023	2849
80°	2351	2453	2324
85°	1636	1744	1703



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.8	3.6
10°-20°	991.3	10.2
20°-30°	1478.5	15.1
30°-40°	1752.0	17.9
40°-50°	1772.8	18.2
50°-60°	1548.2	15.9
60°-70°	1131.4	11.6
70°-80°	602.0	6.2
80°-90°	139.1	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°	2819.6	28.9
0°-40°	4571.6	46.8
0°-60°	7892.6	80.8
0°-90°	9765.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9765.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3714	3714	3714	3714	3714	
5°	3666	3673	3700	3709	3678	348
15°	3473	3496	3529	3551	3504	979
25°	3145	3184	3236	3248	3199	1449
35°	2722	2765	2830	2850	2804	1703
45°	2225	2264	2337	2339	2293	1716
55°	1687	1721	1766	1740	1712	1508
65°	1122	1144	1164	1141	1122	1110
75°	556	569	582	560	548	592
85°	106	108	113	114	110	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3714.3	3714.3	3714.3	3714.3	3714.3
2.5°	3685.3	3697.3	3709.7	3715.1	3684.9
5°	3665.9	3672.9	3700.4	3708.9	3677.5
7.5°	3634.2	3644.6	3671.3	3675.2	3645.0
10°	3590.8	3609.4	3627.2	3646.6	3609.8
12.5°	3535.5	3560.7	3590.8	3594.3	3566.5
15°	3473.2	3496.4	3529.3	3550.6	3504.5
17.5°	3403.5	3426.0	3468.6	3472.4	3444.6
20°	3325.8	3353.6	3404.7	3413.6	3363.7
22.5°	3237.5	3275.1	3317.6	3326.1	3289.4
25°	3145.0	3183.7	3236.4	3248.4	3199.2
27.5°	3048.3	3085.4	3144.7	3153.2	3111.8
30°	2944.6	2979.4	3044.4	3058.7	3016.6
32.5°	2839.3	2874.1	2946.1	2958.1	2917.1
35°	2722.5	2765.0	2830.4	2850.2	2804.1
37.5°	2603.3	2644.7	2719.0	2736.8	2687.2
40°	2479.8	2520.8	2594.0	2608.7	2561.1
42.5°	2353.7	2394.7	2472.8	2475.2	2435.7
45°	2224.8	2264.3	2337.0	2338.9	2292.9
47.5°	2094.0	2133.8	2198.9	2191.5	2148.2
50°	1961.6	1999.6	2056.4	2041.7	2002.7
52.5°	1824.6	1861.4	1915.2	1891.2	1854.4
55°	1686.9	1720.9	1765.8	1740.3	1711.6
57.5°	1547.9	1582.4	1616.8	1590.9	1566.1
60°	1407.9	1438.0	1466.3	1440.0	1421.0
62.5°	1265.4	1291.4	1315.8	1290.6	1272.8
65°	1121.5	1144.3	1164.4	1141.2	1122.3
67.5°	978.3	997.7	1016.2	992.2	972.5
70°	835.1	851.8	868.8	844.0	825.8
72.5°	693.9	708.6	723.7	699.7	683.8
75°	556.5	569.3	581.6	560.4	548.0
77.5°	425.3	436.1	444.6	431.1	419.1
80°	303.4	311.5	316.6	311.1	299.9
82.5°	195.0	200.8	203.6	203.2	195.8
85°	106.0	108.0	113.0	114.2	110.3
87.5°	41.0	43.7	44.9	48.4	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)