

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: P489524

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4LO-50-120-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: P489524
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-LD4-4LO-50-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

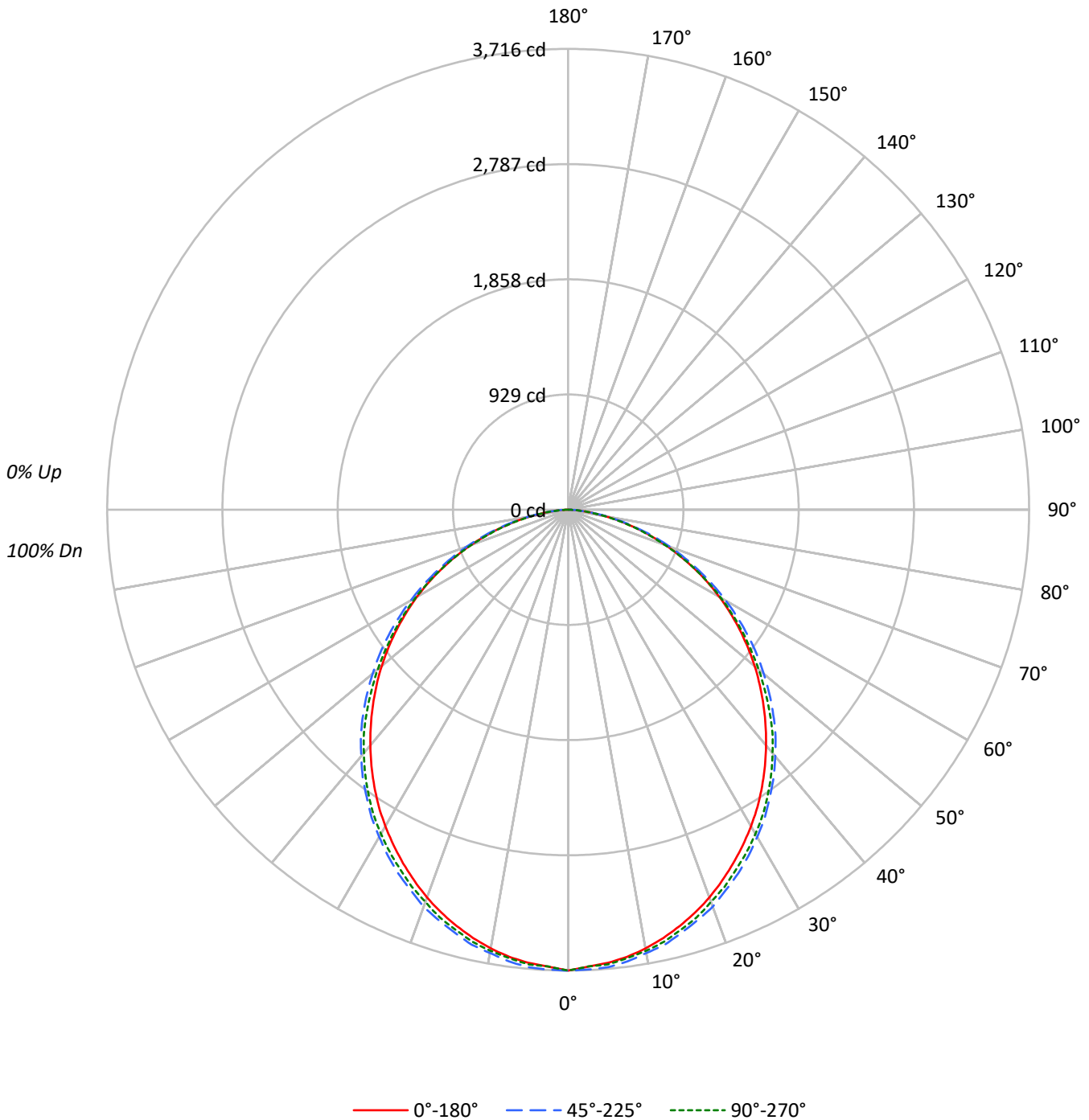
Lumens per Lamp: N/A
Luminaire Lumens: 9771.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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°	5001	5001	5001
5°	4954	5001	4970
10°	4909	4959	4935
15°	4841	4919	4885
20°	4765	4878	4819
25°	4672	4808	4752
30°	4578	4733	4689
35°	4474	4652	4609
40°	4358	4559	4501
45°	4236	4450	4366
50°	4109	4307	4195
55°	3959	4145	4018
60°	3791	3948	3826
65°	3573	3709	3575
70°	3287	3420	3251
75°	2895	3026	2850
80°	2352	2454	2325
85°	1638	1746	1704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.0	3.6
10°-20°	991.9	10.2
20°-30°	1479.4	15.1
30°-40°	1753.1	17.9
40°-50°	1773.8	18.2
50°-60°	1549.2	15.9
60°-70°	1132.1	11.6
70°-80°	602.4	6.2
80°-90°	139.2	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°	2821.3	28.9
0°-40°	4574.3	46.8
0°-60°	7897.4	80.8
0°-90°	9771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9771.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3716	3716	3716	3716	3716	
5°	3668	3675	3703	3711	3680	348
15°	3475	3498	3531	3553	3507	980
25°	3147	3186	3238	3250	3201	1450
35°	2724	2767	2832	2852	2806	1704
45°	2226	2266	2338	2340	2294	1717
55°	1688	1722	1767	1741	1713	1509
65°	1122	1145	1165	1142	1123	1110
75°	557	570	582	561	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°	3716.5	3716.5	3716.5	3716.5	3716.5
2.5°	3687.5	3699.5	3711.9	3717.3	3687.1
5°	3668.1	3675.1	3702.6	3711.1	3679.8
7.5°	3636.4	3646.8	3673.6	3677.4	3647.2
10°	3593.0	3611.6	3629.4	3648.8	3612.0
12.5°	3537.6	3562.8	3593.0	3596.5	3568.6
15°	3475.3	3498.5	3531.4	3552.7	3506.7
17.5°	3405.6	3428.1	3470.7	3474.5	3446.6
20°	3327.8	3355.7	3406.8	3415.7	3365.7
22.5°	3239.5	3277.0	3319.6	3328.2	3291.4
25°	3146.9	3185.7	3238.3	3250.3	3201.2
27.5°	3050.1	3087.3	3146.6	3155.1	3113.6
30°	2946.4	2981.2	3046.3	3060.6	3018.4
32.5°	2841.0	2875.9	2947.9	2959.9	2918.9
35°	2724.1	2766.7	2832.1	2851.9	2805.8
37.5°	2604.8	2646.3	2720.6	2738.4	2688.9
40°	2481.3	2522.4	2595.5	2610.3	2562.6
42.5°	2355.1	2396.1	2474.3	2476.7	2437.2
45°	2226.1	2265.6	2338.4	2340.4	2294.3
47.5°	2095.2	2135.1	2200.2	2192.8	2149.5
50°	1962.8	2000.8	2057.7	2043.0	2003.9
52.5°	1825.7	1862.5	1916.4	1892.3	1855.6
55°	1687.9	1722.0	1766.9	1741.3	1712.7
57.5°	1548.9	1583.3	1617.8	1591.9	1567.1
60°	1408.7	1438.9	1467.2	1440.8	1421.9
62.5°	1266.2	1292.2	1316.5	1291.4	1273.6
65°	1122.2	1145.0	1165.1	1141.9	1122.9
67.5°	978.9	998.3	1016.8	992.8	973.1
70°	835.6	852.3	869.3	844.5	826.3
72.5°	694.3	709.0	724.1	700.1	684.2
75°	556.8	569.6	582.0	560.7	548.3
77.5°	425.6	436.4	444.9	431.4	419.4
80°	303.6	311.7	316.7	311.3	300.1
82.5°	195.2	201.0	203.7	203.3	195.9
85°	106.1	108.0	113.1	114.2	110.4
87.5°	41.0	43.8	44.9	48.4	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)