

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: P489527

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4STD-20-120-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: P489527
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-20-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

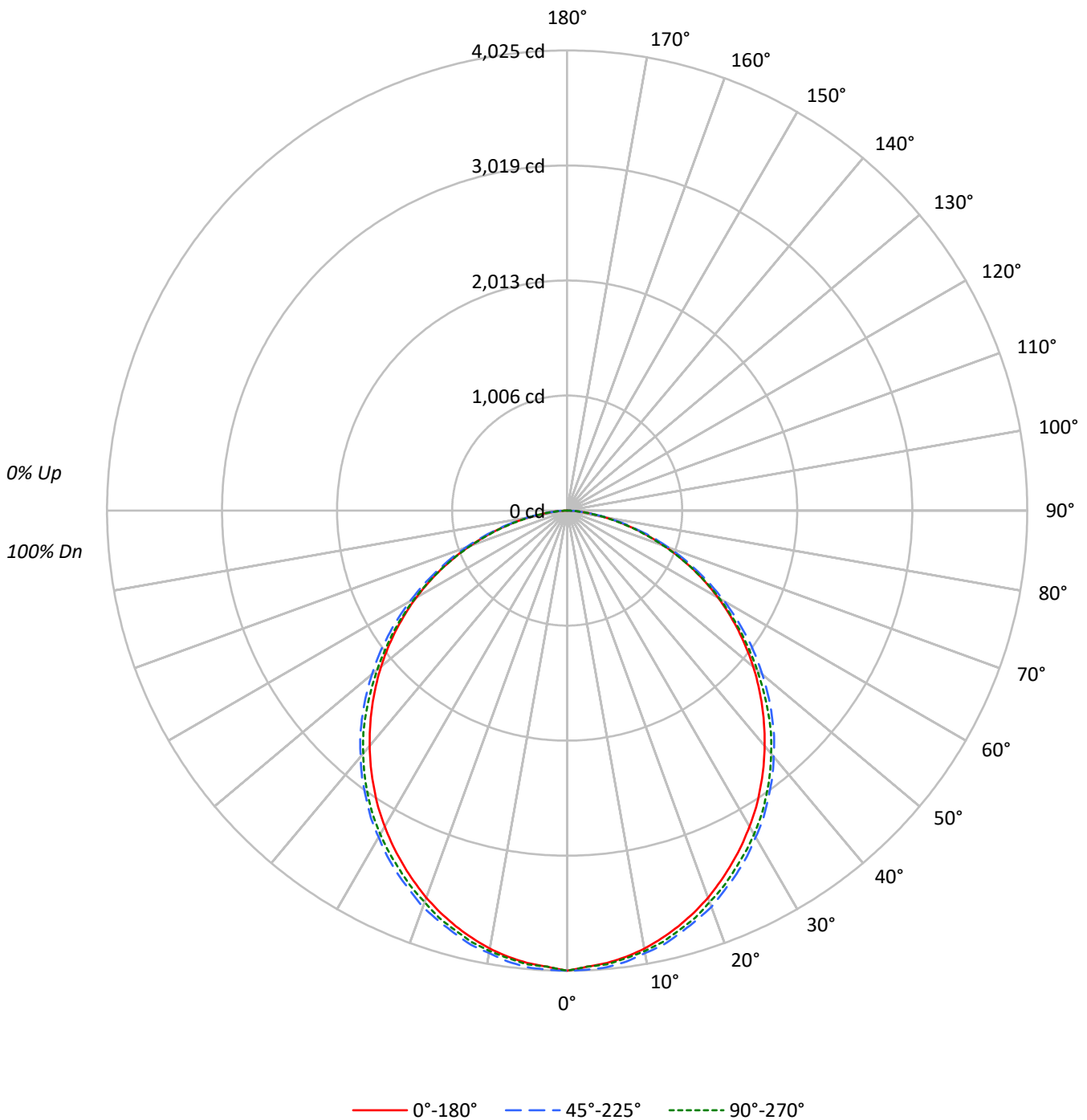
Lumens per Lamp: N/A
Luminaire Lumens: 10581.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	5415	5415	5415
5°	5365	5415	5382
10°	5316	5370	5344
15°	5242	5327	5290
20°	5160	5282	5219
25°	5059	5206	5146
30°	4957	5125	5078
35°	4845	5038	4991
40°	4719	4937	4874
45°	4587	4818	4728
50°	4449	4664	4542
55°	4288	4488	4351
60°	4105	4275	4143
65°	3869	4017	3871
70°	3560	3703	3520
75°	3135	3276	3087
80°	2547	2658	2518
85°	1774	1890	1845



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.0	3.6
10°-20°	1074.1	10.2
20°-30°	1602.0	15.1
30°-40°	1898.4	17.9
40°-50°	1920.9	18.2
50°-60°	1677.6	15.9
60°-70°	1225.9	11.6
70°-80°	652.3	6.2
80°-90°	150.8	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
0°-30°	3055.2	28.9
0°-40°	4953.5	46.8
0°-60°	8552.0	80.8
0°-90°	10581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4025	4025	4025	4025	4025	
5°	3972	3980	4010	4019	3985	377
15°	3763	3789	3824	3847	3797	1061
25°	3408	3450	3507	3520	3466	1570
35°	2950	2996	3067	3088	3038	1845
45°	2411	2453	2532	2534	2484	1860
55°	1828	1865	1913	1886	1855	1634
65°	1215	1240	1262	1237	1216	1203
75°	603	617	630	607	594	641
85°	115	117	122	124	120	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4024.6	4024.6	4024.6	4024.6	4024.6
2.5°	3993.2	4006.2	4019.6	4025.5	3992.8
5°	3972.2	3979.8	4009.5	4018.8	3984.8
7.5°	3937.8	3949.2	3978.1	3982.3	3949.6
10°	3890.9	3911.0	3930.3	3951.3	3911.4
12.5°	3830.9	3858.2	3890.9	3894.6	3864.5
15°	3763.4	3788.6	3824.2	3847.3	3797.4
17.5°	3687.9	3712.2	3758.4	3762.6	3732.4
20°	3603.6	3633.8	3689.2	3698.8	3644.7
22.5°	3508.0	3548.7	3594.8	3604.1	3564.2
25°	3407.8	3449.7	3506.8	3519.8	3466.5
27.5°	3303.0	3343.2	3407.4	3416.6	3371.8
30°	3190.6	3228.3	3298.8	3314.3	3268.6
32.5°	3076.6	3114.3	3192.3	3205.3	3160.8
35°	2949.9	2996.0	3066.9	3088.3	3038.4
37.5°	2820.8	2865.6	2946.1	2965.4	2911.8
40°	2687.0	2731.5	2810.7	2826.6	2775.1
42.5°	2550.3	2594.8	2679.5	2682.0	2639.2
45°	2410.7	2453.4	2532.3	2534.4	2484.5
47.5°	2268.9	2312.1	2382.6	2374.6	2327.6
50°	2125.5	2166.6	2228.3	2212.3	2170.0
52.5°	1977.1	2016.9	2075.2	2049.2	2009.4
55°	1827.8	1864.7	1913.4	1885.7	1854.7
57.5°	1677.3	1714.6	1751.9	1723.8	1697.0
60°	1525.5	1558.2	1588.8	1560.3	1539.7
62.5°	1371.2	1399.3	1425.7	1398.4	1379.1
65°	1215.2	1239.9	1261.7	1236.6	1216.0
67.5°	1060.0	1081.0	1101.1	1075.1	1053.8
70°	904.9	922.9	941.4	914.5	894.8
72.5°	751.8	767.8	784.1	758.1	740.9
75°	603.0	616.8	630.2	607.2	593.8
77.5°	460.8	472.6	481.8	467.1	454.1
80°	328.7	337.6	343.0	337.1	325.0
82.5°	211.3	217.6	220.6	220.1	212.2
85°	114.9	117.0	122.4	123.7	119.5
87.5°	44.4	47.4	48.6	52.4	48.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)