

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: P488632

Luminaire Tested: **CLM-12-4-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: P488632
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-35-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

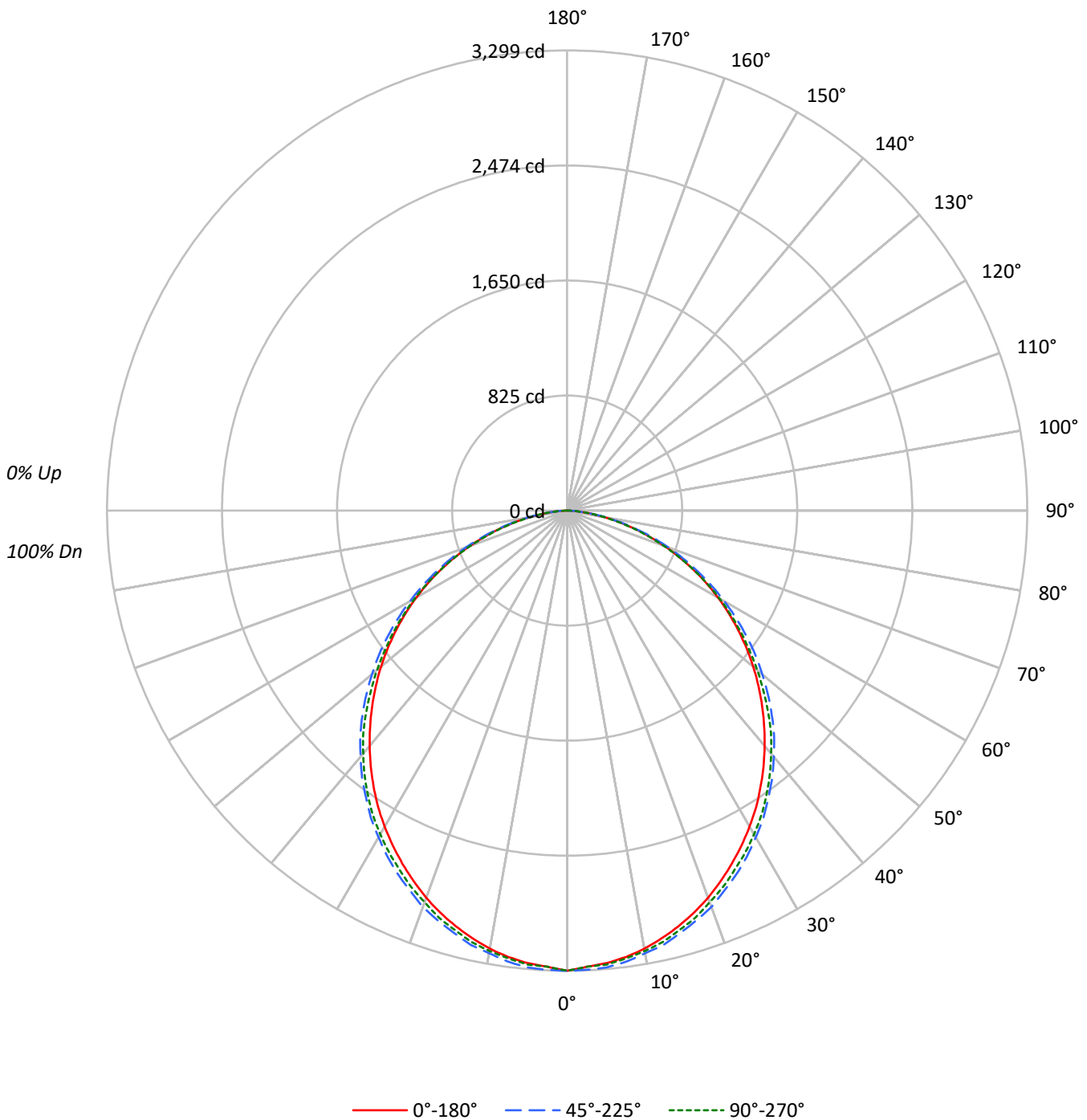
Lumens per Lamp: N/A
Luminaire Lumens: 8673.9 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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°	8878	8878	8878
5°	8796	8879	8824
10°	8716	8804	8761
15°	8595	8734	8672
20°	8460	8660	8556
25°	8295	8535	8437
30°	8127	8403	8326
35°	7944	8259	8182
40°	7738	8094	7991
45°	7521	7900	7751
50°	7294	7647	7447
55°	7030	7359	7133
60°	6730	7009	6793
65°	6343	6586	6348
70°	5836	6072	5771
75°	5139	5371	5060
80°	4176	4358	4128
85°	2908	3100	3026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.7	3.6
10°-20°	880.5	10.2
20°-30°	1313.3	15.1
30°-40°	1556.2	17.9
40°-50°	1574.7	18.2
50°-60°	1375.2	15.9
60°-70°	1005.0	11.6
70°-80°	534.7	6.2
80°-90°	123.6	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°	2504.5	28.9
0°-40°	4060.7	46.8
0°-60°	7010.6	80.8
0°-90°	8673.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8673.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3299	3299	3299	3299	3299	
5°	3256	3262	3287	3294	3267	309
15°	3085	3106	3135	3154	3113	870
25°	2794	2828	2875	2885	2842	1287
35°	2418	2456	2514	2532	2491	1512
45°	1976	2011	2076	2078	2037	1525
55°	1498	1529	1568	1546	1520	1339
65°	996	1016	1034	1014	997	986
75°	494	506	517	498	487	526
85°	94	96	100	101	98	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3299.2	3299.2	3299.2	3299.2	3299.2
2.5°	3273.5	3284.1	3295.1	3299.9	3273.1
5°	3256.3	3262.5	3286.9	3294.4	3266.6
7.5°	3228.1	3237.4	3261.1	3264.5	3237.7
10°	3189.6	3206.1	3221.9	3239.1	3206.4
12.5°	3140.4	3162.8	3189.6	3192.7	3167.9
15°	3085.1	3105.7	3134.9	3153.8	3112.9
17.5°	3023.2	3043.2	3081.0	3084.4	3059.7
20°	2954.1	2978.9	3024.2	3032.2	2987.8
22.5°	2875.8	2909.1	2946.9	2954.5	2921.8
25°	2793.6	2828.0	2874.7	2885.4	2841.7
27.5°	2707.7	2740.7	2793.3	2800.8	2764.0
30°	2615.5	2646.5	2704.2	2716.9	2679.5
32.5°	2522.0	2553.0	2616.9	2627.6	2591.1
35°	2418.2	2456.0	2514.1	2531.7	2490.8
37.5°	2312.4	2349.1	2415.1	2430.9	2386.9
40°	2202.7	2239.1	2304.1	2317.2	2274.9
42.5°	2090.6	2127.1	2196.5	2198.6	2163.5
45°	1976.2	2011.2	2075.9	2077.6	2036.7
47.5°	1860.0	1895.4	1953.1	1946.6	1908.1
50°	1742.4	1776.1	1826.6	1813.6	1778.9
52.5°	1620.7	1653.4	1701.2	1679.9	1647.2
55°	1498.4	1528.6	1568.5	1545.8	1520.4
57.5°	1375.0	1405.6	1436.2	1413.1	1391.1
60°	1250.5	1277.3	1302.4	1279.1	1262.2
62.5°	1124.0	1147.1	1168.7	1146.4	1130.6
65°	996.2	1016.4	1034.3	1013.7	996.9
67.5°	869.0	886.2	902.7	881.4	863.8
70°	741.8	756.6	771.7	749.7	733.5
72.5°	616.3	629.4	642.8	621.5	607.4
75°	494.3	505.6	516.6	497.7	486.7
77.5°	377.8	387.4	395.0	382.9	372.3
80°	269.5	276.7	281.2	276.4	266.4
82.5°	173.2	178.4	180.8	180.5	173.9
85°	94.2	95.9	100.4	101.4	98.0
87.5°	36.4	38.8	39.9	43.0	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)