

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: P488597

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2STD-35-120-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: P488597
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-LD4-2STD-35-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

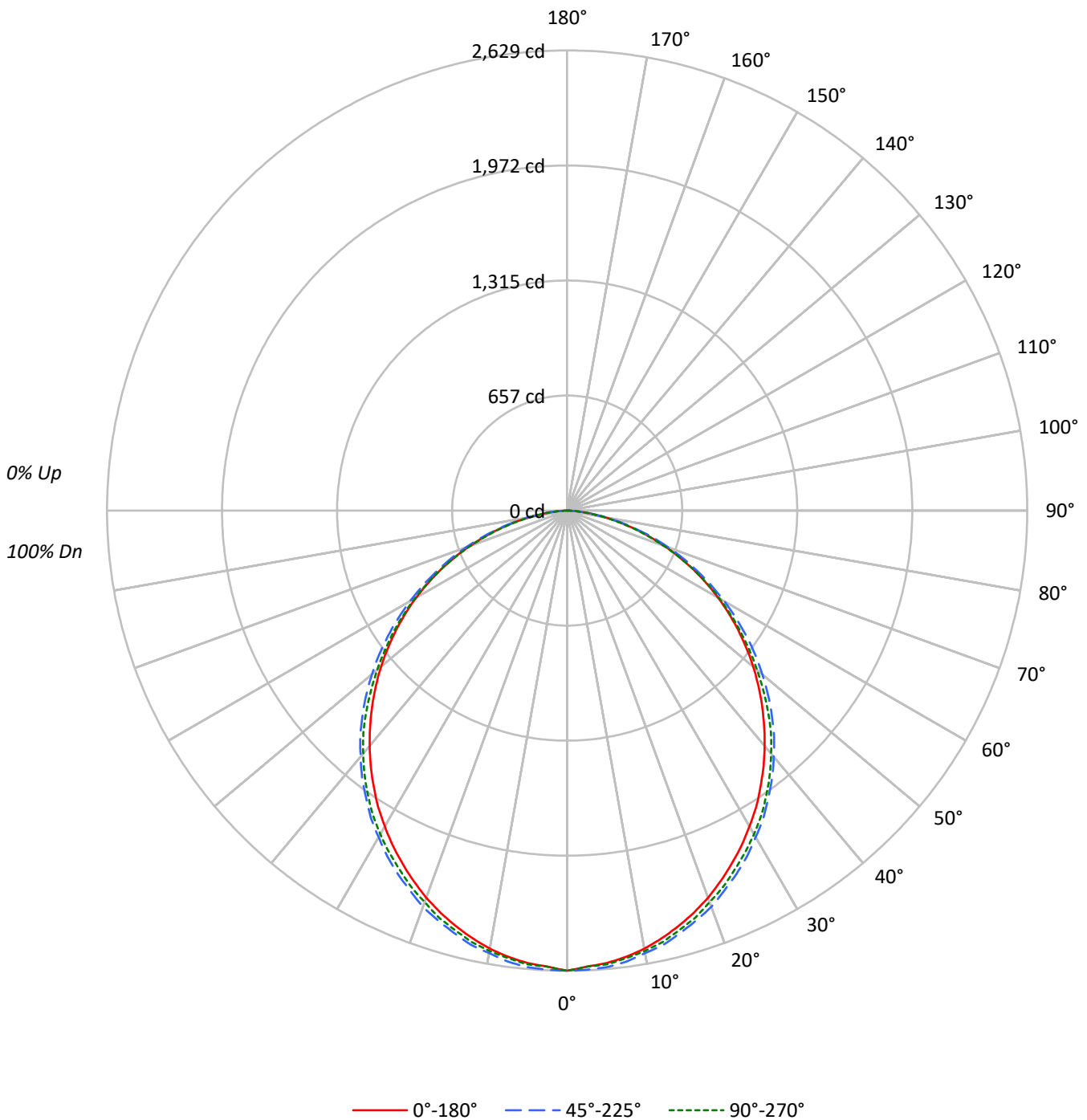
Lumens per Lamp: N/A
Luminaire Lumens: 6910.8 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	7074	7074	7074
5°	7008	7074	7030
10°	6944	7014	6981
15°	6848	6958	6910
20°	6740	6900	6817
25°	6609	6801	6722
30°	6475	6695	6633
35°	6329	6580	6519
40°	6165	6449	6367
45°	5992	6294	6175
50°	5812	6093	5933
55°	5601	5863	5683
60°	5362	5585	5413
65°	5054	5247	5057
70°	4650	4837	4598
75°	4094	4279	4032
80°	3327	3471	3290
85°	2316	2470	2411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.6	3.6
10°-20°	701.5	10.2
20°-30°	1046.3	15.1
30°-40°	1239.9	17.9
40°-50°	1254.6	18.2
50°-60°	1095.7	15.9
60°-70°	800.7	11.6
70°-80°	426.0	6.2
80°-90°	98.5	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°	1995.4	28.9
0°-40°	3235.3	46.8
0°-60°	5585.6	80.8
0°-90°	6910.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6910.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2629	2629	2629	2629	2629	
5°	2594	2599	2619	2625	2603	246
15°	2458	2474	2498	2513	2480	693
25°	2226	2253	2290	2299	2264	1025
35°	1927	1957	2003	2017	1984	1205
45°	1574	1602	1654	1655	1623	1215
55°	1194	1218	1250	1232	1211	1067
65°	794	810	824	808	794	785
75°	394	403	412	397	388	419
85°	75	76	80	81	78	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2628.6	2628.6	2628.6	2628.6	2628.6
2.5°	2608.1	2616.6	2625.3	2629.2	2607.8
5°	2594.4	2599.3	2618.8	2624.8	2602.6
7.5°	2571.9	2579.3	2598.2	2601.0	2579.6
10°	2541.3	2554.4	2567.0	2580.7	2554.7
12.5°	2502.1	2519.9	2541.3	2543.7	2524.0
15°	2458.0	2474.4	2497.7	2512.8	2480.2
17.5°	2408.7	2424.6	2454.7	2457.5	2437.7
20°	2353.7	2373.4	2409.5	2415.8	2380.5
22.5°	2291.2	2317.8	2347.9	2353.9	2327.9
25°	2225.8	2253.1	2290.4	2298.9	2264.1
27.5°	2157.3	2183.6	2225.5	2231.5	2202.2
30°	2083.9	2108.5	2154.6	2164.7	2134.8
32.5°	2009.4	2034.0	2085.0	2093.5	2064.4
35°	1926.7	1956.8	2003.1	2017.1	1984.5
37.5°	1842.3	1871.6	1924.2	1936.8	1901.8
40°	1755.0	1784.0	1835.8	1846.2	1812.5
42.5°	1665.7	1694.7	1750.0	1751.7	1723.7
45°	1574.5	1602.4	1653.9	1655.3	1622.7
47.5°	1481.9	1510.1	1556.1	1550.9	1520.3
50°	1388.3	1415.1	1455.4	1444.9	1417.3
52.5°	1291.3	1317.3	1355.4	1338.4	1312.4
55°	1193.8	1217.9	1249.7	1231.6	1211.3
57.5°	1095.5	1119.9	1144.2	1125.9	1108.4
60°	996.3	1017.7	1037.7	1019.1	1005.7
62.5°	895.6	913.9	931.2	913.4	900.8
65°	793.7	809.8	824.1	807.6	794.2
67.5°	692.3	706.0	719.2	702.2	688.2
70°	591.0	602.8	614.8	597.3	584.4
72.5°	491.1	501.5	512.1	495.2	483.9
75°	393.8	402.9	411.6	396.6	387.8
77.5°	301.0	308.7	314.7	305.1	296.6
80°	214.7	220.5	224.0	220.2	212.3
82.5°	138.0	142.1	144.1	143.8	138.6
85°	75.0	76.4	80.0	80.8	78.1
87.5°	29.0	30.9	31.8	34.2	31.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)