

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: P488624

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3LO-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: P488624
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-LD4-3LO-50-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

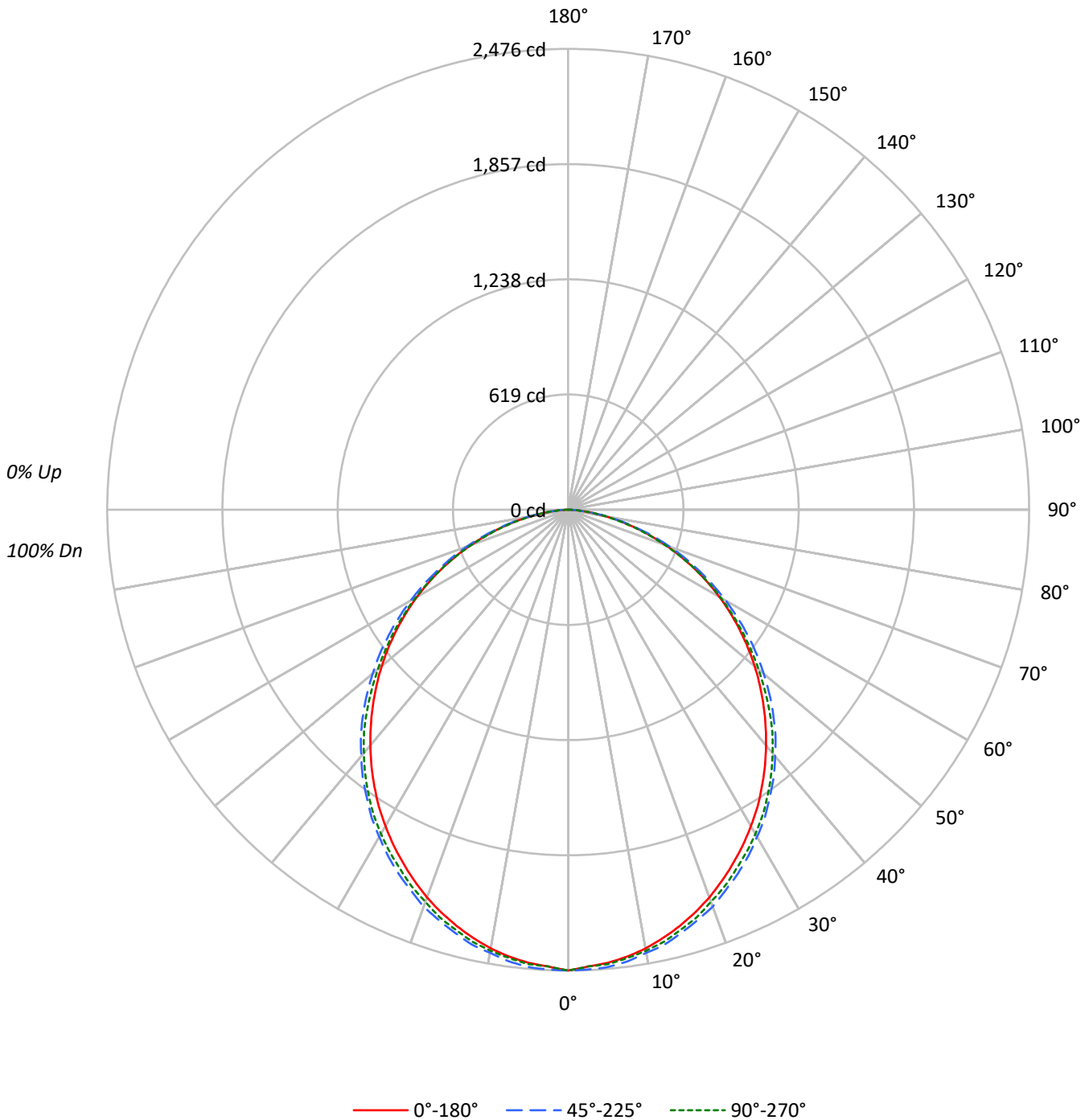
Lumens per Lamp: N/A
Luminaire Lumens: 6509.3 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	6663	6663	6663
5°	6601	6663	6622
10°	6540	6607	6575
15°	6450	6554	6508
20°	6348	6499	6421
25°	6225	6405	6332
30°	6099	6306	6248
35°	5962	6198	6140
40°	5807	6074	5997
45°	5644	5928	5817
50°	5474	5739	5588
55°	5276	5522	5353
60°	5051	5260	5098
65°	4760	4942	4763
70°	4380	4556	4331
75°	3856	4031	3798
80°	3133	3270	3098
85°	2183	2325	2269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	3.6
10°-20°	660.8	10.2
20°-30°	985.5	15.1
30°-40°	1167.9	17.9
40°-50°	1181.7	18.2
50°-60°	1032.0	15.9
60°-70°	754.2	11.6
70°-80°	401.3	6.2
80°-90°	92.7	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°	1879.5	28.9
0°-40°	3047.4	46.8
0°-60°	5261.1	80.8
0°-90°	6509.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6509.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2476	2476	2476	2476	2476	
5°	2444	2448	2467	2472	2451	232
15°	2315	2331	2353	2367	2336	653
25°	2096	2122	2157	2165	2133	966
35°	1815	1843	1887	1900	1869	1135
45°	1483	1509	1558	1559	1528	1144
55°	1124	1147	1177	1160	1141	1005
65°	748	763	776	761	748	740
75°	371	380	388	374	365	394
85°	71	72	75	76	74	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2475.9	2475.9	2475.9	2475.9	2475.9
2.5°	2456.6	2464.6	2472.8	2476.4	2456.3
5°	2443.7	2448.3	2466.6	2472.3	2451.4
7.5°	2422.5	2429.5	2447.3	2449.9	2429.7
10°	2393.6	2406.0	2417.9	2430.8	2406.3
12.5°	2356.7	2373.5	2393.6	2395.9	2377.4
15°	2315.2	2330.7	2352.6	2366.8	2336.1
17.5°	2268.8	2283.7	2312.1	2314.7	2296.1
20°	2216.9	2235.5	2269.5	2275.5	2242.2
22.5°	2158.1	2183.1	2211.5	2217.2	2192.7
25°	2096.4	2122.2	2157.3	2165.3	2132.6
27.5°	2032.0	2056.7	2096.2	2101.9	2074.3
30°	1962.8	1986.0	2029.4	2038.9	2010.8
32.5°	1892.7	1915.9	1963.9	1971.9	1944.5
35°	1814.8	1843.1	1886.7	1899.9	1869.2
37.5°	1735.3	1762.9	1812.4	1824.3	1791.3
40°	1653.0	1680.4	1729.1	1738.9	1707.2
42.5°	1568.9	1596.3	1648.4	1649.9	1623.6
45°	1483.0	1509.3	1557.8	1559.1	1528.4
47.5°	1395.8	1422.4	1465.7	1460.8	1431.9
50°	1307.6	1332.9	1370.8	1361.0	1334.9
52.5°	1216.3	1240.8	1276.6	1260.7	1236.1
55°	1124.5	1147.2	1177.1	1160.0	1141.0
57.5°	1031.8	1054.8	1077.8	1060.5	1044.0
60°	938.5	958.6	977.4	959.9	947.2
62.5°	843.5	860.8	877.1	860.3	848.4
65°	747.6	762.8	776.2	760.7	748.1
67.5°	652.1	665.0	677.4	661.4	648.3
70°	556.7	567.8	579.1	562.6	550.5
72.5°	462.5	472.3	482.4	466.4	455.8
75°	370.9	379.5	387.7	373.5	365.3
77.5°	283.5	290.7	296.4	287.4	279.4
80°	202.2	207.7	211.0	207.4	199.9
82.5°	130.0	133.9	135.7	135.4	130.5
85°	70.7	72.0	75.3	76.1	73.5
87.5°	27.3	29.1	29.9	32.2	29.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)