

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: P488585

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2LO-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: P488585
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-LD4-2LO-35-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

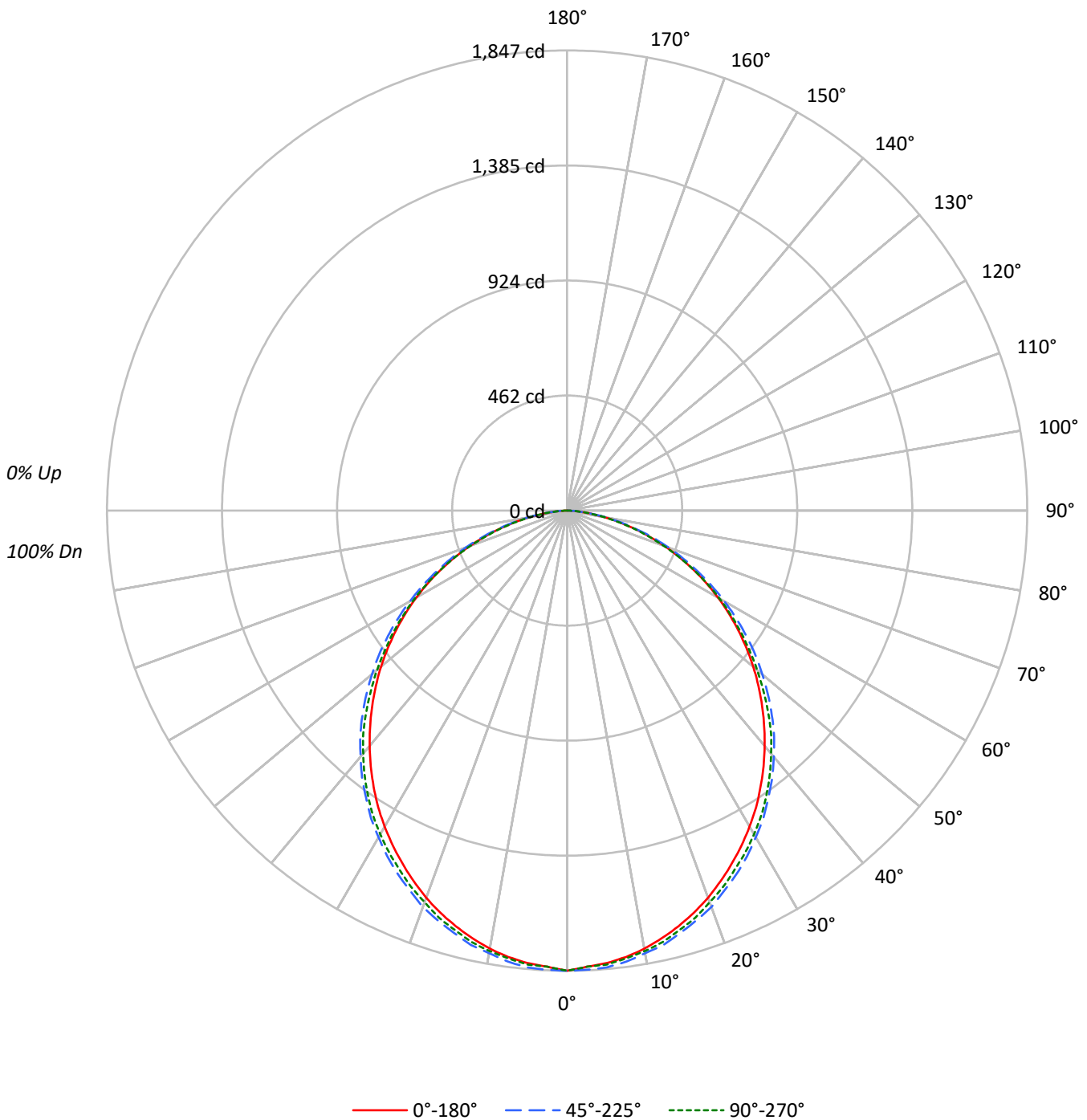
Lumens per Lamp: N/A
Luminaire Lumens: 4856.2 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	4971	4971	4971
5°	4925	4971	4940
10°	4879	4929	4905
15°	4812	4890	4855
20°	4736	4849	4790
25°	4644	4779	4724
30°	4550	4704	4661
35°	4448	4624	4581
40°	4332	4532	4474
45°	4211	4423	4340
50°	4084	4281	4169
55°	3936	4120	3993
60°	3768	3925	3803
65°	3551	3687	3554
70°	3268	3399	3231
75°	2877	3008	2833
80°	2338	2439	2311
85°	1627	1735	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.0	3.6
10°-20°	493.0	10.2
20°-30°	735.2	15.1
30°-40°	871.3	17.9
40°-50°	881.6	18.2
50°-60°	769.9	15.9
60°-70°	562.6	11.6
70°-80°	299.4	6.2
80°-90°	69.2	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°	1402.2	28.9
0°-40°	2273.5	46.8
0°-60°	3925.0	80.8
0°-90°	4856.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4856.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1847	1847	1847	1847	1847	
5°	1823	1826	1840	1844	1829	173
15°	1727	1739	1755	1766	1743	487
25°	1564	1583	1610	1615	1591	721
35°	1354	1375	1408	1417	1394	847
45°	1106	1126	1162	1163	1140	854
55°	839	856	878	865	851	750
65°	558	569	579	568	558	552
75°	277	283	289	279	272	294
85°	53	54	56	57	55	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1847.1	1847.1	1847.1	1847.1	1847.1
2.5°	1832.7	1838.7	1844.8	1847.5	1832.5
5°	1823.1	1826.5	1840.2	1844.4	1828.8
7.5°	1807.3	1812.5	1825.8	1827.7	1812.7
10°	1785.7	1795.0	1803.8	1813.4	1795.2
12.5°	1758.2	1770.7	1785.7	1787.5	1773.6
15°	1727.2	1738.8	1755.1	1765.7	1742.8
17.5°	1692.6	1703.8	1724.9	1726.8	1713.0
20°	1653.9	1667.8	1693.2	1697.6	1672.8
22.5°	1610.0	1628.7	1649.9	1654.1	1635.8
25°	1564.0	1583.3	1609.5	1615.4	1591.0
27.5°	1515.9	1534.4	1563.8	1568.1	1547.5
30°	1464.3	1481.7	1514.0	1521.1	1500.1
32.5°	1412.0	1429.3	1465.1	1471.1	1450.7
35°	1353.9	1375.0	1407.6	1417.4	1394.5
37.5°	1294.6	1315.2	1352.1	1361.0	1336.4
40°	1233.2	1253.6	1290.0	1297.3	1273.6
42.5°	1170.5	1190.9	1229.7	1230.9	1211.3
45°	1106.4	1126.0	1162.2	1163.2	1140.3
47.5°	1041.3	1061.2	1093.5	1089.8	1068.3
50°	975.5	994.4	1022.7	1015.4	995.9
52.5°	907.4	925.7	952.4	940.5	922.2
55°	838.9	855.8	878.1	865.4	851.2
57.5°	769.8	786.9	804.1	791.2	778.8
60°	700.1	715.1	729.2	716.1	706.7
62.5°	629.3	642.2	654.3	641.8	633.0
65°	557.7	569.1	579.1	567.5	558.1
67.5°	486.5	496.1	505.4	493.4	483.6
70°	415.3	423.6	432.0	419.7	410.7
72.5°	345.1	352.4	359.9	347.9	340.1
75°	276.7	283.1	289.3	278.7	272.5
77.5°	211.5	216.9	221.1	214.4	208.4
80°	150.9	154.9	157.4	154.7	149.1
82.5°	97.0	99.9	101.2	101.0	97.4
85°	52.7	53.7	56.2	56.8	54.8
87.5°	20.4	21.7	22.3	24.1	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)