

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: P488537

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1HI-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: P488537
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-LD4-1HI-35-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

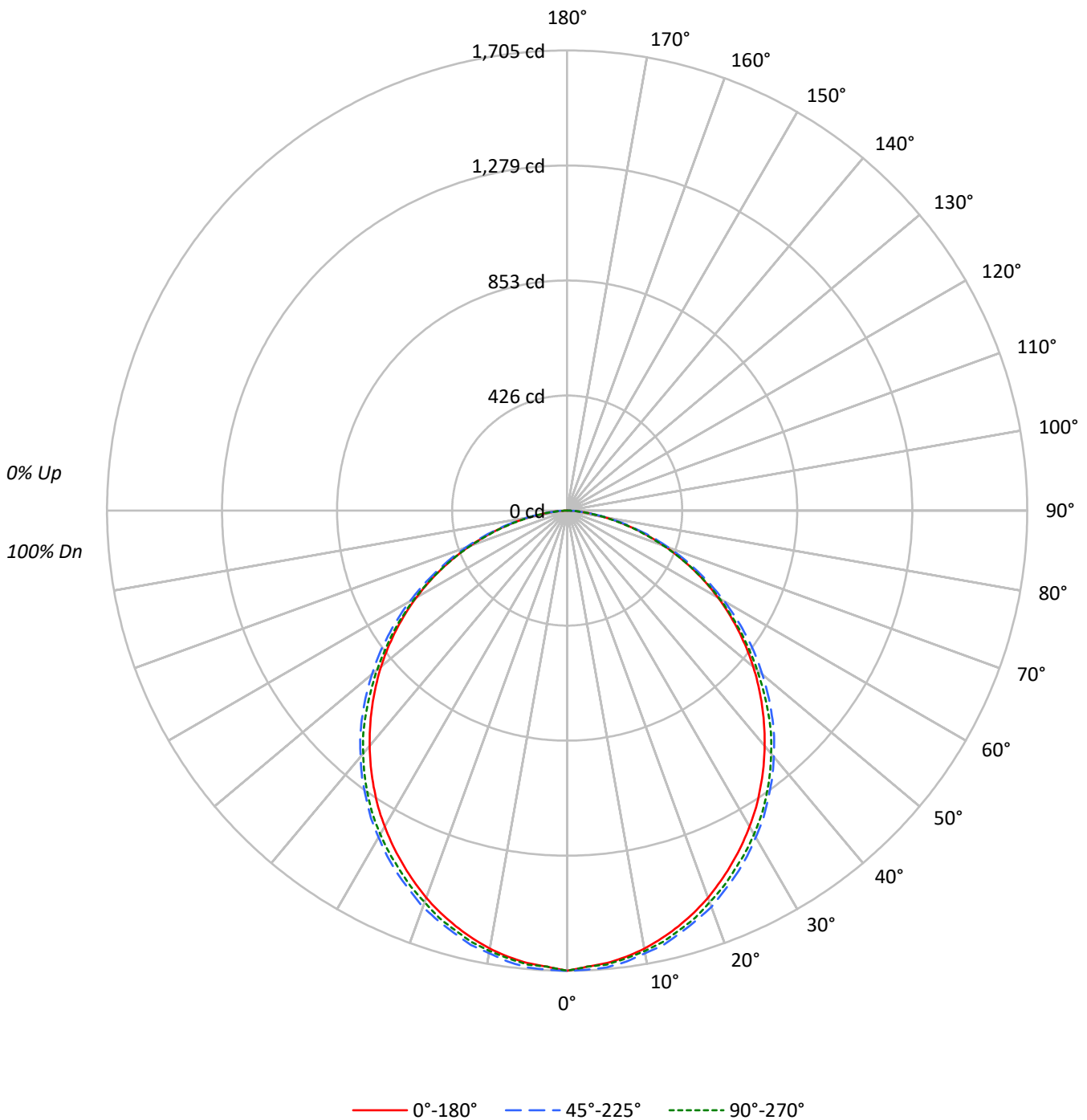
Lumens per Lamp: N/A
Luminaire Lumens: 4482.7 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	4588	4588	4588
5°	4546	4589	4560
10°	4504	4550	4528
15°	4442	4513	4482
20°	4372	4476	4422
25°	4287	4411	4361
30°	4200	4343	4303
35°	4105	4268	4229
40°	3999	4183	4130
45°	3887	4083	4006
50°	3770	3952	3849
55°	3633	3803	3686
60°	3478	3623	3511
65°	3278	3403	3280
70°	3017	3138	2983
75°	2656	2776	2615
80°	2159	2252	2134
85°	1504	1602	1562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	3.6
10°-20°	455.1	10.2
20°-30°	678.7	15.1
30°-40°	804.3	17.9
40°-50°	813.8	18.2
50°-60°	710.7	15.9
60°-70°	519.4	11.6
70°-80°	276.3	6.2
80°-90°	63.9	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°	1294.3	28.9
0°-40°	2098.6	46.8
0°-60°	3623.1	80.8
0°-90°	4482.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4482.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1705	1705	1705	1705	1705	
5°	1683	1686	1699	1703	1688	160
15°	1594	1605	1620	1630	1609	449
25°	1444	1462	1486	1491	1469	665
35°	1250	1269	1299	1308	1287	782
45°	1021	1039	1073	1074	1053	788
55°	774	790	811	799	786	692
65°	515	525	534	524	515	509
75°	256	261	267	257	252	272
85°	49	50	52	52	51	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1705.1	1705.1	1705.1	1705.1	1705.1
2.5°	1691.7	1697.2	1702.9	1705.4	1691.6
5°	1682.9	1686.1	1698.7	1702.6	1688.2
7.5°	1668.3	1673.1	1685.3	1687.1	1673.3
10°	1648.4	1656.9	1665.1	1674.0	1657.1
12.5°	1623.0	1634.5	1648.4	1650.0	1637.2
15°	1594.4	1605.0	1620.1	1629.9	1608.8
17.5°	1562.4	1572.7	1592.3	1594.0	1581.2
20°	1526.7	1539.5	1562.9	1567.0	1544.1
22.5°	1486.2	1503.4	1523.0	1526.9	1510.0
25°	1443.7	1461.5	1485.7	1491.2	1468.6
27.5°	1399.3	1416.4	1443.6	1447.5	1428.5
30°	1351.7	1367.7	1397.6	1404.1	1384.8
32.5°	1303.4	1319.4	1352.4	1357.9	1339.1
35°	1249.7	1269.3	1299.3	1308.4	1287.2
37.5°	1195.0	1214.0	1248.2	1256.3	1233.6
40°	1138.4	1157.2	1190.8	1197.5	1175.7
42.5°	1080.5	1099.3	1135.2	1136.2	1118.1
45°	1021.3	1039.4	1072.8	1073.7	1052.6
47.5°	961.2	979.5	1009.4	1006.0	986.1
50°	900.5	917.9	944.0	937.3	919.3
52.5°	837.6	854.5	879.2	868.2	851.3
55°	774.4	790.0	810.6	798.9	785.7
57.5°	710.6	726.4	742.2	730.3	718.9
60°	646.3	660.1	673.1	661.0	652.3
62.5°	580.9	592.8	604.0	592.5	584.3
65°	514.8	525.3	534.5	523.9	515.2
67.5°	449.1	458.0	466.5	455.5	446.4
70°	383.4	391.0	398.8	387.4	379.1
72.5°	318.5	325.3	332.2	321.2	313.9
75°	255.5	261.3	267.0	257.2	251.5
77.5°	195.2	200.2	204.1	197.9	192.4
80°	139.3	143.0	145.3	142.8	137.7
82.5°	89.5	92.2	93.4	93.3	89.9
85°	48.7	49.6	51.9	52.4	50.6
87.5°	18.8	20.1	20.6	22.2	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)