

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: P488357

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2HI-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: P488357
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-12-2-INS-A12125-LD4-2HI-35-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

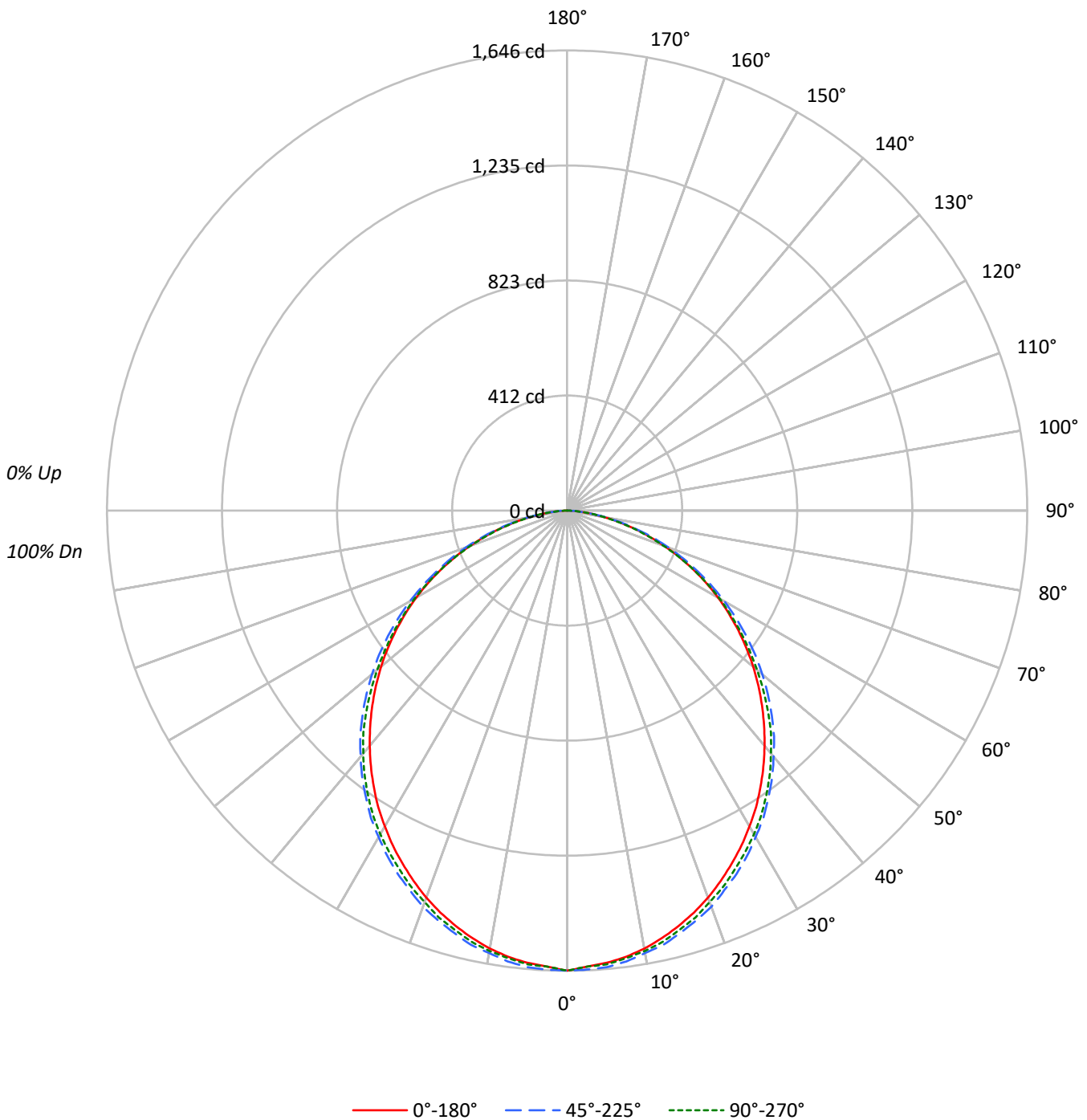
Lumens per Lamp: N/A
Luminaire Lumens: 4326.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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	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°	8856	8856	8856
5°	8774	8856	8802
10°	8694	8782	8740
15°	8573	8712	8650
20°	8438	8639	8534
25°	8274	8514	8416
30°	8107	8382	8305
35°	7924	8238	8161
40°	7718	8073	7971
45°	7502	7880	7731
50°	7276	7628	7428
55°	7012	7340	7115
60°	6713	6992	6776
65°	6327	6570	6332
70°	5822	6057	5756
75°	5126	5359	5049
80°	4166	4345	4119
85°	2902	3094	3020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	3.6
10°-20°	439.1	10.2
20°-30°	655.0	15.1
30°-40°	776.1	17.9
40°-50°	785.3	18.2
50°-60°	685.9	15.9
60°-70°	501.2	11.6
70°-80°	266.7	6.2
80°-90°	61.6	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°	1249.1	28.9
0°-40°	2025.2	46.8
0°-60°	3496.5	80.8
0°-90°	4326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4326.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1646	1646	1646	1646	1646	
5°	1624	1627	1639	1643	1629	154
15°	1539	1549	1564	1573	1552	434
25°	1393	1410	1434	1439	1417	642
35°	1206	1225	1254	1263	1242	754
45°	986	1003	1035	1036	1016	760
55°	747	762	782	771	758	668
65°	497	507	516	506	497	492
75°	246	252	258	248	243	262
85°	47	48	50	51	49	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1645.5	1645.5	1645.5	1645.5	1645.5
2.5°	1632.6	1637.9	1643.4	1645.8	1632.4
5°	1624.0	1627.1	1639.3	1643.1	1629.2
7.5°	1610.0	1614.6	1626.4	1628.1	1614.8
10°	1590.8	1599.0	1606.9	1615.5	1599.2
12.5°	1566.3	1577.4	1590.8	1592.3	1580.0
15°	1538.7	1548.9	1563.5	1572.9	1552.5
17.5°	1507.8	1517.7	1536.6	1538.3	1526.0
20°	1473.3	1485.7	1508.3	1512.2	1490.1
22.5°	1434.2	1450.9	1469.7	1473.5	1457.2
25°	1393.3	1410.4	1433.7	1439.0	1417.3
27.5°	1350.4	1366.9	1393.1	1396.9	1378.5
30°	1304.5	1319.9	1348.7	1355.0	1336.4
32.5°	1257.8	1273.3	1305.2	1310.5	1292.3
35°	1206.1	1224.9	1253.9	1262.6	1242.2
37.5°	1153.3	1171.6	1204.5	1212.4	1190.5
40°	1098.6	1116.7	1149.1	1155.7	1134.6
42.5°	1042.7	1060.9	1095.5	1096.5	1079.0
45°	985.6	1003.1	1035.3	1036.2	1015.8
47.5°	927.6	945.3	974.1	970.9	951.6
50°	869.0	885.8	911.0	904.5	887.2
52.5°	808.3	824.6	848.4	837.8	821.5
55°	747.3	762.4	782.3	771.0	758.3
57.5°	685.7	701.0	716.3	704.8	693.8
60°	623.7	637.1	649.6	637.9	629.5
62.5°	560.6	572.1	582.9	571.7	563.9
65°	496.8	506.9	515.9	505.6	497.2
67.5°	433.4	442.0	450.2	439.6	430.8
70°	370.0	377.3	384.9	373.9	365.8
72.5°	307.4	313.9	320.6	310.0	302.9
75°	246.5	252.2	257.7	248.2	242.8
77.5°	188.4	193.2	197.0	191.0	185.7
80°	134.4	138.0	140.2	137.8	132.9
82.5°	86.4	89.0	90.2	90.0	86.7
85°	47.0	47.8	50.1	50.6	48.9
87.5°	18.2	19.4	19.9	21.4	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)