

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: P488583

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2LO-30-120-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: P488583
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-30-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

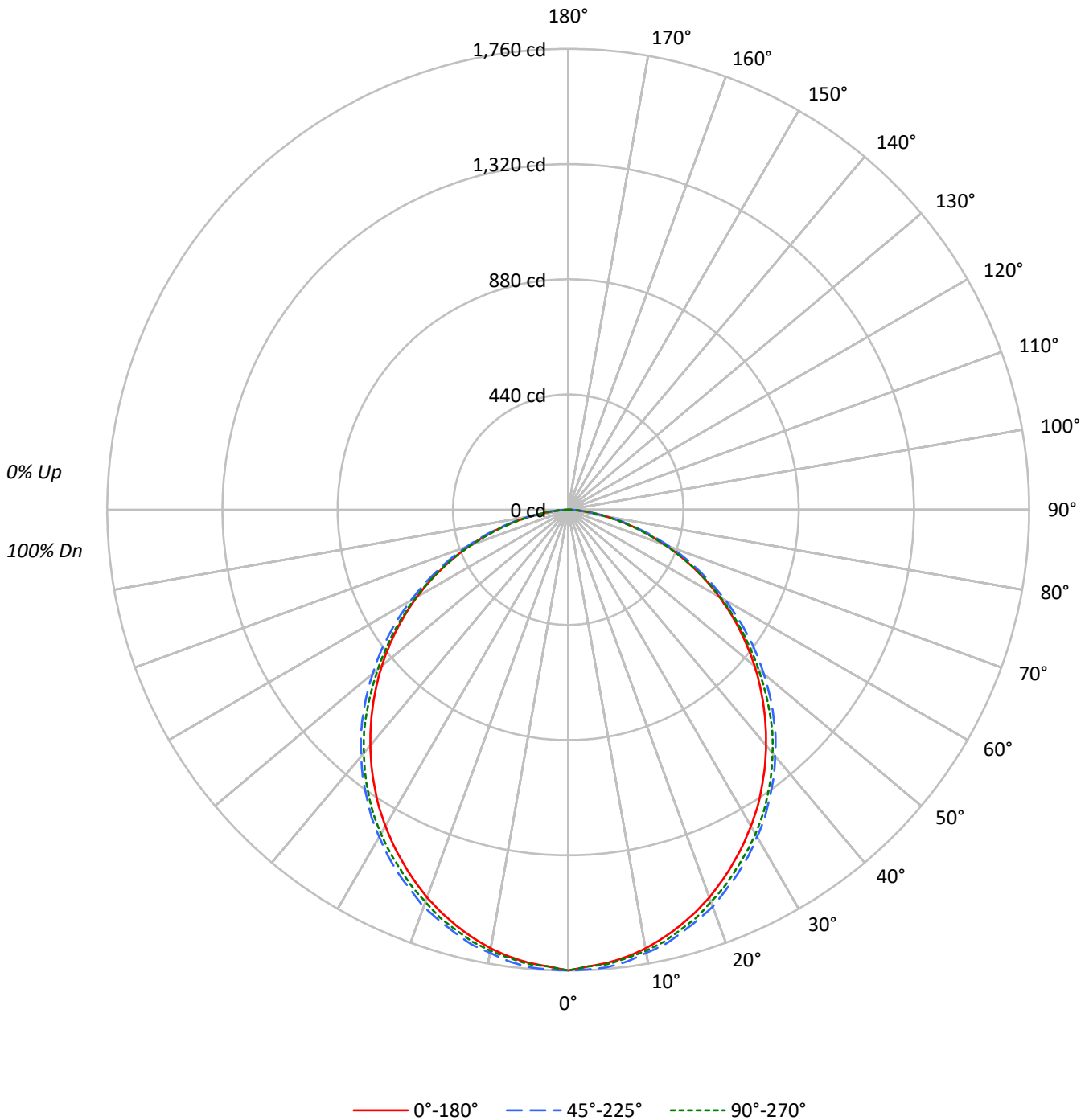
Lumens per Lamp: N/A
Luminaire Lumens: 4626.8 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	4736	4736	4736
5°	4692	4736	4707
10°	4649	4696	4674
15°	4584	4659	4626
20°	4513	4620	4564
25°	4425	4553	4501
30°	4335	4482	4441
35°	4237	4406	4365
40°	4128	4317	4263
45°	4012	4214	4134
50°	3891	4079	3972
55°	3750	3925	3805
60°	3590	3739	3624
65°	3384	3513	3386
70°	3113	3238	3079
75°	2742	2865	2699
80°	2228	2325	2202
85°	1550	1652	1615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	3.6
10°-20°	469.7	10.2
20°-30°	700.5	15.1
30°-40°	830.1	17.9
40°-50°	840.0	18.2
50°-60°	733.6	15.9
60°-70°	536.1	11.6
70°-80°	285.2	6.2
80°-90°	65.9	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°	1335.9	28.9
0°-40°	2166.1	46.8
0°-60°	3739.6	80.8
0°-90°	4626.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4626.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1760	1760	1760	1760	1760	
5°	1737	1740	1753	1757	1742	165
15°	1646	1657	1672	1682	1660	464
25°	1490	1508	1533	1539	1516	687
35°	1290	1310	1341	1350	1329	807
45°	1054	1073	1107	1108	1086	813
55°	799	815	837	825	811	714
65°	531	542	552	541	532	526
75°	264	270	276	266	260	280
85°	50	51	54	54	52	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1759.9	1759.9	1759.9	1759.9	1759.9
2.5°	1746.1	1751.8	1757.7	1760.2	1745.9
5°	1737.0	1740.3	1753.3	1757.3	1742.5
7.5°	1721.9	1726.9	1739.5	1741.4	1727.0
10°	1701.4	1710.2	1718.6	1727.8	1710.4
12.5°	1675.2	1687.1	1701.4	1703.0	1689.8
15°	1645.6	1656.6	1672.2	1682.3	1660.5
17.5°	1612.6	1623.3	1643.4	1645.3	1632.1
20°	1575.8	1589.0	1613.2	1617.4	1593.7
22.5°	1534.0	1551.8	1571.9	1576.0	1558.5
25°	1490.2	1508.5	1533.4	1539.1	1515.8
27.5°	1444.3	1461.9	1490.0	1494.0	1474.4
30°	1395.2	1411.7	1442.5	1449.3	1429.3
32.5°	1345.3	1361.8	1395.9	1401.6	1382.2
35°	1289.9	1310.1	1341.1	1350.4	1328.6
37.5°	1233.4	1253.1	1288.3	1296.7	1273.2
40°	1175.0	1194.4	1229.0	1236.0	1213.5
42.5°	1115.2	1134.6	1171.7	1172.8	1154.1
45°	1054.1	1072.8	1107.3	1108.2	1086.4
47.5°	992.2	1011.0	1041.8	1038.4	1017.8
50°	929.4	947.4	974.4	967.4	948.9
52.5°	864.5	882.0	907.4	896.1	878.7
55°	799.3	815.4	836.7	824.6	811.0
57.5°	733.4	749.8	766.1	753.8	742.0
60°	667.1	681.4	694.7	682.3	673.3
62.5°	599.6	611.9	623.4	611.5	603.1
65°	531.4	542.2	551.7	540.7	531.7
67.5°	463.5	472.7	481.5	470.1	460.8
70°	395.7	403.6	411.6	399.9	391.3
72.5°	328.8	335.7	342.9	331.5	324.0
75°	263.7	269.7	275.6	265.5	259.6
77.5°	201.5	206.6	210.7	204.3	198.6
80°	143.8	147.6	150.0	147.4	142.1
82.5°	92.4	95.2	96.4	96.3	92.8
85°	50.2	51.2	53.5	54.1	52.3
87.5°	19.4	20.7	21.3	22.9	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)