

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: P488926

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3HI-20-120-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: P488926
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-24-2-INS-A12125-LD4-3HI-20-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

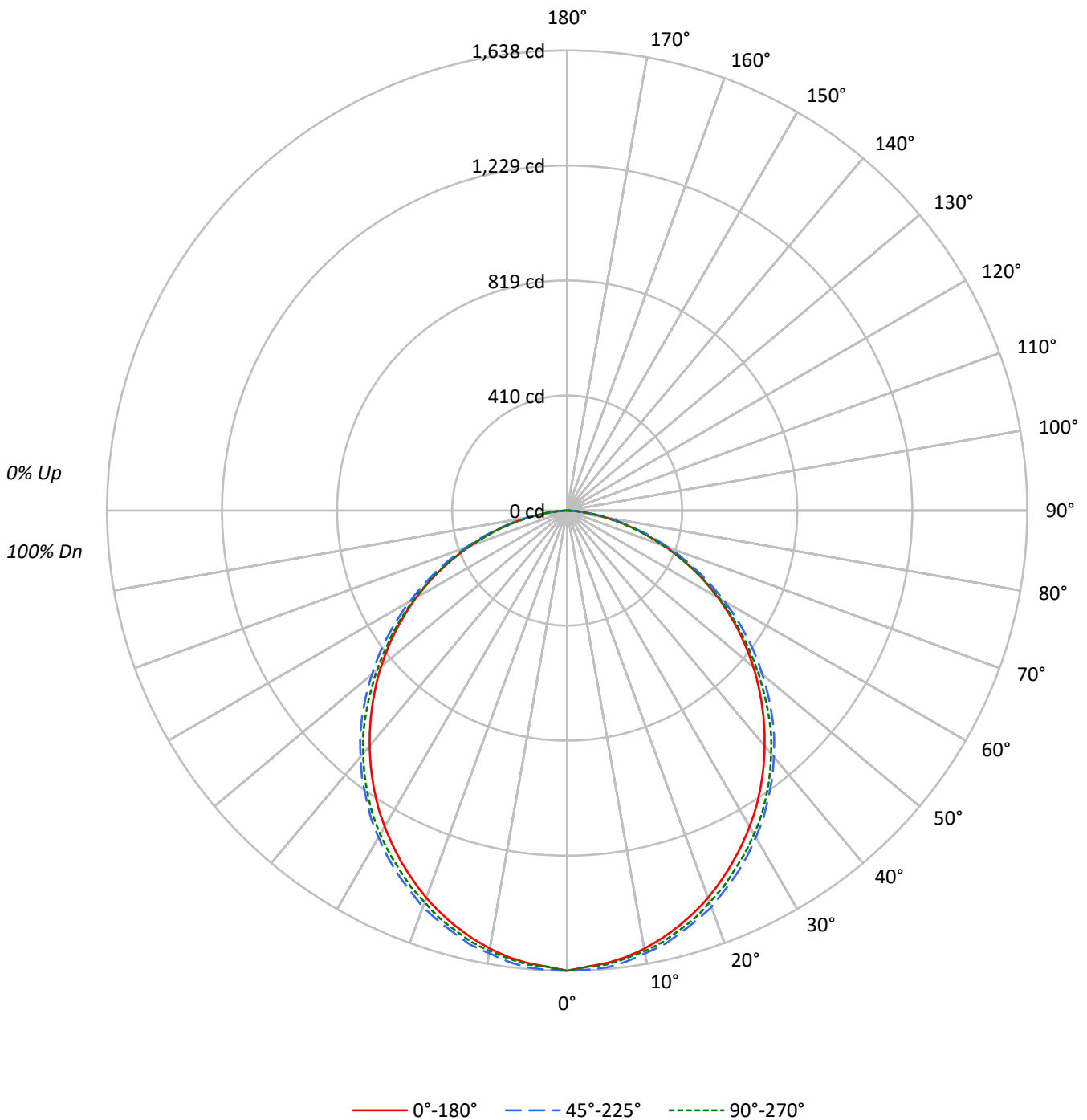
Lumens per Lamp: N/A
Luminaire Lumens: 4307.0 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (A_{in}): 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°	4408	4408	4408
5°	4368	4409	4381
10°	4328	4371	4350
15°	4268	4337	4306
20°	4201	4300	4249
25°	4119	4238	4189
30°	4035	4172	4134
35°	3945	4101	4063
40°	3842	4019	3968
45°	3734	3923	3849
50°	3622	3797	3698
55°	3491	3654	3542
60°	3342	3481	3373
65°	3149	3270	3152
70°	2898	3015	2865
75°	2551	2667	2513
80°	2073	2163	2050
85°	1445	1538	1501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	3.6
10°-20°	437.2	10.2
20°-30°	652.1	15.1
30°-40°	772.7	17.9
40°-50°	781.9	18.2
50°-60°	682.9	15.9
60°-70°	499.0	11.6
70°-80°	265.5	6.2
80°-90°	61.4	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°	1243.6	28.9
0°-40°	2016.3	46.8
0°-60°	3481.1	80.8
0°-90°	4307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1638	1638	1638	1638	1638	
5°	1617	1620	1632	1636	1622	153
15°	1532	1542	1557	1566	1546	432
25°	1387	1404	1427	1433	1411	639
35°	1201	1220	1248	1257	1237	751
45°	981	999	1031	1032	1011	757
55°	744	759	779	768	755	665
65°	495	505	514	503	495	489
75°	245	251	256	247	242	261
85°	47	48	50	50	49	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1638.2	1638.2	1638.2	1638.2	1638.2
2.5°	1625.4	1630.7	1636.2	1638.6	1625.3
5°	1616.9	1620.0	1632.1	1635.8	1622.0
7.5°	1602.9	1607.5	1619.3	1621.0	1607.7
10°	1583.8	1592.0	1599.8	1608.4	1592.1
12.5°	1559.4	1570.5	1583.8	1585.3	1573.0
15°	1531.9	1542.1	1556.6	1566.0	1545.7
17.5°	1501.2	1511.1	1529.8	1531.6	1519.3
20°	1466.9	1479.2	1501.7	1505.6	1483.6
22.5°	1427.9	1444.5	1463.3	1467.0	1450.8
25°	1387.2	1404.2	1427.4	1432.7	1411.0
27.5°	1344.5	1360.9	1387.0	1390.7	1372.5
30°	1298.7	1314.1	1342.8	1349.1	1330.5
32.5°	1252.3	1267.7	1299.4	1304.7	1286.6
35°	1200.8	1219.5	1248.4	1257.1	1236.8
37.5°	1148.2	1166.5	1199.2	1207.1	1185.2
40°	1093.7	1111.8	1144.1	1150.6	1129.6
42.5°	1038.1	1056.2	1090.7	1091.7	1074.3
45°	981.3	998.7	1030.8	1031.6	1011.3
47.5°	923.6	941.2	969.8	966.6	947.5
50°	865.2	881.9	907.0	900.5	883.3
52.5°	804.8	821.0	844.7	834.1	817.9
55°	744.0	759.0	778.8	767.6	754.9
57.5°	682.7	697.9	713.1	701.7	690.8
60°	621.0	634.3	646.7	635.1	626.8
62.5°	558.1	569.6	580.3	569.2	561.4
65°	494.6	504.7	513.6	503.3	495.0
67.5°	431.5	440.0	448.2	437.6	428.9
70°	368.3	375.7	383.2	372.3	364.2
72.5°	306.0	312.5	319.2	308.6	301.6
75°	245.4	251.1	256.5	247.2	241.7
77.5°	187.6	192.4	196.1	190.1	184.9
80°	133.8	137.4	139.6	137.2	132.3
82.5°	86.0	88.6	89.8	89.6	86.4
85°	46.8	47.6	49.8	50.4	48.6
87.5°	18.1	19.3	19.8	21.3	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)