

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: P488594

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2STD-30-120-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: P488594
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-LD4-2STD-30-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

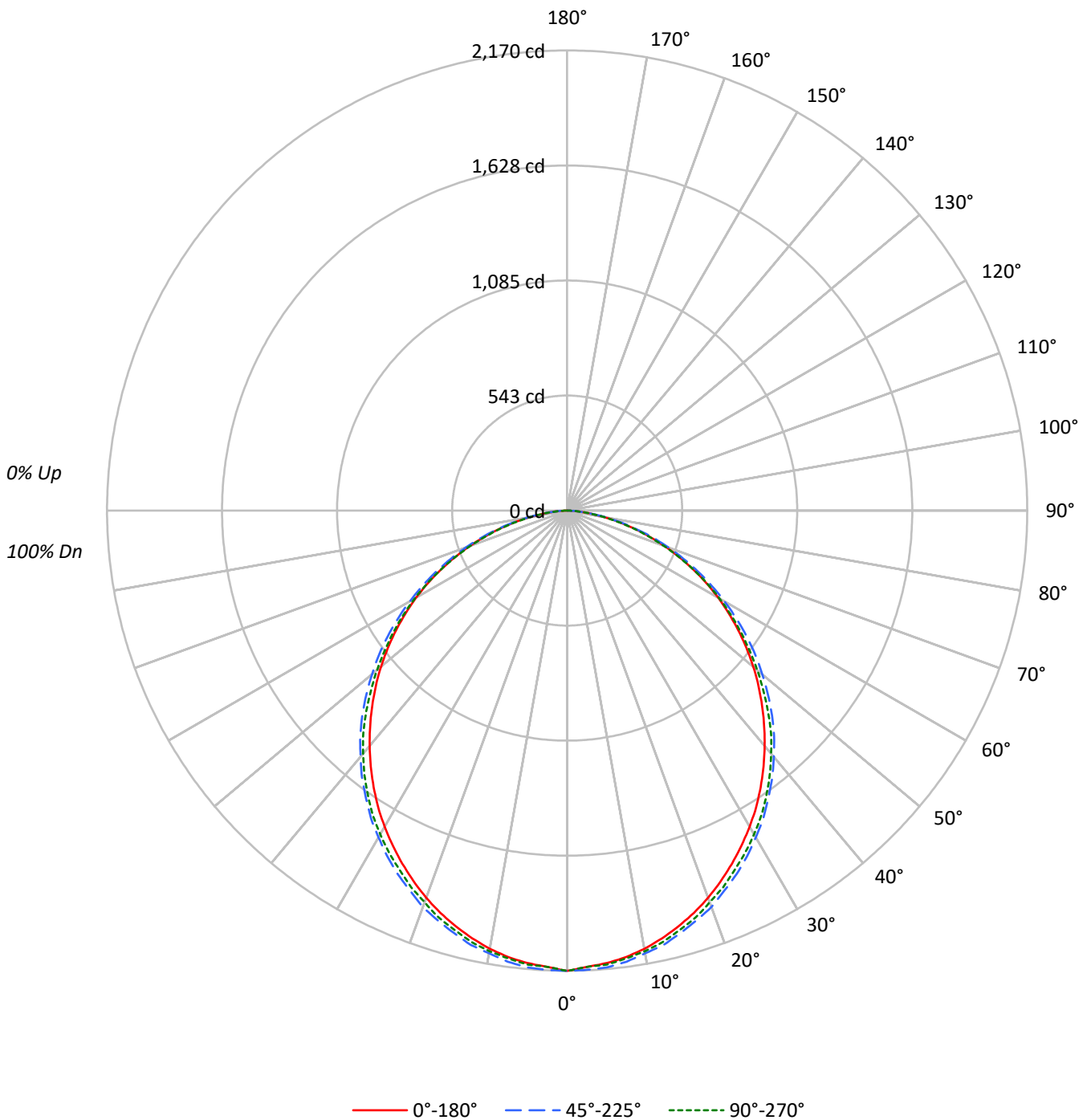
Lumens per Lamp: N/A
Luminaire Lumens: 5706.4 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	5841	5841	5841
5°	5787	5841	5805
10°	5734	5792	5764
15°	5654	5746	5705
20°	5566	5698	5629
25°	5457	5615	5551
30°	5347	5528	5478
35°	5226	5434	5383
40°	5090	5325	5257
45°	4948	5197	5099
50°	4799	5031	4899
55°	4625	4841	4693
60°	4428	4612	4469
65°	4173	4333	4176
70°	3840	3995	3797
75°	3381	3534	3329
80°	2748	2867	2717
85°	1914	2038	1991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.4	3.6
10°-20°	579.3	10.2
20°-30°	864.0	15.1
30°-40°	1023.8	17.9
40°-50°	1035.9	18.2
50°-60°	904.8	15.9
60°-70°	661.1	11.6
70°-80°	351.8	6.2
80°-90°	81.3	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°	1647.7	28.9
0°-40°	2671.5	46.8
0°-60°	4612.2	80.8
0°-90°	5706.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5706.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2170	2170	2170	2170	2170	
5°	2142	2146	2162	2167	2149	203
15°	2030	2043	2062	2075	2048	572
25°	1838	1860	1891	1898	1870	847
35°	1591	1616	1654	1666	1639	995
45°	1300	1323	1366	1367	1340	1003
55°	986	1006	1032	1017	1000	881
65°	655	669	680	667	656	649
75°	325	333	340	328	320	346
85°	62	63	66	67	64	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2170.5	2170.5	2170.5	2170.5	2170.5
2.5°	2153.6	2160.6	2167.8	2171.0	2153.3
5°	2142.2	2146.3	2162.4	2167.3	2149.0
7.5°	2123.7	2129.8	2145.4	2147.7	2130.0
10°	2098.4	2109.2	2119.6	2130.9	2109.5
12.5°	2066.0	2080.7	2098.4	2100.4	2084.1
15°	2029.6	2043.2	2062.4	2074.9	2047.9
17.5°	1988.9	2002.0	2026.9	2029.2	2012.9
20°	1943.5	1959.7	1989.6	1994.8	1965.6
22.5°	1891.9	1913.8	1938.7	1943.7	1922.2
25°	1837.9	1860.5	1891.2	1898.2	1869.5
27.5°	1781.3	1803.0	1837.6	1842.6	1818.4
30°	1720.7	1741.1	1779.1	1787.4	1762.8
32.5°	1659.2	1679.6	1721.6	1728.6	1704.7
35°	1590.9	1615.8	1654.0	1665.5	1638.6
37.5°	1521.3	1545.5	1588.9	1599.3	1570.3
40°	1449.1	1473.1	1515.8	1524.4	1496.6
42.5°	1375.4	1399.4	1445.0	1446.4	1423.3
45°	1300.1	1323.2	1365.7	1366.8	1339.9
47.5°	1223.7	1246.9	1284.9	1280.6	1255.3
50°	1146.3	1168.5	1201.7	1193.1	1170.3
52.5°	1066.3	1087.7	1119.2	1105.2	1083.7
55°	985.8	1005.7	1031.9	1017.0	1000.2
57.5°	904.6	924.7	944.8	929.7	915.2
60°	822.7	840.3	856.9	841.5	830.4
62.5°	739.5	754.6	768.9	754.2	743.8
65°	655.4	668.7	680.5	666.9	655.8
67.5°	571.7	583.0	593.8	579.8	568.3
70°	488.0	497.7	507.7	493.2	482.6
72.5°	405.5	414.1	422.9	408.9	399.6
75°	325.2	332.7	339.9	327.5	320.2
77.5°	248.5	254.9	259.8	251.9	244.9
80°	177.3	182.0	185.0	181.8	175.3
82.5°	114.0	117.4	119.0	118.7	114.4
85°	62.0	63.1	66.0	66.7	64.5
87.5°	24.0	25.6	26.2	28.3	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)