

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: P489453

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2LO-50-120-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: P489453
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-24-4-INS-A12125-LD4-2LO-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

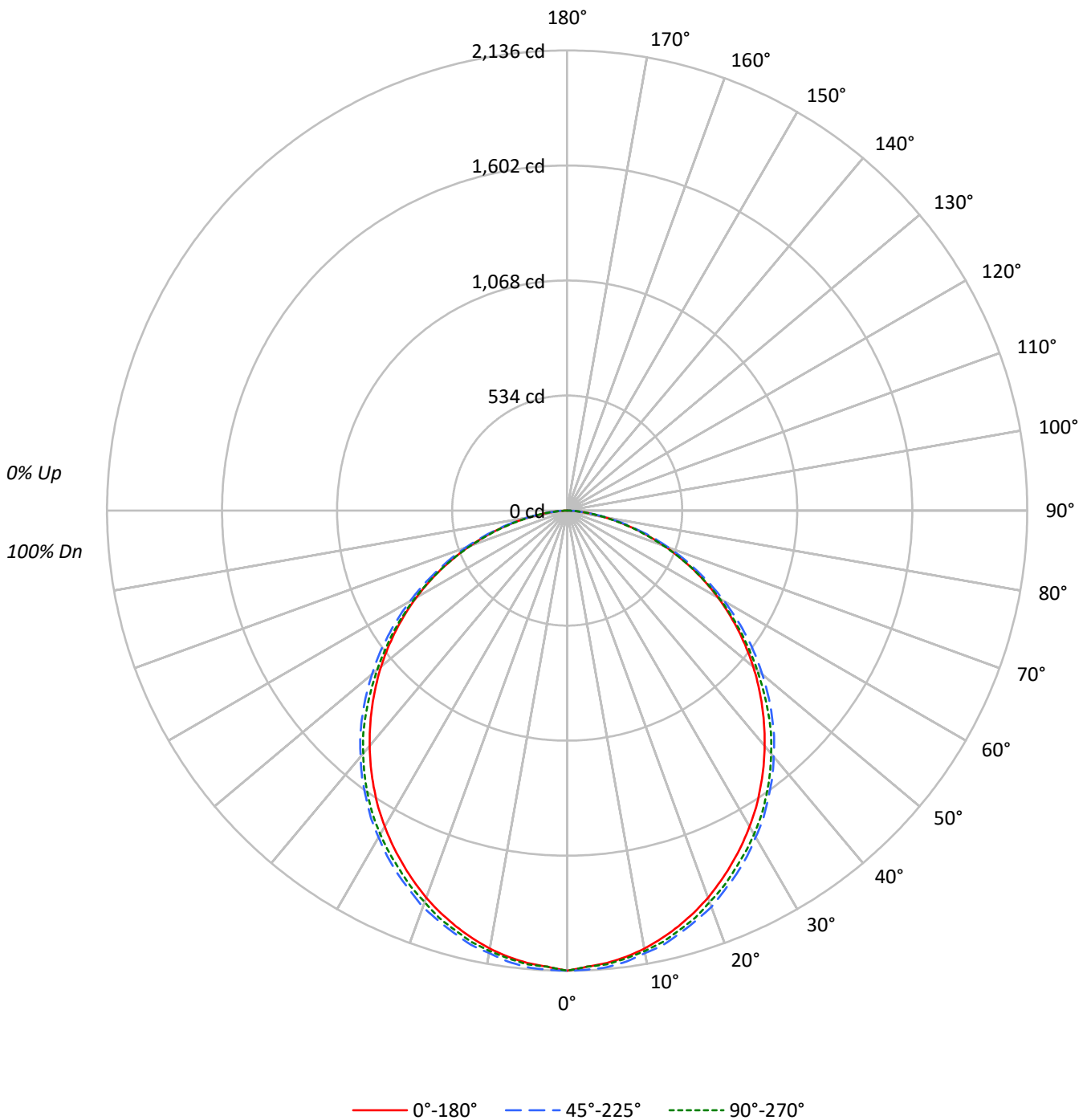
Lumens per Lamp: N/A
Luminaire Lumens: 5615.5 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2874	2874	2874
5°	2847	2874	2856
10°	2821	2850	2836
15°	2782	2827	2807
20°	2738	2803	2770
25°	2685	2763	2731
30°	2631	2720	2695
35°	2572	2674	2649
40°	2505	2620	2587
45°	2434	2557	2509
50°	2361	2475	2411
55°	2276	2382	2309
60°	2179	2269	2199
65°	2053	2132	2055
70°	1889	1965	1868
75°	1664	1739	1638
80°	1352	1410	1337
85°	942	1003	979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.2	3.6
10°-20°	570.0	10.2
20°-30°	850.2	15.1
30°-40°	1007.5	17.9
40°-50°	1019.4	18.2
50°-60°	890.3	15.9
60°-70°	650.6	11.6
70°-80°	346.2	6.2
80°-90°	80.0	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°	1621.4	28.9
0°-40°	2628.9	46.8
0°-60°	4538.7	80.8
0°-90°	5615.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5615.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2136	2136	2136	2136	2136	
5°	2108	2112	2128	2133	2115	200
15°	1997	2011	2030	2042	2015	563
25°	1809	1831	1861	1868	1840	833
35°	1566	1590	1628	1639	1612	979
45°	1279	1302	1344	1345	1318	987
55°	970	990	1015	1001	984	867
65°	645	658	670	656	645	638
75°	320	327	334	322	315	340
85°	61	62	65	66	63	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2135.9	2135.9	2135.9	2135.9	2135.9
2.5°	2119.2	2126.1	2133.3	2136.4	2119.0
5°	2108.1	2112.1	2127.9	2132.8	2114.8
7.5°	2089.9	2095.9	2111.2	2113.5	2096.1
10°	2064.9	2075.6	2085.9	2097.0	2075.9
12.5°	2033.1	2047.6	2064.9	2066.9	2050.9
15°	1997.3	2010.6	2029.6	2041.8	2015.3
17.5°	1957.2	1970.1	1994.6	1996.8	1980.8
20°	1912.5	1928.5	1957.9	1963.0	1934.3
22.5°	1861.8	1883.4	1907.8	1912.7	1891.6
25°	1808.6	1830.8	1861.1	1868.0	1839.7
27.5°	1752.9	1774.3	1808.4	1813.3	1789.4
30°	1693.3	1713.3	1750.7	1759.0	1734.7
32.5°	1632.8	1652.8	1694.2	1701.1	1677.5
35°	1565.6	1590.0	1627.7	1639.0	1612.5
37.5°	1497.0	1520.8	1563.6	1573.8	1545.3
40°	1426.0	1449.6	1491.7	1500.1	1472.8
42.5°	1353.5	1377.1	1422.0	1423.4	1400.7
45°	1279.4	1302.1	1343.9	1345.0	1318.5
47.5°	1204.2	1227.1	1264.5	1260.2	1235.3
50°	1128.1	1149.9	1182.6	1174.1	1151.6
52.5°	1049.3	1070.4	1101.3	1087.6	1066.4
55°	970.1	989.6	1015.4	1000.8	984.3
57.5°	890.2	910.0	929.8	914.9	900.6
60°	809.6	827.0	843.2	828.1	817.2
62.5°	727.7	742.6	756.6	742.2	731.9
65°	644.9	658.0	669.6	656.3	645.4
67.5°	562.6	573.7	584.4	570.6	559.2
70°	480.2	489.8	499.6	485.4	474.9
72.5°	399.0	407.5	416.1	402.4	393.2
75°	320.0	327.4	334.5	322.2	315.1
77.5°	244.6	250.8	255.7	247.9	241.0
80°	174.5	179.1	182.0	178.9	172.5
82.5°	112.2	115.5	117.1	116.8	112.6
85°	61.0	62.1	65.0	65.6	63.4
87.5°	23.6	25.1	25.8	27.8	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)