

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: P489455

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2STD-20-120-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: P489455
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-LD4-2STD-20-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

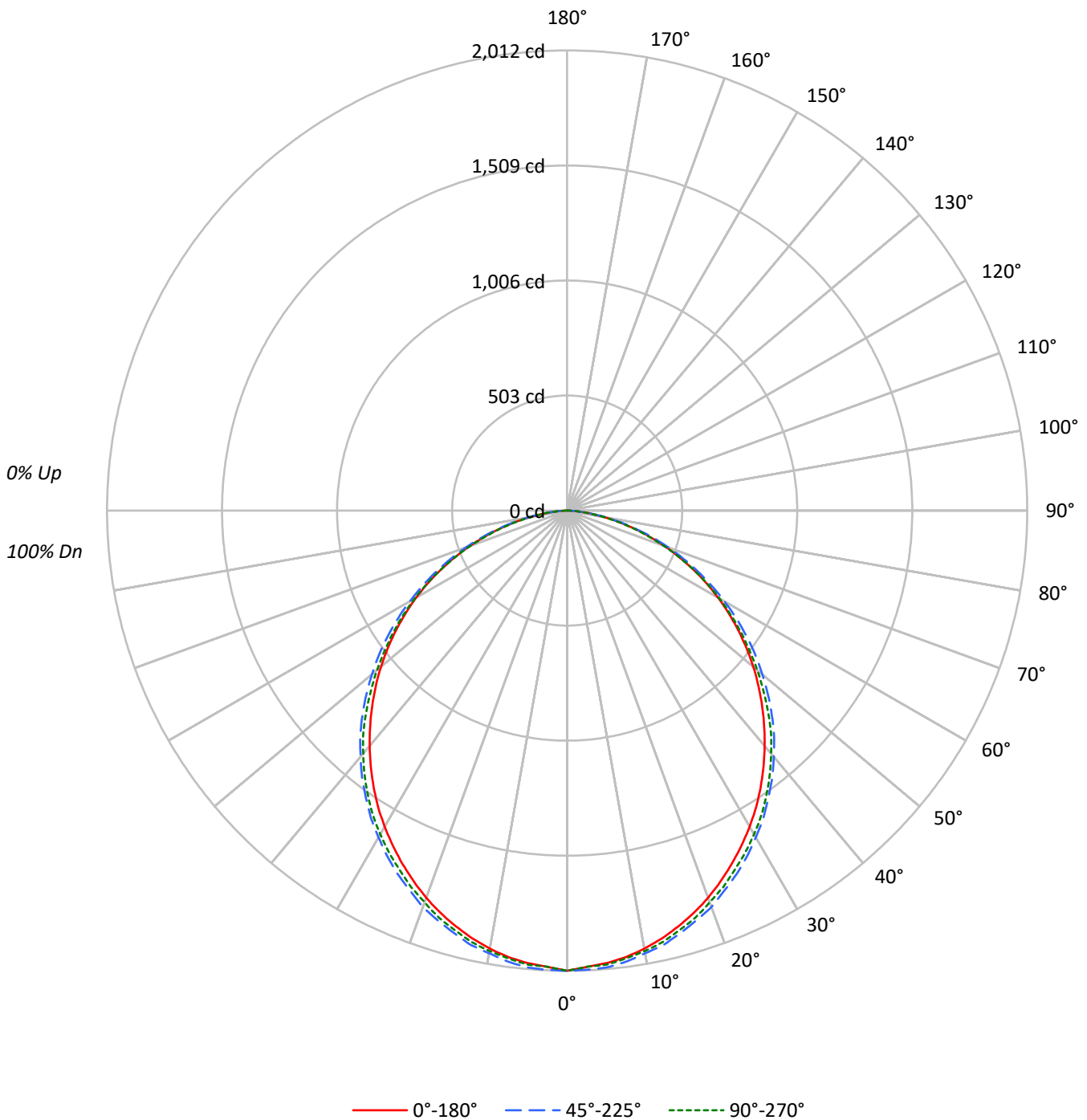
Lumens per Lamp: N/A
Luminaire Lumens: 5290.5 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2708	2708	2708
5°	2682	2708	2691
10°	2658	2685	2672
15°	2621	2663	2645
20°	2580	2641	2609
25°	2530	2603	2573
30°	2479	2563	2539
35°	2423	2519	2495
40°	2360	2468	2437
45°	2293	2409	2364
50°	2225	2332	2271
55°	2144	2244	2175
60°	2052	2138	2072
65°	1934	2009	1936
70°	1780	1852	1760
75°	1567	1638	1543
80°	1274	1329	1259
85°	886	945	923



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.5	3.6
10°-20°	537.1	10.2
20°-30°	801.0	15.1
30°-40°	949.2	17.9
40°-50°	960.4	18.2
50°-60°	838.8	15.9
60°-70°	613.0	11.6
70°-80°	326.2	6.2
80°-90°	75.4	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°	1527.6	28.9
0°-40°	2476.8	46.8
0°-60°	4276.0	80.8
0°-90°	5290.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5290.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2012	2012	2012	2012	2012	
5°	1986	1990	2005	2009	1992	188
15°	1882	1894	1912	1924	1899	530
25°	1704	1725	1753	1760	1733	785
35°	1475	1498	1534	1544	1519	922
45°	1205	1227	1266	1267	1242	930
55°	914	932	957	943	927	817
65°	608	620	631	618	608	601
75°	302	308	315	304	297	321
85°	57	58	61	62	60	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2012.3	2012.3	2012.3	2012.3	2012.3
2.5°	1996.6	2003.1	2009.8	2012.7	1996.4
5°	1986.1	1989.9	2004.8	2009.4	1992.4
7.5°	1968.9	1974.6	1989.0	1991.1	1974.8
10°	1945.4	1955.5	1965.1	1975.6	1955.7
12.5°	1915.5	1929.1	1945.4	1947.3	1932.2
15°	1881.7	1894.3	1912.1	1923.6	1898.7
17.5°	1844.0	1856.1	1879.2	1881.3	1866.2
20°	1801.8	1816.9	1844.6	1849.4	1822.4
22.5°	1754.0	1774.4	1797.4	1802.0	1782.1
25°	1703.9	1724.9	1753.4	1759.9	1733.3
27.5°	1651.5	1671.6	1703.7	1708.3	1685.9
30°	1595.3	1614.2	1649.4	1657.2	1634.3
32.5°	1538.3	1557.1	1596.1	1602.6	1580.4
35°	1475.0	1498.0	1533.5	1544.1	1519.2
37.5°	1410.4	1432.8	1473.1	1482.7	1455.9
40°	1343.5	1365.7	1405.4	1413.3	1387.5
42.5°	1275.2	1297.4	1339.7	1341.0	1319.6
45°	1205.3	1226.7	1266.1	1267.2	1242.2
47.5°	1134.5	1156.1	1191.3	1187.3	1163.8
50°	1062.8	1083.3	1114.1	1106.2	1085.0
52.5°	988.5	1008.5	1037.6	1024.6	1004.7
55°	913.9	932.4	956.7	942.8	927.3
57.5°	838.6	857.3	876.0	861.9	848.5
60°	762.7	779.1	794.4	780.1	769.9
62.5°	685.6	699.6	712.8	699.2	689.6
65°	607.6	620.0	630.9	618.3	608.0
67.5°	530.0	540.5	550.6	537.6	526.9
70°	452.4	461.5	470.7	457.3	447.4
72.5°	375.9	383.9	392.1	379.1	370.5
75°	301.5	308.4	315.1	303.6	296.9
77.5°	230.4	236.3	240.9	233.6	227.1
80°	164.4	168.8	171.5	168.6	162.5
82.5°	105.7	108.8	110.3	110.1	106.1
85°	57.4	58.5	61.2	61.8	59.8
87.5°	22.2	23.7	24.3	26.2	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)