

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: P488987

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4STD-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: P488987
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-LD4-4STD-20-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

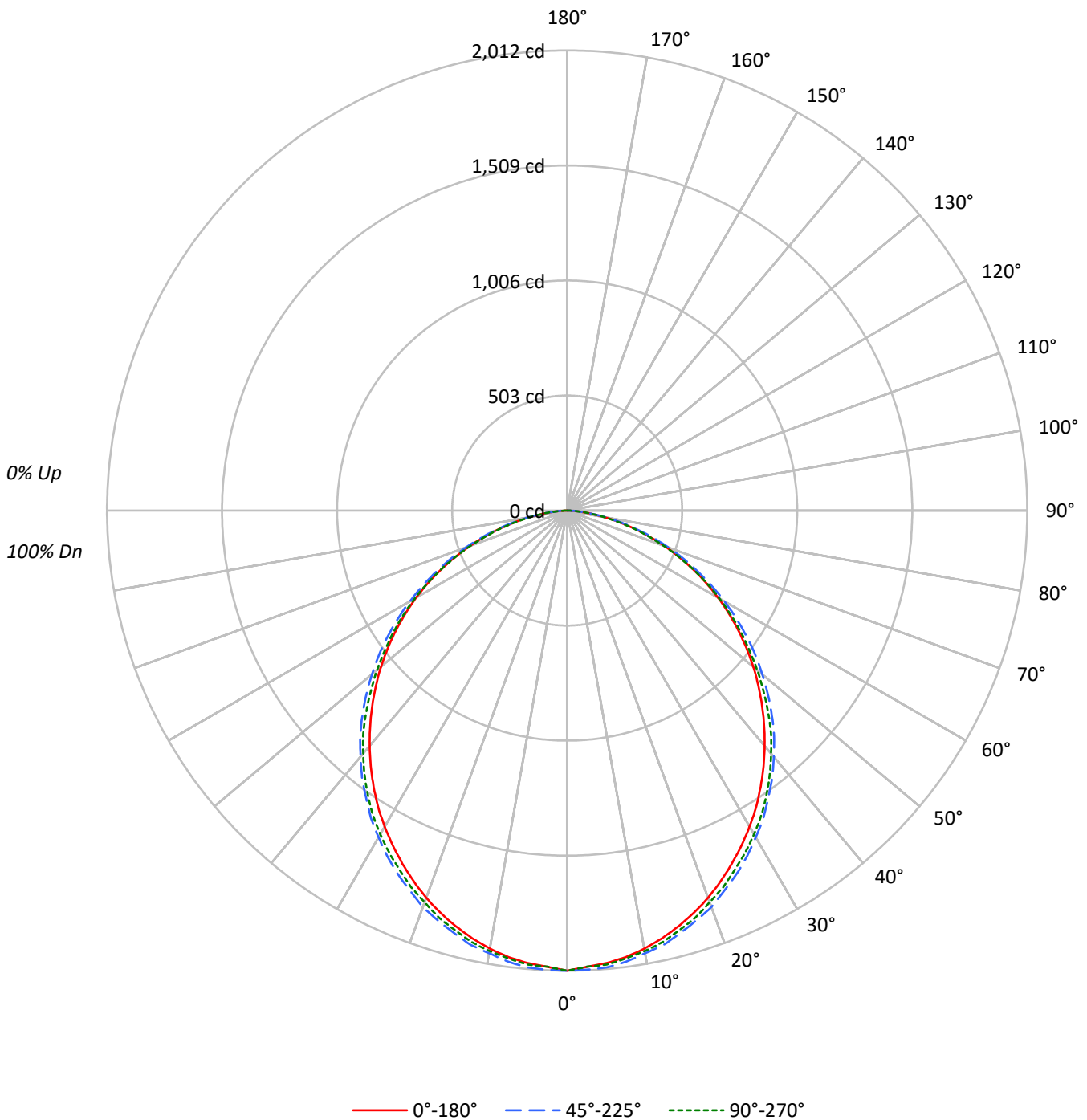
Lumens per Lamp: N/A
Luminaire Lumens: 5290.3 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	5415	5415	5415
5°	5365	5415	5382
10°	5316	5370	5344
15°	5242	5327	5289
20°	5160	5282	5218
25°	5059	5206	5146
30°	4957	5125	5078
35°	4845	5037	4990
40°	4719	4937	4874
45°	4587	4818	4727
50°	4449	4664	4542
55°	4288	4488	4351
60°	4105	4275	4143
65°	3869	4017	3871
70°	3559	3703	3520
75°	3135	3276	3087
80°	2548	2658	2518
85°	1772	1890	1846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.5	3.6
10°-20°	537.0	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°	612.9	11.6
70°-80°	326.1	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°	1527.5	28.9
0°-40°	2476.7	46.8
0°-60°	4275.9	80.8
0°-90°	5290.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5290.3	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	1533	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°	2012.2	2012.2	2012.2	2012.2	2012.2
2.5°	1996.5	2003.0	2009.7	2012.7	1996.3
5°	1986.0	1989.8	2004.7	2009.3	1992.3
7.5°	1968.8	1974.5	1989.0	1991.1	1974.7
10°	1945.4	1955.4	1965.1	1975.6	1955.6
12.5°	1915.4	1929.0	1945.4	1947.2	1932.2
15°	1881.6	1894.2	1912.0	1923.6	1898.6
17.5°	1843.9	1856.1	1879.1	1881.2	1866.1
20°	1801.8	1816.8	1844.5	1849.3	1822.3
22.5°	1754.0	1774.3	1797.3	1802.0	1782.0
25°	1703.8	1724.8	1753.3	1759.8	1733.2
27.5°	1651.4	1671.6	1703.6	1708.2	1685.8
30°	1595.2	1614.1	1649.3	1657.1	1634.2
32.5°	1538.2	1557.1	1596.1	1602.6	1580.4
35°	1474.9	1498.0	1533.4	1544.1	1519.1
37.5°	1410.3	1432.8	1473.0	1482.7	1455.8
40°	1343.5	1365.7	1405.3	1413.3	1387.5
42.5°	1275.1	1297.3	1339.7	1340.9	1319.6
45°	1205.3	1226.7	1266.1	1267.1	1242.2
47.5°	1134.4	1156.0	1191.2	1187.3	1163.8
50°	1062.7	1083.3	1114.1	1106.1	1085.0
52.5°	988.5	1008.4	1037.6	1024.6	1004.7
55°	913.9	932.3	956.6	942.8	927.3
57.5°	838.6	857.3	875.9	861.9	848.5
60°	762.7	779.1	794.4	780.1	769.8
62.5°	685.6	699.6	712.8	699.2	689.5
65°	607.6	619.9	630.8	618.3	608.0
67.5°	530.0	540.5	550.5	537.5	526.9
70°	452.4	461.4	470.7	457.3	447.4
72.5°	375.9	383.9	392.0	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)