

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: P488592

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2STD-27-120-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: P488592
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-27-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

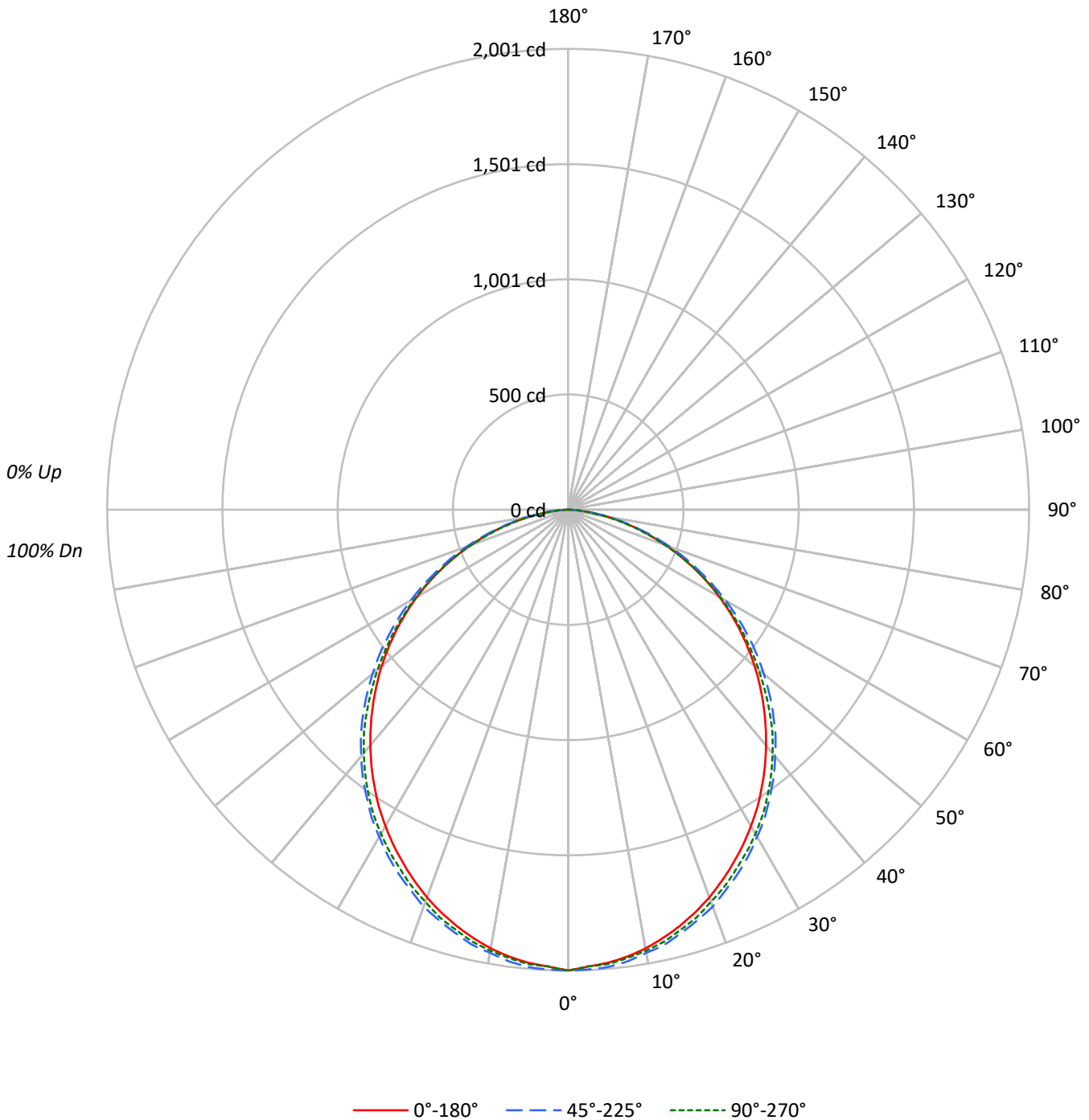
Lumens per Lamp: N/A
Luminaire Lumens: 5260.6 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	5384	5384	5384
5°	5335	5385	5351
10°	5286	5339	5314
15°	5213	5297	5260
20°	5131	5253	5189
25°	5031	5177	5117
30°	4929	5096	5050
35°	4818	5009	4962
40°	4693	4909	4847
45°	4561	4791	4701
50°	4424	4638	4517
55°	4263	4463	4326
60°	4082	4251	4120
65°	3847	3994	3850
70°	3540	3682	3500
75°	3117	3257	3069
80°	2532	2642	2504
85°	1763	1880	1834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.4	3.6
10°-20°	534.0	10.2
20°-30°	796.5	15.1
30°-40°	943.8	17.9
40°-50°	955.0	18.2
50°-60°	834.1	15.9
60°-70°	609.5	11.6
70°-80°	324.3	6.2
80°-90°	75.0	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°	1518.9	28.9
0°-40°	2462.8	46.8
0°-60°	4251.8	80.8
0°-90°	5260.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5260.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2001	2001	2001	2001	2001	
5°	1975	1979	1993	1998	1981	187
15°	1871	1884	1901	1913	1888	527
25°	1694	1715	1744	1750	1724	781
35°	1467	1490	1525	1535	1511	917
45°	1198	1220	1259	1260	1235	925
55°	909	927	951	938	922	812
65°	604	616	627	615	605	598
75°	300	307	313	302	295	319
85°	57	58	61	62	59	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2000.9	2000.9	2000.9	2000.9	2000.9
2.5°	1985.3	1991.8	1998.4	2001.4	1985.1
5°	1974.9	1978.6	1993.4	1998.0	1981.1
7.5°	1957.8	1963.4	1977.8	1979.9	1963.6
10°	1934.4	1944.4	1954.0	1964.5	1944.7
12.5°	1904.6	1918.2	1934.4	1936.3	1921.3
15°	1871.1	1883.6	1901.3	1912.8	1888.0
17.5°	1833.5	1845.6	1868.6	1870.6	1855.6
20°	1791.6	1806.6	1834.2	1839.0	1812.1
22.5°	1744.1	1764.3	1787.3	1791.8	1772.0
25°	1694.3	1715.1	1743.5	1749.9	1723.5
27.5°	1642.2	1662.2	1694.1	1698.7	1676.3
30°	1586.3	1605.1	1640.1	1647.8	1625.1
32.5°	1529.6	1548.3	1587.1	1593.6	1571.5
35°	1466.6	1489.6	1524.8	1535.4	1510.6
37.5°	1402.4	1424.7	1464.7	1474.3	1447.7
40°	1335.9	1358.0	1397.4	1405.3	1379.7
42.5°	1267.9	1290.0	1332.2	1333.4	1312.1
45°	1198.5	1219.8	1259.0	1260.0	1235.2
47.5°	1128.1	1149.5	1184.6	1180.6	1157.2
50°	1056.8	1077.2	1107.8	1099.9	1078.9
52.5°	983.0	1002.8	1031.7	1018.8	999.0
55°	908.7	927.1	951.3	937.5	922.1
57.5°	833.9	852.5	871.0	857.0	843.7
60°	758.4	774.7	789.9	775.7	765.5
62.5°	681.7	695.7	708.8	695.3	685.7
65°	604.2	616.5	627.3	614.8	604.6
67.5°	527.0	537.4	547.5	534.5	523.9
70°	449.9	458.9	468.0	454.7	444.9
72.5°	373.8	381.7	389.8	376.9	368.4
75°	299.8	306.7	313.3	301.9	295.2
77.5°	229.1	235.0	239.5	232.2	225.8
80°	163.4	167.8	170.5	167.6	161.6
82.5°	105.1	108.2	109.7	109.4	105.5
85°	57.1	58.2	60.9	61.5	59.4
87.5°	22.1	23.6	24.2	26.1	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)