

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: P488567

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2HI-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: P488567
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-LD4-2HI-20-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

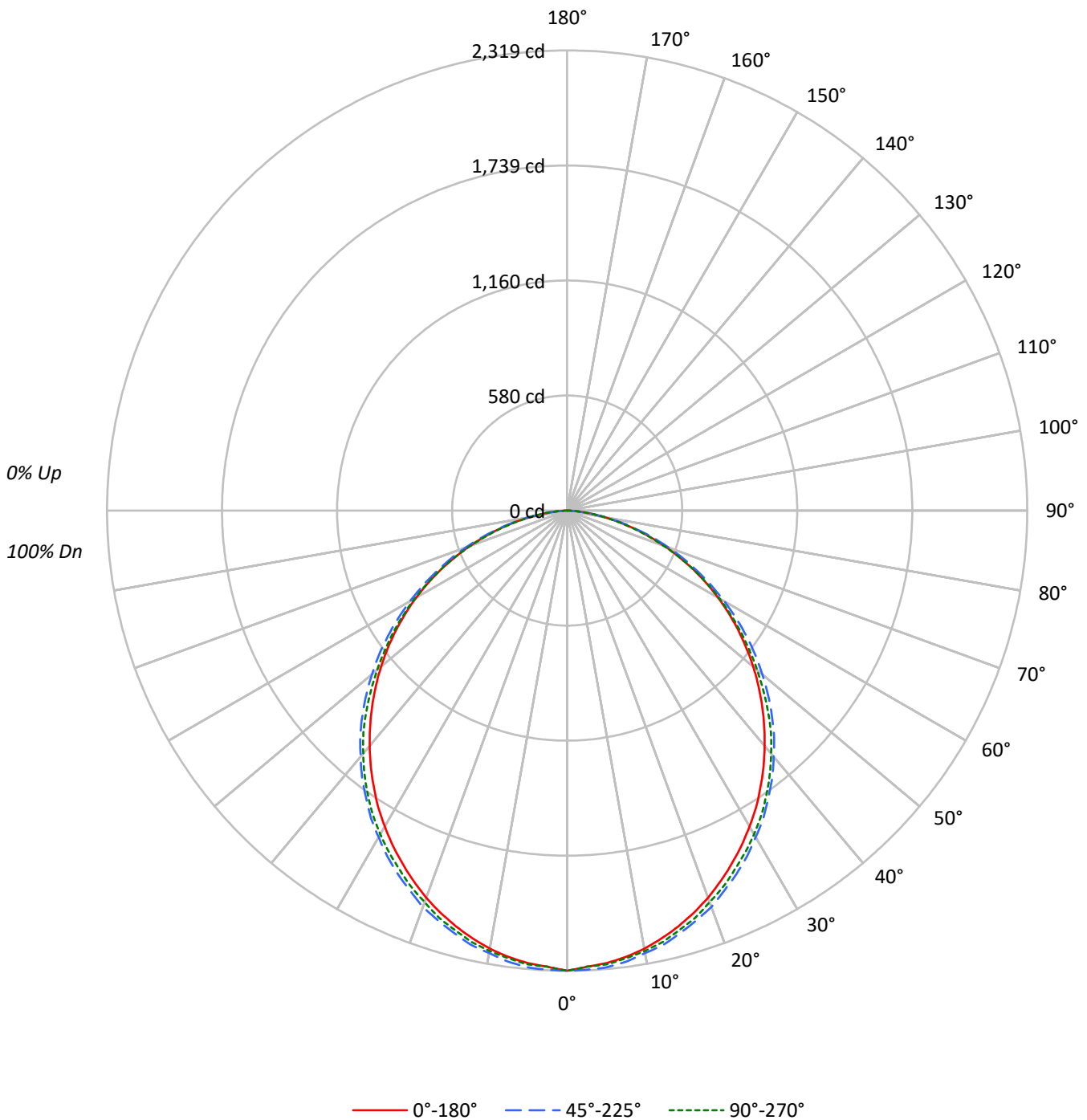
Lumens per Lamp: N/A
Luminaire Lumens: 6096.4 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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

TEST NUMBER: P488567

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-2HI-20-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P488567

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-2HI-20-120-EDD

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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6240	6240	6240
5°	6182	6240	6202
10°	6126	6188	6158
15°	6041	6138	6095
20°	5946	6087	6014
25°	5830	5999	5930
30°	5712	5906	5852
35°	5583	5805	5751
40°	5439	5689	5617
45°	5286	5552	5448
50°	5127	5375	5234
55°	4941	5172	5013
60°	4730	4927	4774
65°	4458	4629	4461
70°	4102	4268	4057
75°	3612	3775	3557
80°	2935	3062	2901
85°	2044	2177	2127



TEST NUMBER: P488567

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-2HI-20-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.4	3.6
10°-20°	618.9	10.2
20°-30°	923.0	15.1
30°-40°	1093.8	17.9
40°-50°	1106.7	18.2
50°-60°	966.6	15.9
60°-70°	706.3	11.6
70°-80°	375.8	6.2
80°-90°	86.9	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°	1760.3	28.9
0°-40°	2854.1	46.8
0°-60°	4927.4	80.8
0°-90°	6096.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6096.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2319	2319	2319	2319	2319	
5°	2289	2293	2310	2316	2296	217
15°	2168	2183	2203	2217	2188	611
25°	1964	1988	2020	2028	1997	905
35°	1700	1726	1767	1779	1751	1063
45°	1389	1414	1459	1460	1432	1072
55°	1053	1074	1102	1086	1069	941
65°	700	714	727	712	701	693
75°	347	355	363	350	342	369
85°	66	67	70	71	69	84
90°	0	0	0	0	0	



TEST NUMBER: P488567

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-2HI-20-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2318.9	2318.9	2318.9	2318.9	2318.9
2.5°	2300.7	2308.2	2316.0	2319.3	2300.5
5°	2288.7	2293.0	2310.2	2315.5	2295.9
7.5°	2268.8	2275.4	2292.0	2294.5	2275.6
10°	2241.8	2253.4	2264.5	2276.6	2253.6
12.5°	2207.2	2222.9	2241.8	2244.0	2226.6
15°	2168.3	2182.8	2203.4	2216.7	2187.9
17.5°	2124.9	2138.9	2165.4	2167.9	2150.5
20°	2076.3	2093.7	2125.6	2131.1	2100.0
22.5°	2021.2	2044.6	2071.2	2076.5	2053.6
25°	1963.5	1987.6	2020.5	2028.0	1997.3
27.5°	1903.1	1926.3	1963.2	1968.5	1942.7
30°	1838.3	1860.1	1900.6	1909.6	1883.3
32.5°	1772.6	1794.3	1839.3	1846.8	1821.2
35°	1699.6	1726.2	1767.0	1779.4	1750.6
37.5°	1625.2	1651.1	1697.5	1708.6	1677.7
40°	1548.2	1573.8	1619.4	1628.6	1598.9
42.5°	1469.4	1495.0	1543.8	1545.3	1520.6
45°	1388.9	1413.6	1459.0	1460.2	1431.5
47.5°	1307.3	1332.2	1372.8	1368.2	1341.1
50°	1224.7	1248.3	1283.8	1274.7	1250.3
52.5°	1139.1	1162.1	1195.7	1180.7	1157.7
55°	1053.1	1074.4	1102.4	1086.5	1068.6
57.5°	966.4	987.9	1009.4	993.2	977.7
60°	878.9	897.8	915.4	899.0	887.1
62.5°	790.0	806.2	821.4	805.7	794.6
65°	700.1	714.4	727.0	712.5	700.6
67.5°	610.8	622.8	634.4	619.5	607.1
70°	521.4	531.8	542.4	526.9	515.6
72.5°	433.2	442.4	451.8	436.8	426.9
75°	347.4	355.4	363.1	349.8	342.1
77.5°	265.5	272.3	277.6	269.1	261.7
80°	189.4	194.5	197.6	194.2	187.2
82.5°	121.8	125.4	127.1	126.8	122.2
85°	66.2	67.4	70.5	71.3	68.9
87.5°	25.6	27.3	28.0	30.2	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)