

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: P488616

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3LO-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: P488616  
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-LD4-3LO-27-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

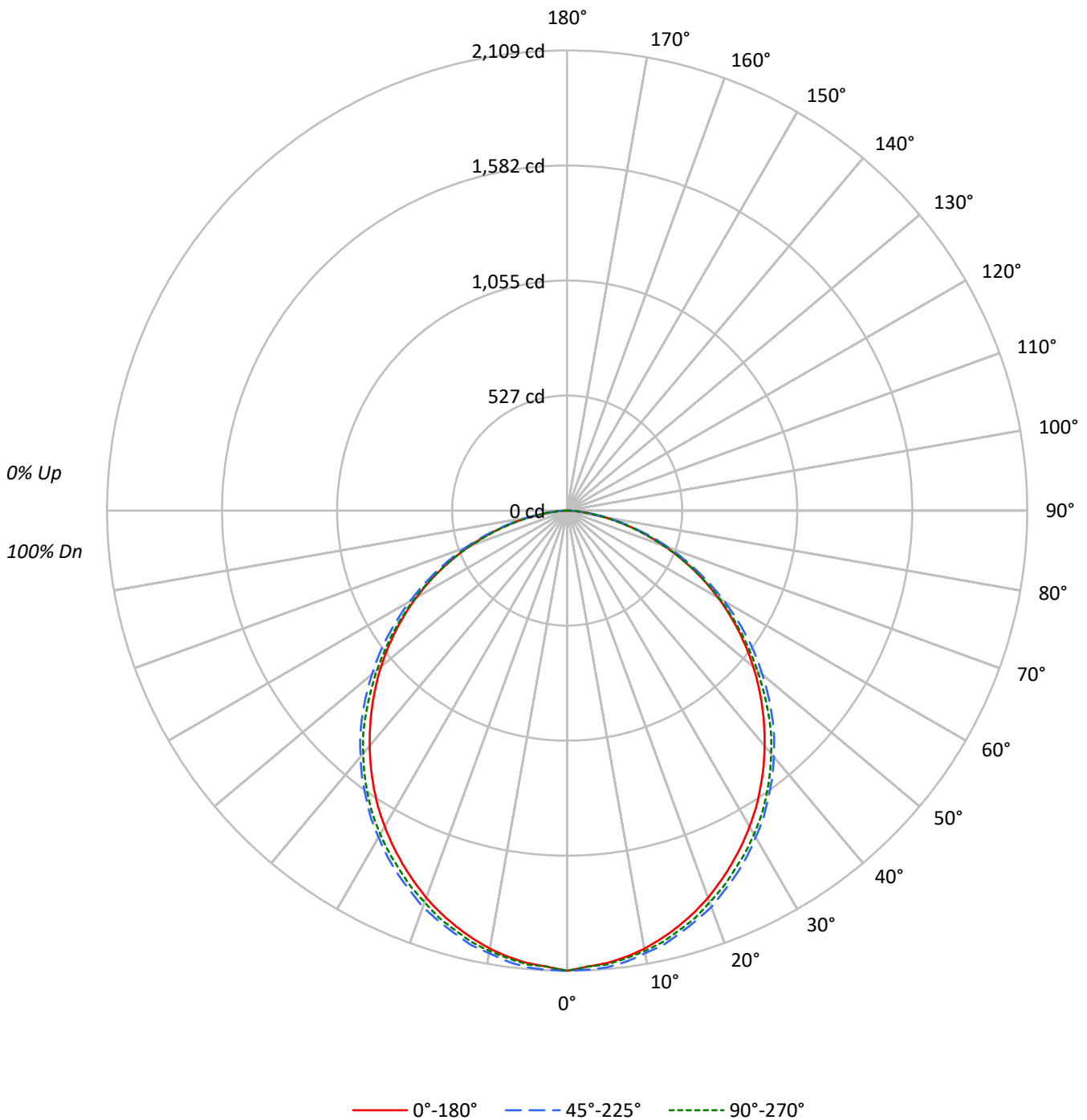
Lumens per Lamp: N/A  
Luminaire Lumens: 5545.0 lumens  
Efficiency: N/A  
Efficacy: 79.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 70.2  
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°	5676	5676	5676
5°	5623	5676	5641
10°	5572	5628	5601
15°	5494	5583	5544
20°	5408	5536	5470
25°	5303	5456	5394
30°	5195	5372	5322
35°	5078	5280	5231
40°	4946	5174	5109
45°	4808	5050	4955
50°	4663	4888	4761
55°	4494	4704	4560
60°	4302	4481	4343
65°	4055	4210	4058
70°	3731	3881	3689
75°	3285	3434	3236
80°	2670	2786	2639
85°	1859	1982	1933



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.6	3.6
10°-20°	562.9	10.2
20°-30°	839.5	15.1
30°-40°	994.8	17.9
40°-50°	1006.6	18.2
50°-60°	879.2	15.9
60°-70°	642.4	11.6
70°-80°	341.8	6.2
80°-90°	79.0	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°	1601.1	28.9
0°-40°	2595.9	46.8
0°-60°	4481.7	80.8
0°-90°	5545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5545.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2109	2109	2109	2109	2109	
5°	2082	2086	2101	2106	2088	197
15°	1972	1985	2004	2016	1990	556
25°	1786	1808	1838	1844	1817	823
35°	1546	1570	1607	1618	1592	967
45°	1263	1286	1327	1328	1302	975
55°	958	977	1003	988	972	856
65°	637	650	661	648	637	630
75°	316	323	330	318	311	336
85°	60	61	64	65	63	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2109.1	2109.1	2109.1	2109.1	2109.1
2.5°	2092.6	2099.5	2106.5	2109.6	2092.4
5°	2081.7	2085.6	2101.2	2106.0	2088.2
7.5°	2063.6	2069.6	2084.7	2086.9	2069.8
10°	2039.0	2049.6	2059.7	2070.7	2049.8
12.5°	2007.6	2021.9	2039.0	2041.0	2025.2
15°	1972.2	1985.4	2004.1	2016.2	1990.0
17.5°	1932.7	1945.4	1969.6	1971.8	1956.0
20°	1888.5	1904.3	1933.3	1938.4	1910.0
22.5°	1838.4	1859.7	1883.9	1888.7	1867.8
25°	1785.9	1807.8	1837.7	1844.5	1816.6
27.5°	1730.9	1752.0	1785.7	1790.5	1767.0
30°	1672.0	1691.8	1728.7	1736.9	1712.9
32.5°	1612.3	1632.1	1672.9	1679.7	1656.4
35°	1545.9	1570.1	1607.2	1618.4	1592.3
37.5°	1478.2	1501.7	1543.9	1554.0	1525.9
40°	1408.1	1431.4	1473.0	1481.3	1454.3
42.5°	1336.5	1359.8	1404.2	1405.5	1383.1
45°	1263.3	1285.7	1327.0	1328.1	1302.0
47.5°	1189.0	1211.7	1248.6	1244.4	1219.8
50°	1113.9	1135.4	1167.7	1159.4	1137.2
52.5°	1036.1	1057.0	1087.5	1073.9	1053.0
55°	957.9	977.2	1002.7	988.2	971.9
57.5°	879.0	898.5	918.1	903.4	889.3
60°	799.4	816.6	832.6	817.7	806.9
62.5°	718.6	733.3	747.1	732.9	722.7
65°	636.8	649.8	661.2	648.0	637.3
67.5°	555.5	566.5	577.1	563.4	552.2
70°	474.2	483.7	493.3	479.3	468.9
72.5°	394.0	402.4	410.9	397.3	388.3
75°	316.0	323.2	330.3	318.2	311.2
77.5°	241.5	247.7	252.5	244.8	238.0
80°	172.3	176.9	179.8	176.7	170.3
82.5°	110.8	114.0	115.6	115.4	111.2
85°	60.2	61.3	64.2	64.8	62.6
87.5°	23.3	24.8	25.5	27.5	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)