

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: P488610

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3HI-40-120-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: P488610  
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-LD4-3HI-40-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

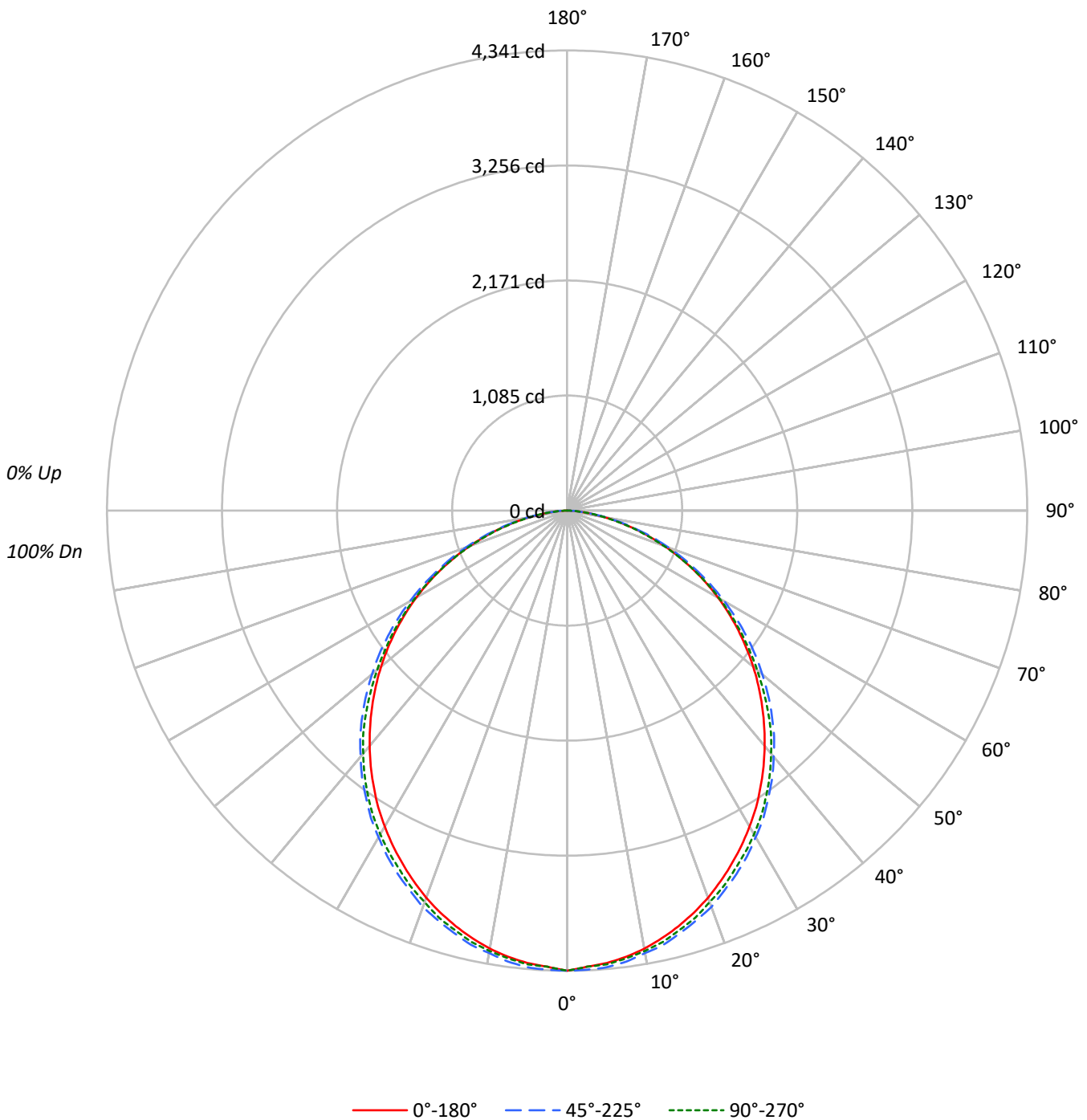
Lumens per Lamp: N/A  
Luminaire Lumens: 11412.4 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 129.6  
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°	11681	11681	11681
5°	11573	11682	11610
10°	11467	11583	11528
15°	11308	11491	11410
20°	11131	11395	11257
25°	10913	11230	11101
30°	10693	11056	10954
35°	10452	10867	10766
40°	10181	10649	10514
45°	9895	10394	10198
50°	9597	10062	9798
55°	9249	9682	9385
60°	8855	9223	8938
65°	8346	8665	8351
70°	7679	7988	7593
75°	6762	7068	6658
80°	5495	5734	5432
85°	3825	4079	3980



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.8	3.6
10°-20°	1158.5	10.2
20°-30°	1727.9	15.1
30°-40°	2047.5	17.9
40°-50°	2071.8	18.2
50°-60°	1809.4	15.9
60°-70°	1322.2	11.6
70°-80°	703.5	6.2
80°-90°	162.6	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°	3295.2	28.9
0°-40°	5342.8	46.8
0°-60°	9224.0	80.8
0°-90°	11412.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11412.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4341	4341	4341	4341	4341	
5°	4284	4292	4325	4334	4298	406
15°	4059	4086	4125	4150	4096	1144
25°	3676	3721	3782	3796	3739	1693
35°	3182	3232	3308	3331	3277	1990
45°	2600	2646	2731	2734	2680	2006
55°	1971	2011	2064	2034	2000	1762
65°	1311	1337	1361	1334	1312	1297
75°	650	665	680	655	640	691
85°	124	126	132	133	129	157
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4340.9	4340.9	4340.9	4340.9	4340.9
2.5°	4307.0	4321.0	4335.4	4341.8	4306.5
5°	4284.3	4292.5	4324.6	4334.5	4297.9
7.5°	4247.3	4259.5	4290.7	4295.2	4259.9
10°	4196.6	4218.3	4239.1	4261.7	4218.8
12.5°	4131.9	4161.3	4196.6	4200.7	4168.1
15°	4059.1	4086.2	4124.7	4149.6	4095.7
17.5°	3977.7	4003.9	4053.7	4058.2	4025.6
20°	3886.8	3919.4	3979.1	3989.5	3931.1
22.5°	3783.7	3827.5	3877.3	3887.2	3844.3
25°	3675.6	3720.8	3782.3	3796.3	3738.9
27.5°	3562.5	3605.9	3675.1	3685.1	3636.7
30°	3441.3	3482.0	3558.0	3574.7	3525.4
32.5°	3318.3	3359.0	3443.1	3457.1	3409.2
35°	3181.7	3231.5	3307.9	3331.0	3277.1
37.5°	3042.4	3090.8	3177.6	3198.4	3140.6
40°	2898.1	2946.1	3031.6	3048.7	2993.1
42.5°	2750.7	2798.6	2890.0	2892.7	2846.6
45°	2600.1	2646.2	2731.2	2733.5	2679.7
47.5°	2447.2	2493.8	2569.8	2561.2	2510.5
50°	2292.5	2336.9	2403.4	2386.2	2340.5
52.5°	2132.4	2175.4	2238.3	2210.2	2167.3
55°	1971.4	2011.2	2063.7	2033.9	2000.4
57.5°	1809.1	1849.3	1889.6	1859.3	1830.3
60°	1645.4	1680.6	1713.6	1682.9	1660.7
62.5°	1478.9	1509.2	1537.7	1508.3	1487.5
65°	1310.7	1337.4	1360.9	1333.7	1311.6
67.5°	1143.3	1165.9	1187.7	1159.6	1136.6
70°	976.0	995.4	1015.3	986.4	965.1
72.5°	810.9	828.1	845.7	817.7	799.2
75°	650.4	665.3	679.8	654.9	640.4
77.5°	497.0	509.7	519.7	503.8	489.8
80°	354.6	364.1	370.0	363.6	350.5
82.5°	227.9	234.7	237.9	237.4	228.8
85°	123.9	126.2	132.1	133.4	128.9
87.5°	47.9	51.1	52.5	56.5	52.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)