

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: P488573

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2HI-35-120-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: P488573  
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-35-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

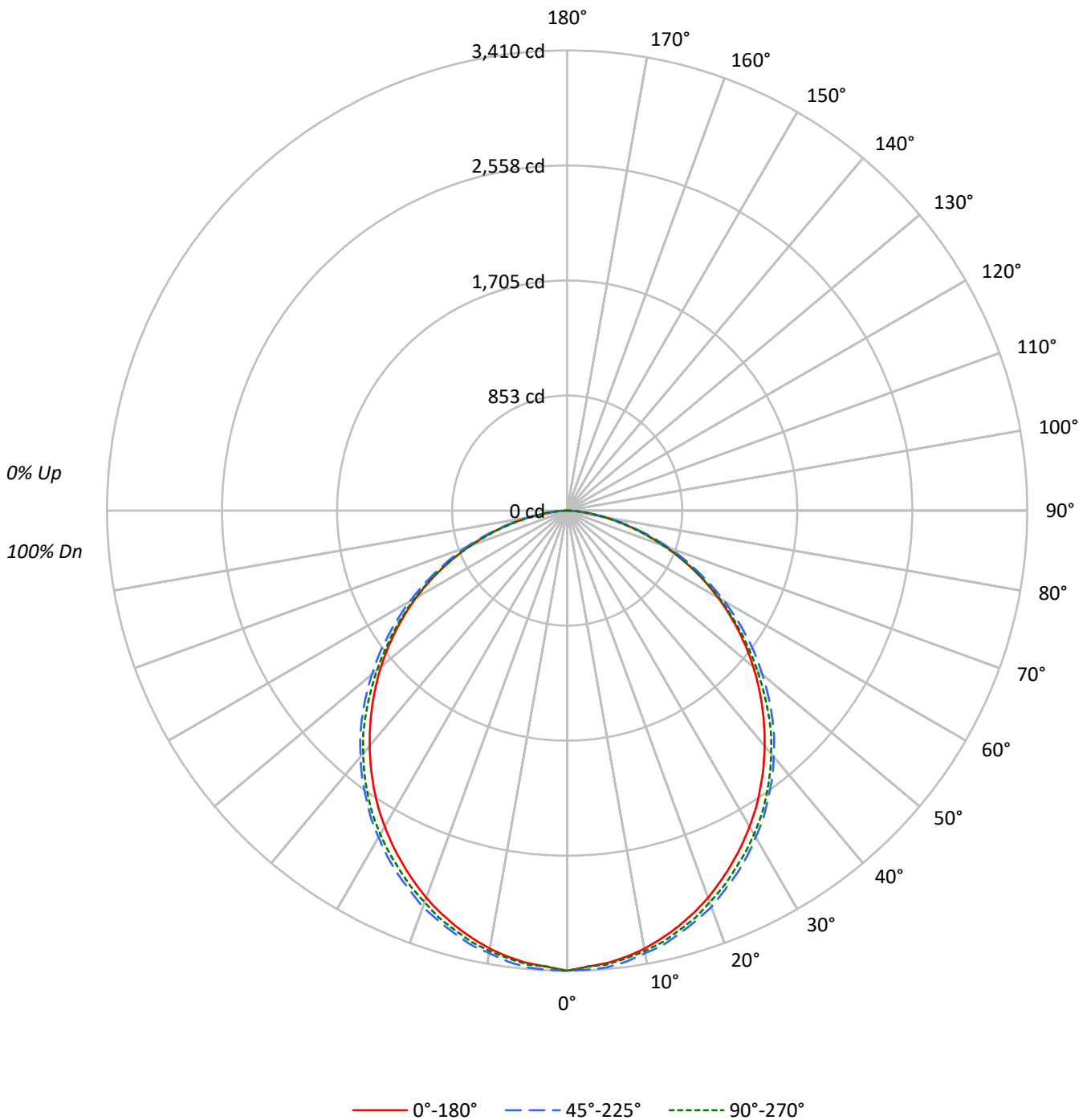
Lumens per Lamp: N/A  
Luminaire Lumens: 8965.3 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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

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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°	9177	9177	9177
5°	9092	9177	9120
10°	9008	9099	9056
15°	8883	9027	8964
20°	8744	8951	8844
25°	8573	8822	8721
30°	8400	8685	8606
35°	8211	8537	8457
40°	7998	8366	8260
45°	7773	8165	8011
50°	7540	7904	7697
55°	7266	7606	7373
60°	6956	7245	7021
65°	6556	6807	6560
70°	6032	6275	5965
75°	5312	5552	5231
80°	4316	4503	4268
85°	3004	3202	3128



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.2	3.6
10°-20°	910.1	10.2
20°-30°	1357.4	15.1
30°-40°	1608.5	17.9
40°-50°	1627.6	18.2
50°-60°	1421.4	15.9
60°-70°	1038.7	11.6
70°-80°	552.7	6.2
80°-90°	127.7	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°	2588.6	28.9
0°-40°	4197.1	46.8
0°-60°	7246.1	80.8
0°-90°	8965.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8965.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3410	3410	3410	3410	3410	
5°	3366	3372	3397	3405	3376	319
15°	3189	3210	3240	3260	3218	899
25°	2887	2923	2971	2982	2937	1330
35°	2500	2539	2599	2617	2574	1563
45°	2043	2079	2146	2147	2105	1576
55°	1549	1580	1621	1598	1572	1384
65°	1030	1051	1069	1048	1030	1019
75°	511	523	534	514	503	543
85°	97	99	104	105	101	123
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3410.1	3410.1	3410.1	3410.1	3410.1
2.5°	3383.4	3394.4	3405.8	3410.8	3383.1
5°	3365.7	3372.1	3397.3	3405.1	3376.3
7.5°	3336.5	3346.1	3370.6	3374.2	3346.5
10°	3296.7	3313.8	3330.1	3347.9	3314.2
12.5°	3245.9	3269.0	3296.7	3299.9	3274.4
15°	3188.7	3210.1	3240.3	3259.8	3217.5
17.5°	3124.8	3145.4	3184.5	3188.0	3162.4
20°	3053.4	3079.0	3125.8	3134.0	3088.2
22.5°	2972.4	3006.8	3045.9	3053.7	3020.0
25°	2887.4	2923.0	2971.3	2982.3	2937.2
27.5°	2798.6	2832.7	2887.1	2894.9	2856.9
30°	2703.4	2735.4	2795.1	2808.2	2769.5
32.5°	2606.8	2638.7	2704.8	2715.8	2678.2
35°	2499.5	2538.6	2598.6	2616.7	2574.4
37.5°	2390.0	2428.1	2496.3	2512.6	2467.1
40°	2276.7	2314.4	2381.5	2395.0	2351.3
42.5°	2160.9	2198.5	2270.3	2272.4	2236.2
45°	2042.6	2078.8	2145.6	2147.4	2105.1
47.5°	1922.5	1959.1	2018.8	2012.0	1972.2
50°	1801.0	1835.8	1888.0	1874.5	1838.6
52.5°	1675.2	1708.9	1758.3	1736.3	1702.6
55°	1548.7	1580.0	1621.2	1597.7	1571.5
57.5°	1421.2	1452.8	1484.4	1460.6	1437.9
60°	1292.5	1320.3	1346.2	1322.0	1304.6
62.5°	1161.8	1185.6	1208.0	1184.9	1168.6
65°	1029.6	1050.6	1069.1	1047.8	1030.3
67.5°	898.2	915.9	933.0	911.0	892.8
70°	766.7	782.0	797.6	774.9	758.2
72.5°	637.0	650.5	664.4	642.4	627.8
75°	510.9	522.6	534.0	514.5	503.1
77.5°	390.5	400.4	408.2	395.8	384.8
80°	278.5	286.0	290.6	285.7	275.4
82.5°	179.1	184.4	186.9	186.5	179.8
85°	97.3	99.1	103.7	104.8	101.3
87.5°	37.7	40.1	41.2	44.4	40.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)