

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: P489485

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3LO-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: P489485  
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-24-4-INS-A12125-LD4-3LO-35-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

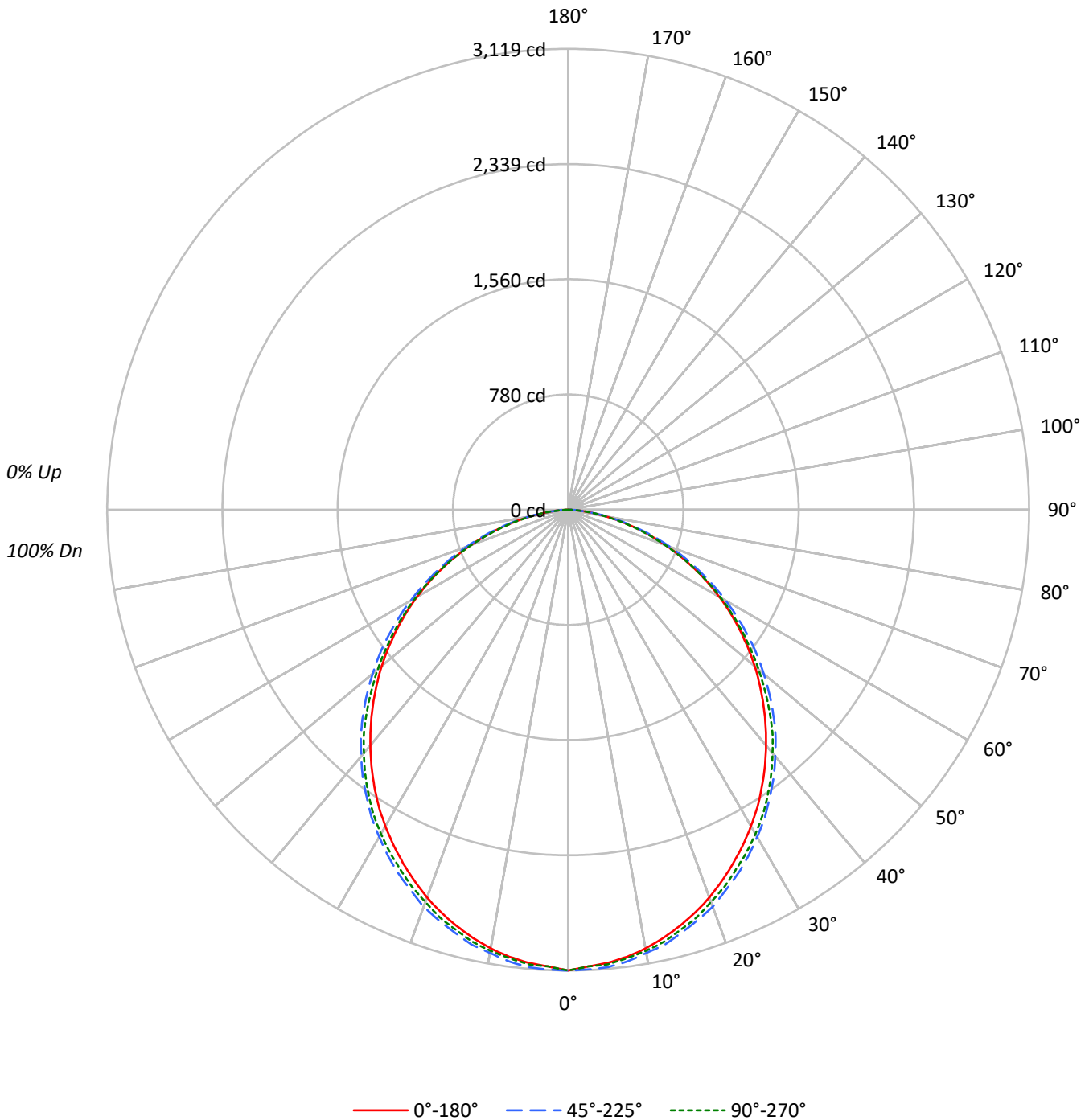
Lumens per Lamp: N/A  
Luminaire Lumens: 8200.7 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	4197	4197	4197
5°	4158	4197	4171
10°	4120	4162	4142
15°	4063	4129	4100
20°	3999	4094	4045
25°	3921	4035	3989
30°	3842	3972	3936
35°	3755	3904	3868
40°	3658	3826	3778
45°	3555	3734	3664
50°	3448	3615	3520
55°	3323	3479	3372
60°	3182	3314	3211
65°	2998	3113	3001
70°	2759	2870	2728
75°	2429	2540	2392
80°	1974	2060	1952
85°	1374	1465	1430



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.8	3.6
10°-20°	832.5	10.2
20°-30°	1241.6	15.1
30°-40°	1471.3	17.9
40°-50°	1488.8	18.2
50°-60°	1300.2	15.9
60°-70°	950.1	11.6
70°-80°	505.6	6.2
80°-90°	116.8	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°	2367.9	28.9
0°-40°	3839.2	46.8
0°-60°	6628.2	80.8
0°-90°	8200.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8200.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3119	3119	3119	3119	3119	
5°	3079	3084	3108	3115	3088	292
15°	2917	2936	2964	2982	2943	822
25°	2641	2674	2718	2728	2687	1217
35°	2286	2322	2377	2394	2355	1430
45°	1868	1902	1963	1964	1926	1441
55°	1417	1445	1483	1462	1437	1266
65°	942	961	978	958	942	932
75°	467	478	488	471	460	497
85°	89	91	95	96	93	113
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3119.3	3119.3	3119.3	3119.3	3119.3
2.5°	3094.9	3105.0	3115.4	3119.9	3094.6
5°	3078.6	3084.5	3107.6	3114.7	3088.4
7.5°	3052.0	3060.8	3083.2	3086.4	3061.1
10°	3015.6	3031.2	3046.1	3062.4	3031.5
12.5°	2969.1	2990.2	3015.6	3018.5	2995.1
15°	2916.8	2936.3	2963.9	2981.8	2943.1
17.5°	2858.3	2877.1	2912.9	2916.1	2892.7
20°	2793.0	2816.4	2859.3	2866.7	2824.8
22.5°	2718.9	2750.4	2786.1	2793.3	2762.4
25°	2641.2	2673.7	2717.9	2728.0	2686.7
27.5°	2559.9	2591.1	2640.9	2648.0	2613.2
30°	2472.8	2502.1	2556.7	2568.7	2533.3
32.5°	2384.5	2413.7	2474.1	2484.2	2449.8
35°	2286.3	2322.1	2377.0	2393.6	2354.9
37.5°	2186.2	2221.0	2283.4	2298.3	2256.7
40°	2082.5	2117.0	2178.4	2190.8	2150.8
42.5°	1976.6	2011.0	2076.7	2078.6	2045.5
45°	1868.4	1901.5	1962.6	1964.2	1925.6
47.5°	1758.5	1792.0	1846.6	1840.4	1804.0
50°	1647.4	1679.2	1727.0	1714.6	1681.8
52.5°	1532.3	1563.2	1608.4	1588.2	1557.4
55°	1416.6	1445.2	1482.9	1461.5	1437.4
57.5°	1300.0	1328.9	1357.8	1336.0	1315.2
60°	1182.3	1207.7	1231.4	1209.3	1193.4
62.5°	1062.7	1084.5	1105.0	1083.8	1068.9
65°	941.8	961.0	977.9	958.4	942.5
67.5°	821.6	837.8	853.4	833.3	816.7
70°	701.3	715.3	729.6	708.8	693.5
72.5°	582.7	595.1	607.7	587.6	574.3
75°	467.3	478.1	488.5	470.6	460.2
77.5°	357.2	366.3	373.4	362.0	352.0
80°	254.8	261.6	265.8	261.3	251.9
82.5°	163.8	168.7	170.9	170.6	164.4
85°	89.0	90.7	94.9	95.9	92.6
87.5°	34.4	36.7	37.7	40.6	37.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)