

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: P488863

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1HI-40-120-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: P488863  
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-24-2-INS-A12125-LD4-1HI-40-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

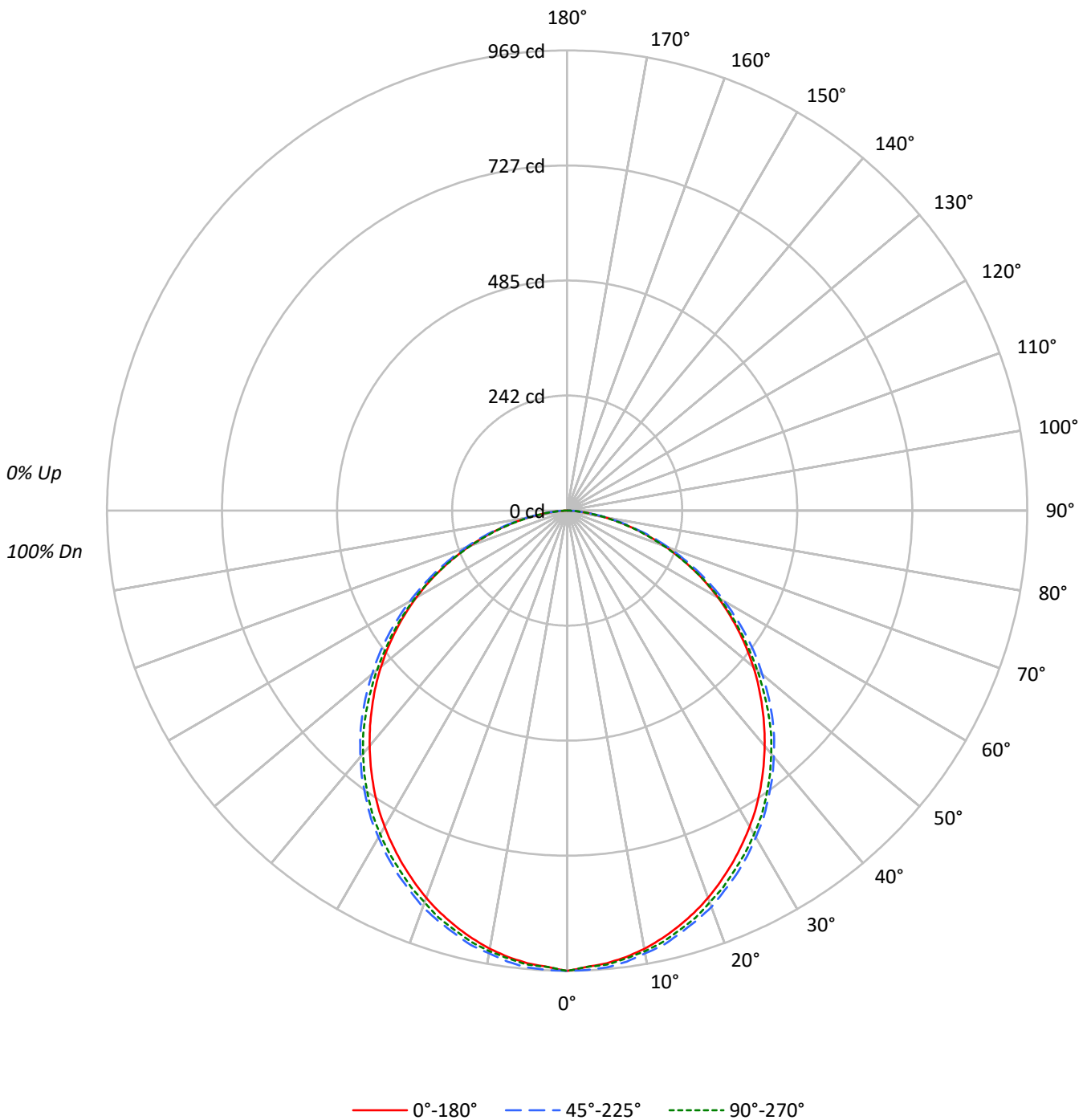
Lumens per Lamp: N/A  
Luminaire Lumens: 2548.4 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.6  
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	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°	2608	2608	2608
5°	2584	2609	2592
10°	2561	2587	2574
15°	2525	2566	2548
20°	2485	2544	2514
25°	2437	2508	2479
30°	2388	2469	2446
35°	2334	2427	2404
40°	2273	2378	2348
45°	2210	2321	2277
50°	2143	2247	2188
55°	2065	2162	2096
60°	1977	2060	1996
65°	1864	1935	1865
70°	1714	1784	1696
75°	1510	1578	1487
80°	1227	1280	1213
85°	855	911	889



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.3	3.6
10°-20°	258.7	10.2
20°-30°	385.8	15.1
30°-40°	457.2	17.9
40°-50°	462.6	18.2
50°-60°	404.0	15.9
60°-70°	295.3	11.6
70°-80°	157.1	6.2
80°-90°	36.3	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°	735.8	28.9
0°-40°	1193.0	46.8
0°-60°	2059.7	80.8
0°-90°	2548.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2548.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	969	969	969	969	969	
5°	957	958	966	968	960	91
15°	906	912	921	927	915	256
25°	821	831	845	848	835	378
35°	710	722	739	744	732	444
45°	581	591	610	610	598	448
55°	440	449	461	454	447	394
65°	293	299	304	298	293	290
75°	145	149	152	146	143	154
85°	28	28	30	30	29	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	969.3	969.3	969.3	969.3	969.3
2.5°	961.7	964.9	968.1	969.5	961.6
5°	956.7	958.5	965.7	967.9	959.7
7.5°	948.4	951.1	958.1	959.1	951.2
10°	937.1	942.0	946.6	951.6	942.1
12.5°	922.7	929.2	937.1	938.0	930.7
15°	906.4	912.5	921.0	926.6	914.6
17.5°	888.2	894.1	905.2	906.2	898.9
20°	867.9	875.2	888.5	890.8	877.8
22.5°	844.9	854.7	865.8	868.0	858.4
25°	820.8	830.9	844.6	847.7	834.9
27.5°	795.5	805.2	820.7	822.9	812.1
30°	768.4	777.5	794.5	798.2	787.2
32.5°	741.0	750.1	768.9	772.0	761.3
35°	710.5	721.6	738.7	743.8	731.8
37.5°	679.4	690.2	709.6	714.2	701.3
40°	647.2	657.9	676.9	680.8	668.4
42.5°	614.2	624.9	645.3	645.9	635.6
45°	580.6	590.9	609.9	610.4	598.4
47.5°	546.5	556.9	573.8	571.9	560.6
50°	511.9	521.8	536.7	532.8	522.6
52.5°	476.2	485.8	499.8	493.5	484.0
55°	440.2	449.1	460.8	454.2	446.7
57.5°	404.0	413.0	421.9	415.2	408.7
60°	367.4	375.3	382.7	375.8	370.8
62.5°	330.2	337.0	343.4	336.8	332.2
65°	292.7	298.6	303.9	297.8	292.9
67.5°	255.3	260.4	265.2	258.9	253.8
70°	217.9	222.3	226.7	220.3	215.5
72.5°	181.1	184.9	188.9	182.6	178.5
75°	145.2	148.6	151.8	146.2	143.0
77.5°	111.0	113.8	116.0	112.5	109.4
80°	79.2	81.3	82.6	81.2	78.3
82.5°	50.9	52.4	53.1	53.0	51.1
85°	27.7	28.2	29.5	29.8	28.8
87.5°	10.7	11.4	11.7	12.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)