

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: P489275

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2STD-20-120-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: P489275  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)  
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-P12125-LD4-2STD-20-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

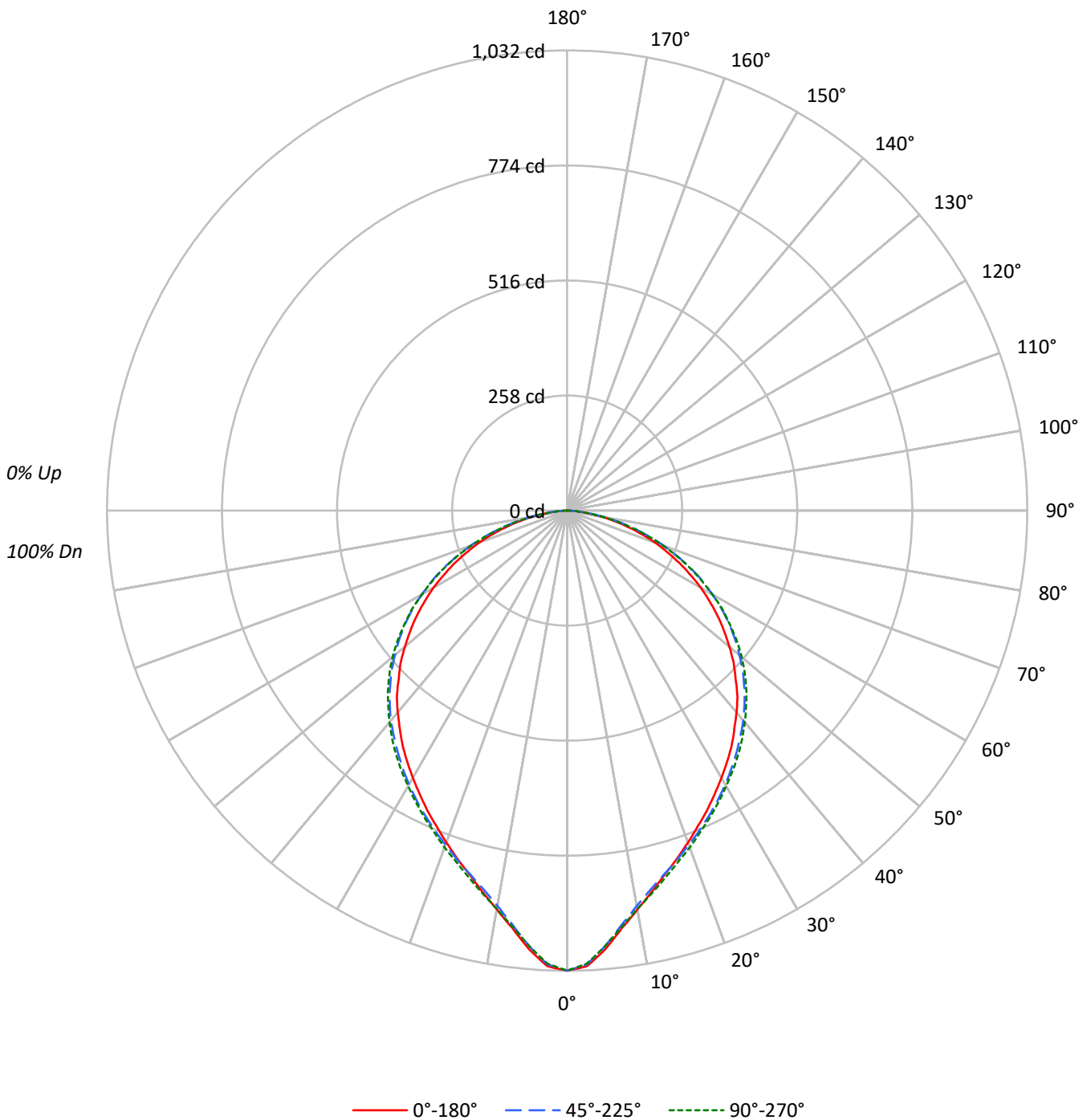
Lumens per Lamp: N/A  
Luminaire Lumens: 2396.6 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2777	2777	2777
5°	2666	2647	2647
10°	2481	2459	2478
15°	2354	2350	2373
20°	2268	2284	2302
25°	2203	2239	2252
30°	2150	2203	2217
35°	2113	2175	2197
40°	2076	2160	2178
45°	2033	2139	2164
50°	1988	2112	2141
55°	1933	2082	2090
60°	1863	2024	2020
65°	1766	1947	1934
70°	1649	1815	1793
75°	1456	1608	1592
80°	1182	1311	1246
85°	821	837	803



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.2	3.8
10°-20°	238.8	10.0
20°-30°	347.3	14.5
30°-40°	413.2	17.2
40°-50°	429.1	17.9
50°-60°	388.7	16.2
60°-70°	293.3	12.2
70°-80°	159.8	6.7
80°-90°	35.1	1.5
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°	677.2	28.3
0°-40°	1090.5	45.5
0°-60°	1908.3	79.6
0°-90°	2396.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2396.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1032	1032	1032	1032	1032	
5°	987	985	980	979	980	92
15°	845	843	844	849	852	239
25°	742	748	754	760	758	342
35°	643	651	662	672	669	402
45°	534	544	562	568	569	413
55°	412	422	444	447	446	368
65°	277	285	306	305	304	274
75°	140	146	155	156	153	149
85°	27	27	27	27	26	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1031.8	1031.8	1031.8	1031.8	1031.8
2.5°	1022.7	1021.7	1018.4	1017.1	1016.8
5°	986.9	984.6	979.9	979.4	979.9
7.5°	944.1	941.5	936.9	938.7	941.0
10°	908.0	901.6	899.8	902.3	906.7
12.5°	875.8	870.6	869.1	875.8	878.9
15°	845.1	843.0	843.6	849.2	851.8
17.5°	818.6	817.3	820.6	825.0	826.3
20°	792.0	794.6	797.7	802.3	803.9
22.5°	766.0	770.9	776.0	782.2	780.1
25°	742.0	748.2	754.1	760.3	758.5
27.5°	716.5	723.7	731.9	738.6	736.1
30°	692.0	701.0	709.0	717.2	713.4
32.5°	667.7	676.2	685.8	695.8	691.5
35°	643.2	651.0	662.1	672.1	668.8
37.5°	616.2	625.7	638.3	647.1	644.8
40°	590.9	599.7	614.9	620.6	620.0
42.5°	565.4	572.6	588.6	595.0	594.0
45°	534.2	543.7	562.0	568.2	568.7
47.5°	506.6	514.6	534.2	539.1	540.1
50°	474.9	485.0	504.5	510.5	511.3
52.5°	443.7	454.5	474.6	478.8	479.5
55°	412.0	421.8	443.7	446.8	445.5
57.5°	378.7	390.6	410.7	412.2	413.5
60°	346.2	356.6	376.1	378.2	375.4
62.5°	310.9	321.5	341.6	342.1	339.8
65°	277.4	285.4	305.8	305.3	303.7
67.5°	242.3	252.1	267.1	267.6	266.3
70°	209.6	216.3	230.7	231.0	227.9
72.5°	174.3	181.5	193.1	191.6	190.8
75°	140.0	145.7	154.7	155.7	153.1
77.5°	108.5	112.7	119.4	118.6	115.8
80°	76.3	79.7	84.6	83.5	80.4
82.5°	48.7	50.8	53.9	52.6	51.3
85°	26.6	26.8	27.1	26.8	26.0
87.5°	9.8	10.1	10.1	9.8	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)