

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: P489359

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5HI-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: P489359  
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-LD4-5HI-20-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

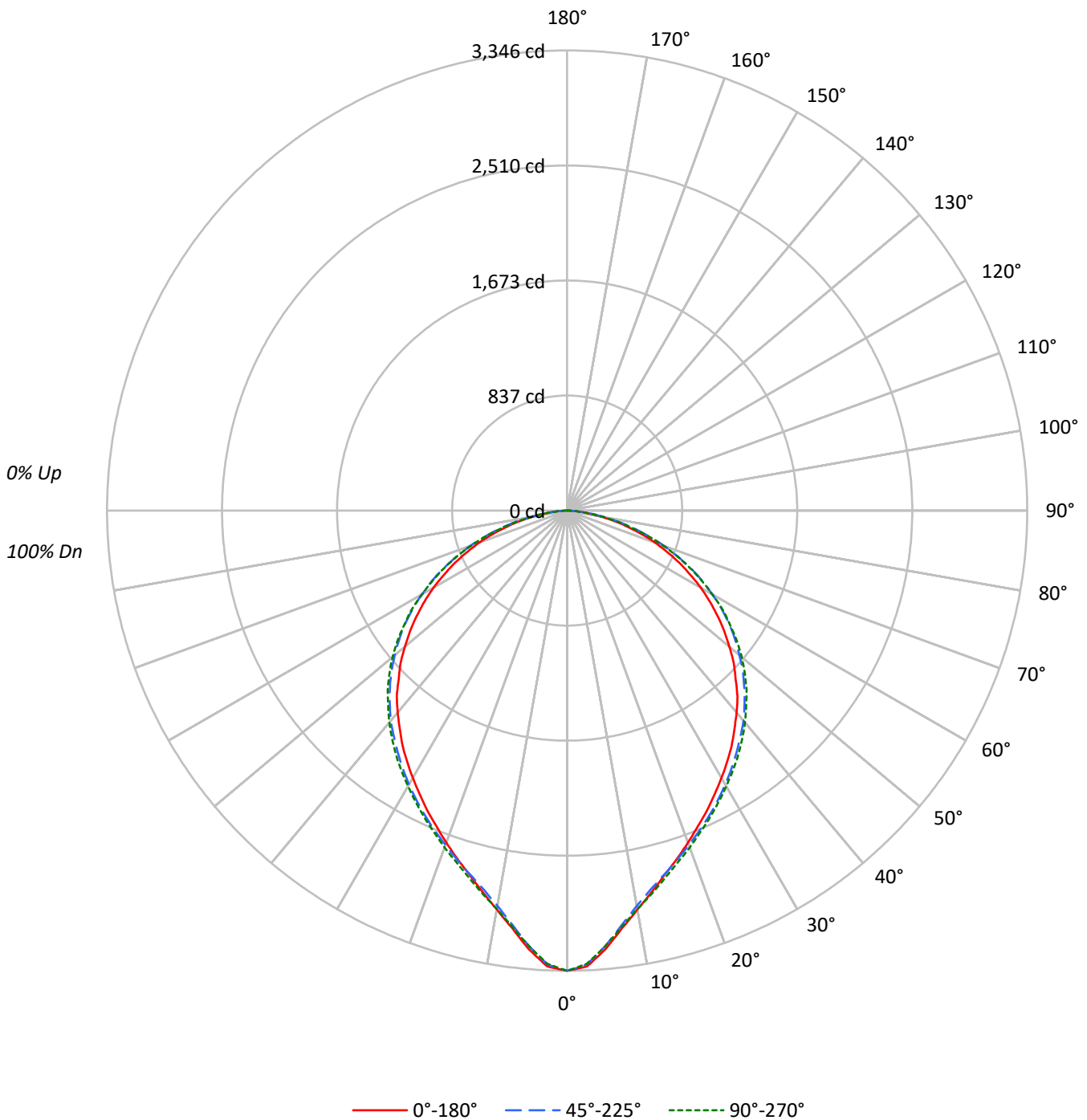
Lumens per Lamp: N/A  
Luminaire Lumens: 7772.9 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 108  
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°	9005	9005	9005
5°	8646	8585	8585
10°	8047	7974	8036
15°	7636	7622	7697
20°	7356	7409	7466
25°	7145	7262	7304
30°	6973	7145	7189
35°	6853	7054	7125
40°	6732	7006	7064
45°	6594	6937	7020
50°	6448	6851	6942
55°	6269	6751	6779
60°	6043	6566	6553
65°	5729	6315	6272
70°	5349	5888	5816
75°	4720	5216	5164
80°	3835	4251	4043
85°	2658	2711	2606



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.7	3.8
10°-20°	774.5	10.0
20°-30°	1126.3	14.5
30°-40°	1340.3	17.2
40°-50°	1391.7	17.9
50°-60°	1260.8	16.2
60°-70°	951.4	12.2
70°-80°	518.4	6.7
80°-90°	113.9	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°	2196.5	28.3
0°-40°	3536.8	45.5
0°-60°	6189.2	79.6
0°-90°	7772.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7772.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3346	3346	3346	3346	3346	
5°	3201	3193	3178	3177	3178	297
15°	2741	2734	2736	2754	2763	774
25°	2406	2427	2446	2466	2460	1109
35°	2086	2111	2147	2180	2169	1304
45°	1733	1764	1823	1843	1845	1339
55°	1336	1368	1439	1449	1445	1193
65°	900	926	992	990	985	889
75°	454	472	502	505	497	484
85°	86	87	88	87	84	109
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3346.4	3346.4	3346.4	3346.4	3346.4
2.5°	3317.1	3313.7	3302.9	3298.7	3297.8
5°	3200.9	3193.3	3178.3	3176.6	3178.3
7.5°	3062.1	3053.7	3038.7	3044.5	3052.0
10°	2945.0	2924.1	2918.2	2926.6	2940.8
12.5°	2840.4	2823.7	2818.7	2840.4	2850.5
15°	2740.9	2734.2	2736.0	2754.4	2762.7
17.5°	2654.9	2650.7	2661.5	2675.7	2679.9
20°	2568.7	2577.1	2587.1	2602.2	2607.2
22.5°	2484.3	2500.1	2516.9	2536.9	2530.3
25°	2406.5	2426.6	2445.8	2465.9	2460.0
27.5°	2323.7	2347.1	2373.9	2395.6	2387.2
30°	2244.2	2273.5	2299.5	2326.2	2313.7
32.5°	2165.7	2193.3	2224.2	2256.8	2242.6
35°	2086.2	2111.3	2147.3	2179.9	2169.0
37.5°	1998.5	2029.4	2070.3	2098.7	2091.3
40°	1916.5	1944.9	1994.3	2012.7	2011.0
42.5°	1833.7	1857.2	1909.0	1929.9	1926.5
45°	1732.6	1763.5	1822.8	1842.9	1844.6
47.5°	1643.1	1669.0	1732.6	1748.4	1751.8
50°	1540.2	1572.9	1636.4	1655.6	1658.1
52.5°	1439.0	1474.1	1539.4	1552.7	1555.3
55°	1336.2	1367.9	1439.0	1449.1	1444.9
57.5°	1228.3	1266.8	1332.0	1337.0	1341.2
60°	1122.9	1156.4	1220.0	1226.6	1217.5
62.5°	1008.4	1042.7	1107.9	1109.6	1102.0
65°	899.7	925.6	991.7	990.0	985.0
67.5°	786.0	817.7	866.3	867.9	863.8
70°	679.8	701.5	748.4	749.2	739.2
72.5°	565.3	588.7	626.3	621.3	618.8
75°	454.0	472.4	501.7	505.1	496.7
77.5°	352.0	365.4	387.2	384.7	375.4
80°	247.5	258.4	274.3	270.9	260.9
82.5°	158.0	164.8	174.8	170.6	166.4
85°	86.1	86.9	87.8	86.9	84.4
87.5°	31.8	32.6	32.6	31.8	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)