

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: P488815

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2STD-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: P488815  
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-12-4-INS-P12125-LD4-2STD-40-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

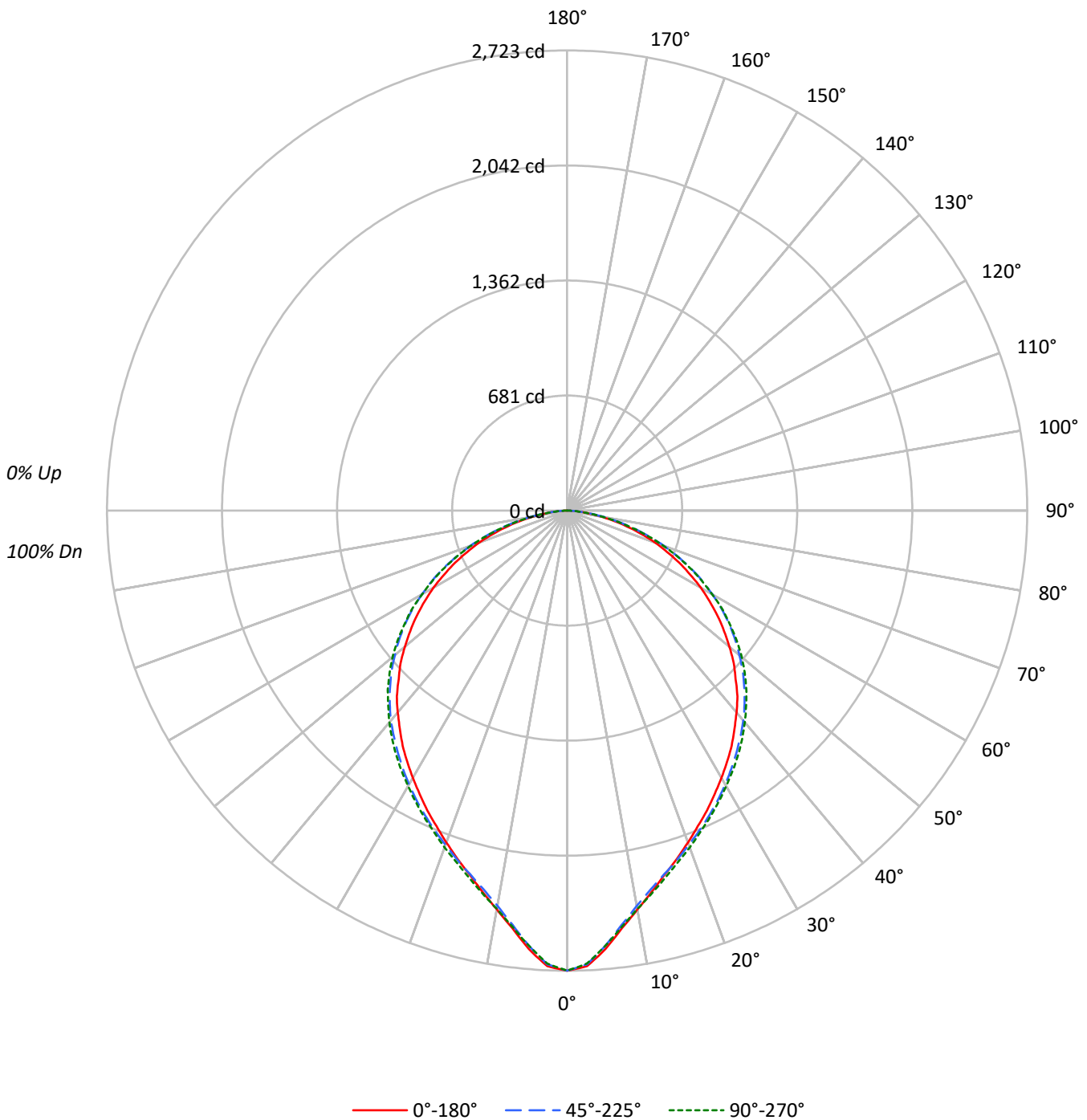
Lumens per Lamp: N/A  
Luminaire Lumens: 6324.1 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 66.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	7326	7326	7326
5°	7035	6985	6985
10°	6547	6488	6538
15°	6213	6201	6262
20°	5985	6028	6074
25°	5814	5908	5943
30°	5674	5813	5849
35°	5576	5739	5798
40°	5478	5700	5747
45°	5364	5644	5711
50°	5246	5574	5648
55°	5100	5493	5515
60°	4917	5342	5331
65°	4661	5137	5103
70°	4352	4791	4732
75°	3841	4244	4201
80°	3121	3459	3288
85°	2164	2205	2121



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.6	3.8
10°-20°	630.2	10.0
20°-30°	916.4	14.5
30°-40°	1090.5	17.2
40°-50°	1132.3	17.9
50°-60°	1025.8	16.2
60°-70°	774.0	12.2
70°-80°	421.8	6.7
80°-90°	92.7	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°	1787.1	28.3
0°-40°	2877.6	45.5
0°-60°	5035.6	79.6
0°-90°	6324.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6324.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2723	2723	2723	2723	2723	
5°	2604	2598	2586	2584	2586	242
15°	2230	2225	2226	2241	2248	629
25°	1958	1974	1990	2006	2002	902
35°	1697	1718	1747	1774	1765	1061
45°	1410	1435	1483	1499	1501	1090
55°	1087	1113	1171	1179	1176	971
65°	732	753	807	806	801	724
75°	369	384	408	411	404	393
85°	70	71	71	71	69	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2722.6	2722.6	2722.6	2722.6	2722.6
2.5°	2698.8	2696.1	2687.2	2683.8	2683.1
5°	2604.3	2598.1	2585.9	2584.5	2585.9
7.5°	2491.3	2484.5	2472.3	2477.0	2483.2
10°	2396.1	2379.1	2374.3	2381.1	2392.7
12.5°	2311.0	2297.4	2293.3	2311.0	2319.2
15°	2230.0	2224.6	2226.0	2241.0	2247.7
17.5°	2160.0	2156.6	2165.4	2177.0	2180.4
20°	2089.9	2096.7	2104.9	2117.2	2121.2
22.5°	2021.2	2034.1	2047.8	2064.1	2058.6
25°	1958.0	1974.3	1989.9	2006.2	2001.5
27.5°	1890.6	1909.6	1931.4	1949.1	1942.3
30°	1825.9	1849.8	1870.9	1892.6	1882.4
32.5°	1762.0	1784.5	1809.6	1836.2	1824.6
35°	1697.4	1717.8	1747.1	1773.6	1764.8
37.5°	1626.0	1651.1	1684.4	1707.6	1701.5
40°	1559.3	1582.4	1622.6	1637.5	1636.1
42.5°	1491.9	1511.0	1553.2	1570.2	1567.4
45°	1409.6	1434.8	1483.1	1499.4	1500.8
47.5°	1336.8	1357.9	1409.6	1422.5	1425.2
50°	1253.1	1279.7	1331.4	1347.0	1349.1
52.5°	1170.8	1199.4	1252.5	1263.3	1265.4
55°	1087.1	1113.0	1170.8	1179.0	1175.6
57.5°	999.4	1030.7	1083.8	1087.8	1091.2
60°	913.6	940.9	992.6	998.0	990.5
62.5°	820.5	848.3	901.4	902.8	896.6
65°	732.0	753.1	806.8	805.5	801.4
67.5°	639.5	665.3	704.8	706.1	702.8
70°	553.1	570.8	608.9	609.6	601.4
72.5°	459.9	478.9	509.5	505.5	503.5
75°	369.4	384.4	408.2	410.9	404.1
77.5°	286.4	297.3	315.0	313.0	305.5
80°	201.4	210.2	223.2	220.4	212.2
82.5°	128.6	134.0	142.2	138.8	135.4
85°	70.1	70.7	71.4	70.7	68.7
87.5°	25.8	26.5	26.5	25.8	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)