

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: P488790

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2HI-40-120-EDD-90**

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: P488790  
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-LD4-2HI-40-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

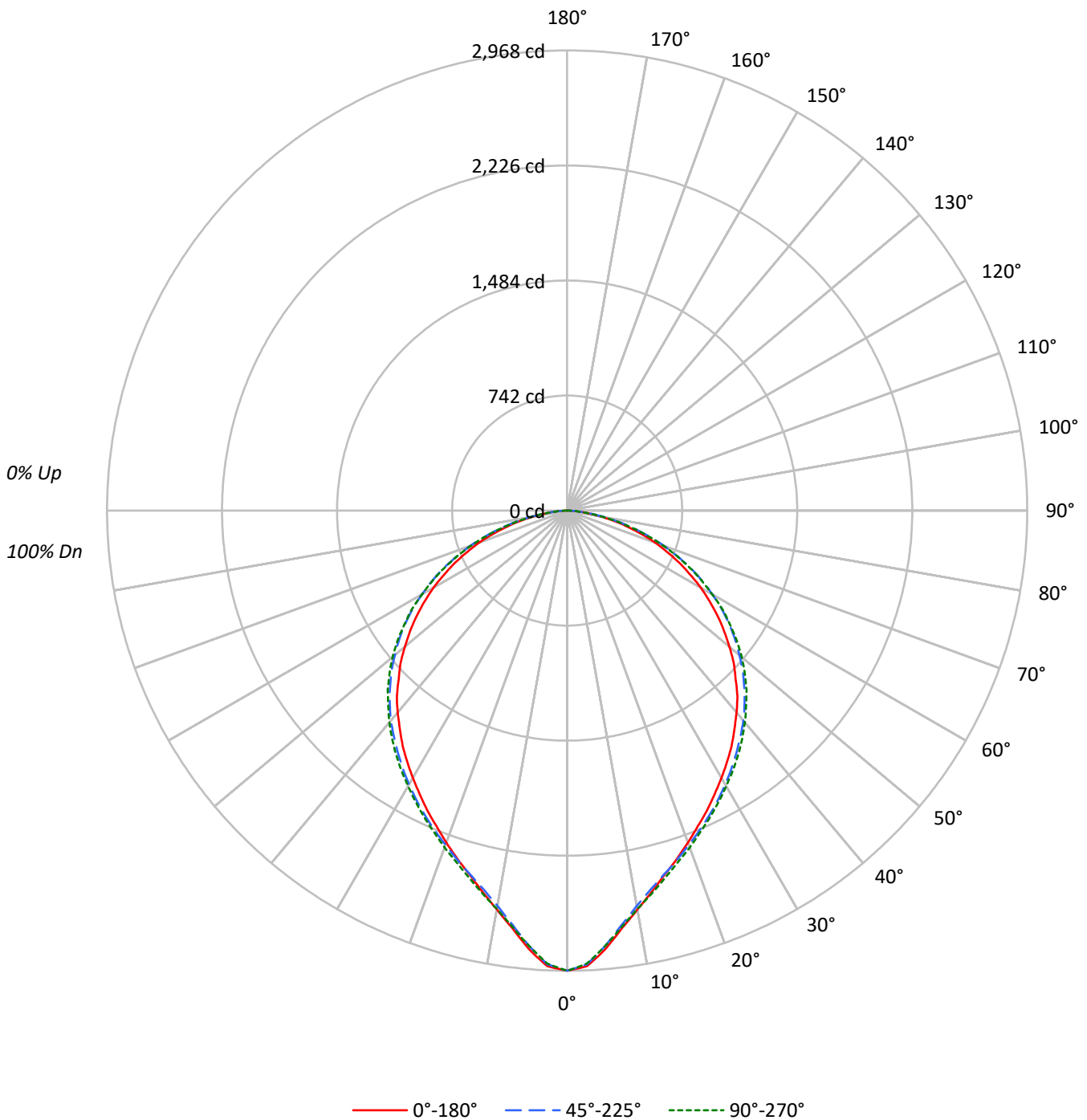
Lumens per Lamp: N/A  
Luminaire Lumens: 6893.4 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 86.4  
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°	7986	7986	7986
5°	7668	7614	7614
10°	7137	7072	7126
15°	6772	6760	6826
20°	6524	6570	6621
25°	6337	6440	6478
30°	6184	6337	6376
35°	6078	6256	6319
40°	5971	6213	6265
45°	5847	6152	6226
50°	5719	6075	6156
55°	5560	5987	6012
60°	5360	5823	5811
65°	5081	5600	5562
70°	4744	5222	5158
75°	4187	4627	4580
80°	3402	3769	3584
85°	2359	2402	2313



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.2	3.8
10°-20°	686.9	10.0
20°-30°	998.9	14.5
30°-40°	1188.6	17.2
40°-50°	1234.2	17.9
50°-60°	1118.1	16.2
60°-70°	843.7	12.2
70°-80°	459.7	6.7
80°-90°	101.0	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°	1948.0	28.3
0°-40°	3136.6	45.5
0°-60°	5488.9	79.6
0°-90°	6893.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6893.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2968	2968	2968	2968	2968	
5°	2839	2832	2819	2817	2819	263
15°	2431	2425	2426	2443	2450	686
25°	2134	2152	2169	2187	2182	983
35°	1850	1872	1904	1933	1924	1157
45°	1536	1564	1617	1634	1636	1188
55°	1185	1213	1276	1285	1281	1058
65°	798	821	880	878	874	789
75°	403	419	445	448	440	429
85°	76	77	78	77	75	96
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2967.7	2967.7	2967.7	2967.7	2967.7
2.5°	2941.7	2938.8	2929.1	2925.4	2924.7
5°	2838.7	2832.0	2818.6	2817.2	2818.6
7.5°	2715.6	2708.1	2694.8	2700.0	2706.7
10°	2611.8	2593.2	2588.0	2595.4	2608.0
12.5°	2519.0	2504.2	2499.8	2519.0	2528.0
15°	2430.8	2424.9	2426.4	2442.7	2450.1
17.5°	2354.5	2350.7	2360.4	2373.0	2376.7
20°	2278.1	2285.5	2294.4	2307.7	2312.2
22.5°	2203.2	2217.2	2232.1	2249.9	2244.0
25°	2134.2	2152.0	2169.1	2186.8	2181.7
27.5°	2060.8	2081.5	2105.3	2124.6	2117.1
30°	1990.3	2016.3	2039.3	2063.0	2051.9
32.5°	1920.7	1945.1	1972.5	2001.5	1988.9
35°	1850.2	1872.4	1904.3	1933.3	1923.6
37.5°	1772.3	1799.8	1836.1	1861.3	1854.7
40°	1699.7	1724.9	1768.6	1784.9	1783.4
42.5°	1626.2	1647.0	1693.0	1711.5	1708.5
45°	1536.5	1563.9	1616.6	1634.4	1635.9
47.5°	1457.2	1480.2	1536.5	1550.6	1553.5
50°	1366.0	1394.9	1451.2	1468.3	1470.5
52.5°	1276.2	1307.3	1365.2	1377.0	1379.3
55°	1185.0	1213.2	1276.2	1285.1	1281.4
57.5°	1089.4	1123.5	1181.3	1185.7	1189.5
60°	995.9	1025.6	1081.9	1087.8	1079.7
62.5°	894.3	924.7	982.6	984.0	977.3
65°	797.9	820.9	879.5	878.0	873.5
67.5°	697.0	725.2	768.3	769.7	766.1
70°	602.9	622.1	663.7	664.4	655.6
72.5°	501.3	522.1	555.4	551.0	548.8
75°	402.7	419.0	445.0	447.9	440.5
77.5°	312.2	324.1	343.3	341.1	332.9
80°	219.5	229.1	243.2	240.3	231.3
82.5°	140.1	146.1	155.0	151.3	147.6
85°	76.4	77.1	77.8	77.1	74.9
87.5°	28.2	28.9	28.9	28.2	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)