

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: P488813

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2STD-35-120-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: P488813  
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-35-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

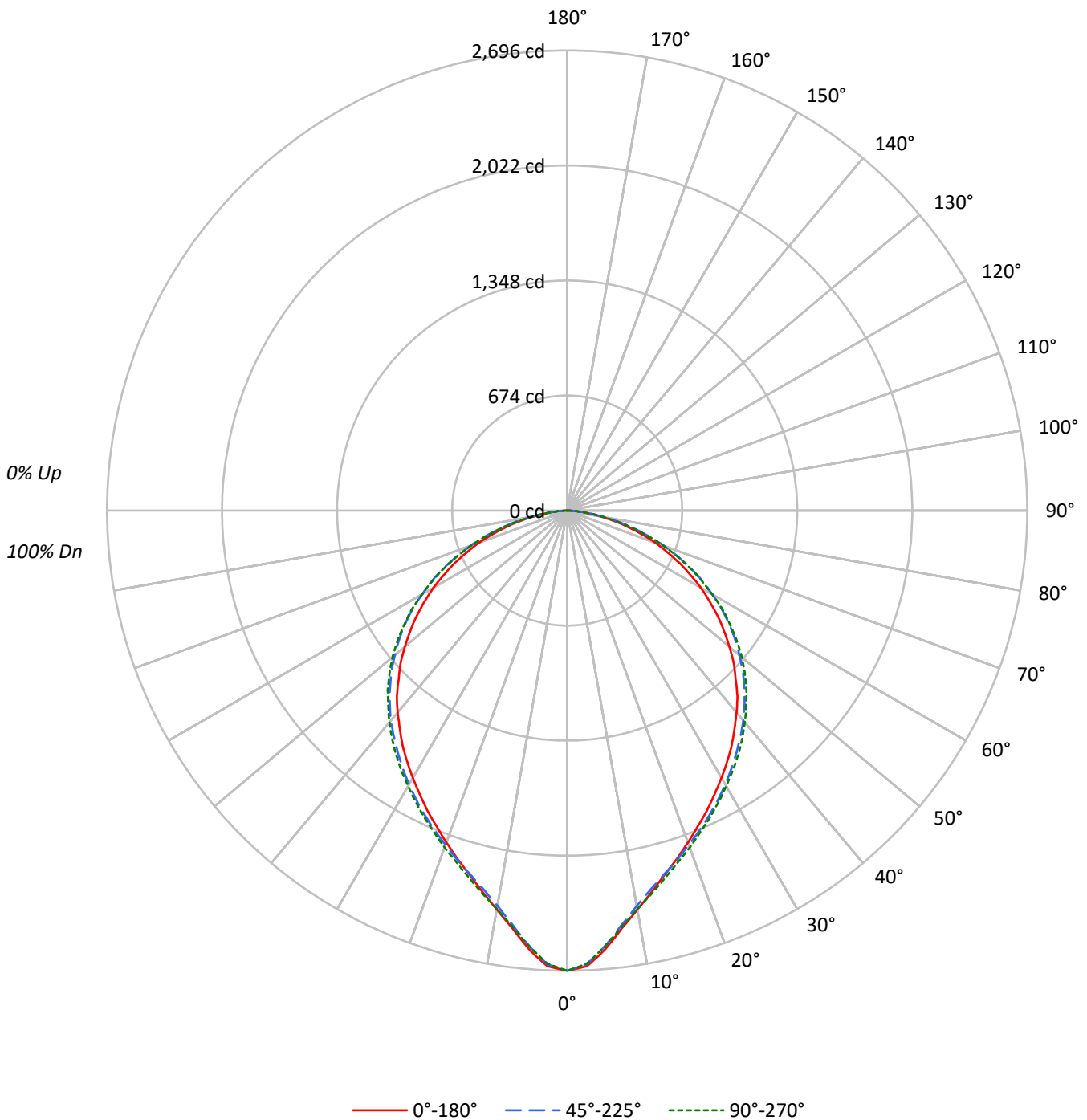
Lumens per Lamp: N/A  
Luminaire Lumens: 6261.5 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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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CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-2STD-35-120-EDD

### 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°	7254	7254	7254
5°	6965	6916	6916
10°	6483	6424	6473
15°	6151	6140	6200
20°	5926	5968	6014
25°	5756	5850	5884
30°	5618	5756	5791
35°	5521	5683	5740
40°	5423	5643	5690
45°	5312	5588	5655
50°	5194	5519	5592
55°	5050	5438	5461
60°	4869	5289	5278
65°	4614	5086	5053
70°	4308	4743	4685
75°	3803	4203	4160
80°	3090	3425	3256
85°	2143	2183	2100



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.2	3.8
10°-20°	623.9	10.0
20°-30°	907.3	14.5
30°-40°	1079.7	17.2
40°-50°	1121.1	17.9
50°-60°	1015.6	16.2
60°-70°	766.4	12.2
70°-80°	417.6	6.7
80°-90°	91.8	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°	1769.4	28.3
0°-40°	2849.1	45.5
0°-60°	4985.8	79.6
0°-90°	6261.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6261.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2696	2696	2696	2696	2696	
5°	2578	2572	2560	2559	2560	239
15°	2208	2203	2204	2219	2226	623
25°	1939	1955	1970	1986	1982	893
35°	1681	1701	1730	1756	1747	1051
45°	1396	1421	1468	1485	1486	1079
55°	1076	1102	1159	1167	1164	961
65°	725	746	799	798	794	716
75°	366	381	404	407	400	390
85°	69	70	71	70	68	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2695.7	2695.7	2695.7	2695.7	2695.7
2.5°	2672.1	2669.4	2660.6	2657.3	2656.6
5°	2578.5	2572.4	2560.3	2558.9	2560.3
7.5°	2466.7	2459.9	2447.8	2452.5	2458.6
10°	2372.4	2355.5	2350.8	2357.5	2369.0
12.5°	2288.1	2274.7	2270.6	2288.1	2296.3
15°	2208.0	2202.6	2204.0	2218.8	2225.5
17.5°	2138.6	2135.3	2144.0	2155.5	2158.8
20°	2069.2	2076.0	2084.1	2096.2	2100.2
22.5°	2001.2	2014.0	2027.5	2043.6	2038.3
25°	1938.6	1954.7	1970.2	1986.4	1981.7
27.5°	1871.9	1890.7	1912.3	1929.8	1923.1
30°	1807.9	1831.5	1852.3	1873.9	1863.8
32.5°	1744.6	1766.8	1791.7	1818.0	1806.5
35°	1680.6	1700.8	1729.8	1756.0	1747.3
37.5°	1609.9	1634.8	1667.8	1690.7	1684.6
40°	1543.9	1566.8	1606.5	1621.3	1619.9
42.5°	1477.2	1496.0	1537.8	1554.6	1551.9
45°	1395.7	1420.6	1468.4	1484.6	1485.9
47.5°	1323.6	1344.5	1395.7	1408.4	1411.1
50°	1240.7	1267.0	1318.2	1333.7	1335.7
52.5°	1159.2	1187.5	1240.1	1250.8	1252.9
55°	1076.4	1102.0	1159.2	1167.3	1164.0
57.5°	989.5	1020.5	1073.0	1077.0	1080.4
60°	904.6	931.6	982.7	988.1	980.7
62.5°	812.3	839.9	892.5	893.8	887.8
65°	724.7	745.6	798.8	797.5	793.5
67.5°	633.1	658.7	697.8	699.2	695.8
70°	547.6	565.1	602.8	603.5	595.5
72.5°	455.4	474.2	504.5	500.5	498.5
75°	365.8	380.6	404.2	406.9	400.1
77.5°	283.6	294.4	311.9	309.9	302.4
80°	199.4	208.1	221.0	218.3	210.1
82.5°	127.3	132.7	140.8	137.4	134.0
85°	69.4	70.0	70.7	70.0	68.0
87.5°	25.6	26.3	26.3	25.6	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)