

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: P488810

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2STD-30-120-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: P488810  
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-30-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

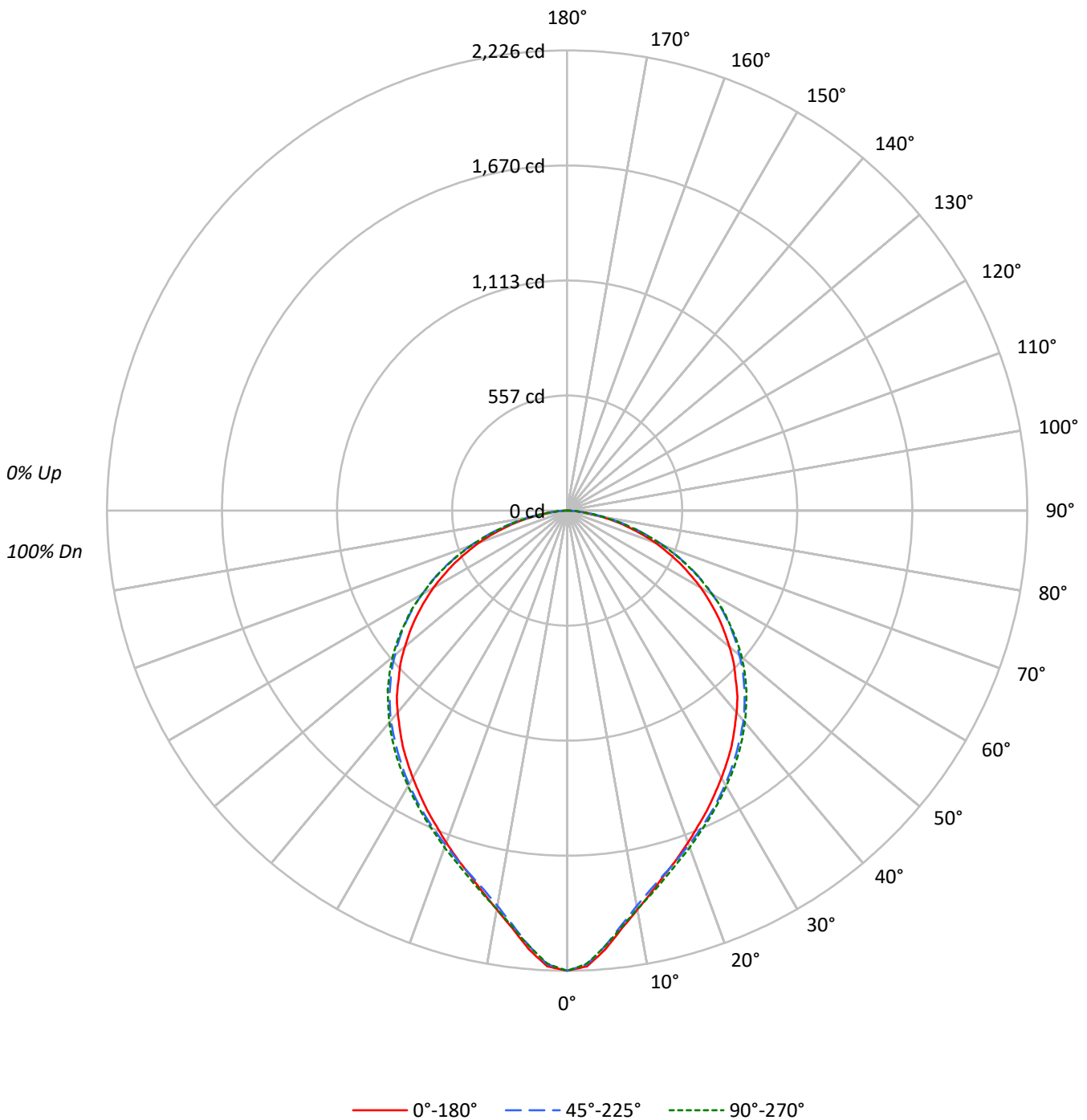
Lumens per Lamp: N/A  
Luminaire Lumens: 5170.2 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 66.6  
Input Voltage (V): NR  
Input Current (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°	5990	5990	5990
5°	5751	5710	5710
10°	5353	5304	5345
15°	5079	5070	5119
20°	4893	4928	4966
25°	4753	4831	4858
30°	4639	4753	4782
35°	4559	4692	4740
40°	4478	4660	4699
45°	4386	4614	4669
50°	4289	4557	4617
55°	4170	4491	4509
60°	4020	4367	4358
65°	3810	4200	4172
70°	3558	3917	3869
75°	3140	3470	3435
80°	2551	2827	2689
85°	1769	1803	1735



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.7	3.8
10°-20°	515.2	10.0
20°-30°	749.2	14.5
30°-40°	891.5	17.2
40°-50°	925.7	17.9
50°-60°	838.6	16.2
60°-70°	632.8	12.2
70°-80°	344.8	6.7
80°-90°	75.8	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°	1461.0	28.3
0°-40°	2352.5	45.5
0°-60°	4116.8	79.6
0°-90°	5170.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5170.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2226	2226	2226	2226	2226	
5°	2129	2124	2114	2113	2114	198
15°	1823	1819	1820	1832	1838	515
25°	1601	1614	1627	1640	1636	738
35°	1388	1404	1428	1450	1443	868
45°	1152	1173	1212	1226	1227	891
55°	889	910	957	964	961	794
65°	598	616	660	658	655	592
75°	302	314	334	336	330	322
85°	57	58	58	58	56	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2225.9	2225.9	2225.9	2225.9	2225.9
2.5°	2206.4	2204.2	2196.9	2194.1	2193.6
5°	2129.1	2124.1	2114.0	2113.0	2114.0
7.5°	2036.7	2031.2	2021.2	2025.1	2030.1
10°	1958.9	1945.0	1941.1	1946.6	1956.1
12.5°	1889.3	1878.2	1874.9	1889.3	1896.0
15°	1823.1	1818.7	1819.8	1832.1	1837.6
17.5°	1765.9	1763.1	1770.3	1779.8	1782.6
20°	1708.6	1714.2	1720.8	1730.9	1734.2
22.5°	1652.4	1663.0	1674.1	1687.5	1683.0
25°	1600.7	1614.0	1626.9	1640.2	1636.3
27.5°	1545.6	1561.2	1579.0	1593.5	1587.9
30°	1492.8	1512.3	1529.5	1547.3	1539.0
32.5°	1440.5	1458.9	1479.4	1501.1	1491.7
35°	1387.7	1404.4	1428.3	1450.0	1442.8
37.5°	1329.3	1349.9	1377.1	1396.0	1391.0
40°	1274.8	1293.7	1326.5	1338.7	1337.6
42.5°	1219.7	1235.3	1269.8	1283.7	1281.4
45°	1152.4	1173.0	1212.5	1225.8	1226.9
47.5°	1092.9	1110.2	1152.4	1163.0	1165.2
50°	1024.5	1046.2	1088.5	1101.2	1102.9
52.5°	957.2	980.5	1023.9	1032.8	1034.5
55°	888.8	909.9	957.2	963.9	961.1
57.5°	817.0	842.6	886.0	889.3	892.1
60°	746.9	769.2	811.5	815.9	809.8
62.5°	670.8	693.6	737.0	738.0	733.0
65°	598.4	615.7	659.6	658.5	655.2
67.5°	522.8	543.9	576.2	577.3	574.6
70°	452.2	466.6	497.8	498.3	491.7
72.5°	376.0	391.5	416.6	413.2	411.6
75°	302.0	314.3	333.7	336.0	330.4
77.5°	234.2	243.1	257.5	255.9	249.7
80°	164.6	171.9	182.4	180.2	173.5
82.5°	105.1	109.6	116.3	113.5	110.7
85°	57.3	57.8	58.4	57.8	56.2
87.5°	21.1	21.7	21.7	21.1	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)