

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: P488784

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2HI-27-120-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: P488784  
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-27-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

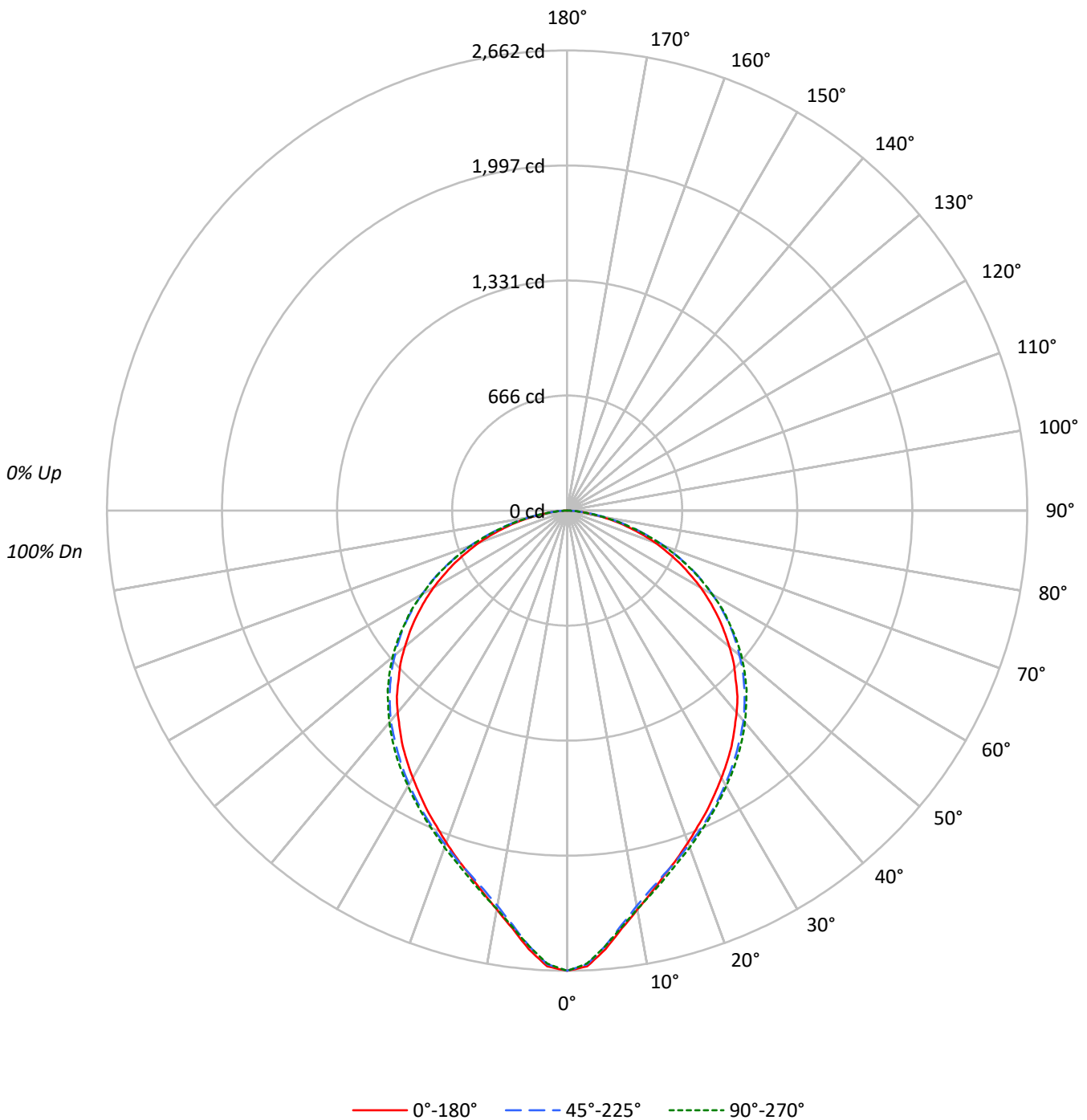
Lumens per Lamp: N/A  
Luminaire Lumens: 6183.4 lumens  
Efficiency: N/A  
Efficacy: 71.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	7164	7164	7164
5°	6878	6830	6830
10°	6402	6343	6392
15°	6074	6064	6123
20°	5852	5894	5939
25°	5684	5777	5811
30°	5547	5684	5719
35°	5452	5612	5668
40°	5356	5573	5619
45°	5245	5519	5584
50°	5130	5450	5522
55°	4987	5370	5393
60°	4808	5223	5212
65°	4557	5023	4989
70°	4255	4684	4626
75°	3755	4149	4108
80°	3051	3381	3216
85°	2115	2155	2075



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.2	3.8
10°-20°	616.1	10.0
20°-30°	896.0	14.5
30°-40°	1066.2	17.2
40°-50°	1107.1	17.9
50°-60°	1003.0	16.2
60°-70°	756.8	12.2
70°-80°	412.4	6.7
80°-90°	90.6	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°	1747.4	28.3
0°-40°	2813.5	45.5
0°-60°	4923.6	79.6
0°-90°	6183.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6183.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2662	2662	2662	2662	2662	
5°	2546	2540	2528	2527	2528	236
15°	2180	2175	2176	2191	2198	615
25°	1914	1930	1946	1962	1957	882
35°	1660	1680	1708	1734	1726	1038
45°	1378	1403	1450	1466	1467	1065
55°	1063	1088	1145	1153	1149	949
65°	716	736	789	788	784	708
75°	361	376	399	402	395	385
85°	68	69	70	69	67	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2662.1	2662.1	2662.1	2662.1	2662.1
2.5°	2638.8	2636.1	2627.4	2624.1	2623.4
5°	2546.3	2540.3	2528.3	2527.0	2528.3
7.5°	2435.9	2429.2	2417.3	2421.9	2427.9
10°	2342.8	2326.1	2321.4	2328.1	2339.4
12.5°	2259.6	2246.3	2242.3	2259.6	2267.6
15°	2180.4	2175.1	2176.5	2191.1	2197.7
17.5°	2112.0	2108.6	2117.3	2128.6	2131.9
20°	2043.4	2050.1	2058.1	2070.1	2074.0
22.5°	1976.3	1988.9	2002.2	2018.2	2012.8
25°	1914.4	1930.3	1945.7	1961.6	1957.0
27.5°	1848.5	1867.1	1888.4	1905.7	1899.1
30°	1785.3	1808.6	1829.2	1850.5	1840.6
32.5°	1722.8	1744.8	1769.4	1795.3	1784.0
35°	1659.6	1679.6	1708.2	1734.1	1725.5
37.5°	1589.8	1614.4	1647.0	1669.6	1663.6
40°	1524.6	1547.2	1586.5	1601.1	1599.7
42.5°	1458.7	1477.4	1518.6	1535.2	1532.6
45°	1378.3	1402.9	1450.1	1466.1	1467.4
47.5°	1307.1	1327.7	1378.3	1390.9	1393.5
50°	1225.3	1251.2	1301.8	1317.0	1319.1
52.5°	1144.7	1172.7	1224.6	1235.2	1237.3
55°	1062.9	1088.2	1144.7	1152.8	1149.4
57.5°	977.2	1007.7	1059.7	1063.6	1066.9
60°	893.3	919.9	970.5	975.8	968.5
62.5°	802.2	829.5	881.4	882.7	876.7
65°	715.7	736.3	788.9	787.6	783.6
67.5°	625.2	650.5	689.1	690.4	687.2
70°	540.8	558.1	595.3	596.0	588.0
72.5°	449.7	468.3	498.2	494.2	492.3
75°	361.2	375.8	399.1	401.8	395.1
77.5°	280.1	290.7	308.0	306.0	298.7
80°	196.9	205.5	218.2	215.5	207.5
82.5°	125.7	131.1	139.0	135.7	132.4
85°	68.5	69.2	69.8	69.2	67.2
87.5°	25.3	26.0	26.0	25.3	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)