

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: P488770

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1STD-20-120-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: P488770  
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-LD4-1STD-20-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

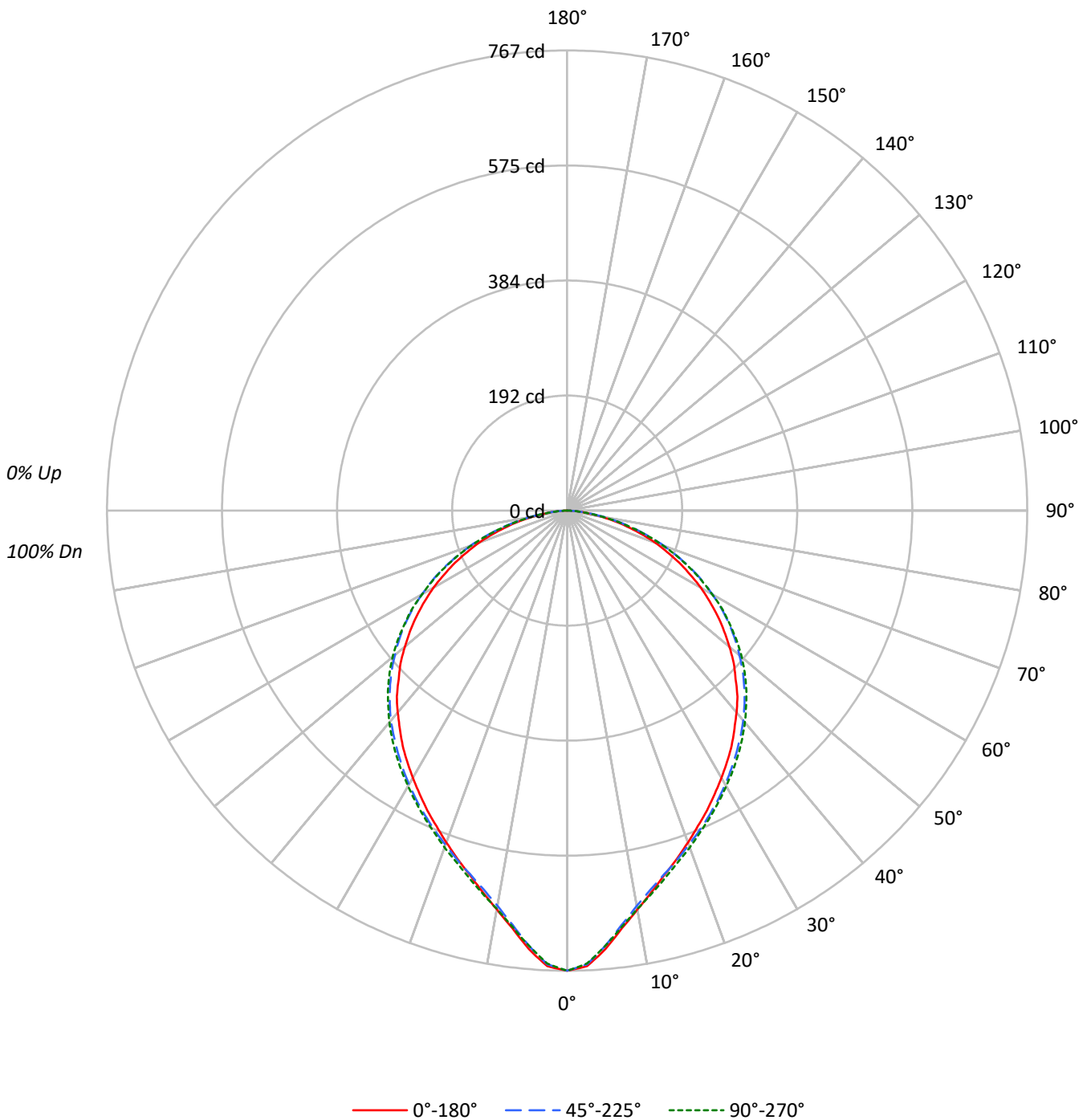
Lumens per Lamp: N/A  
Luminaire Lumens: 1781.4 lumens  
Efficiency: N/A  
Efficacy: 53.5 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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°	2064	2064	2064
5°	1982	1968	1968
10°	1844	1827	1842
15°	1750	1747	1764
20°	1686	1698	1711
25°	1637	1664	1674
30°	1598	1638	1648
35°	1571	1617	1633
40°	1543	1605	1619
45°	1511	1590	1609
50°	1478	1570	1591
55°	1437	1547	1553
60°	1385	1505	1502
65°	1313	1447	1437
70°	1226	1349	1333
75°	1082	1196	1183
80°	879	975	927
85°	608	621	599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.8	3.8
10°-20°	177.5	10.0
20°-30°	258.1	14.5
30°-40°	307.2	17.2
40°-50°	319.0	17.9
50°-60°	288.9	16.2
60°-70°	218.0	12.2
70°-80°	118.8	6.7
80°-90°	26.1	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°	503.4	28.3
0°-40°	810.6	45.5
0°-60°	1418.4	79.6
0°-90°	1781.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1781.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	734	732	728	728	728	68
15°	628	627	627	631	633	177
25°	552	556	560	565	564	254
35°	478	484	492	500	497	299
45°	397	404	418	422	423	307
55°	306	314	330	332	331	273
65°	206	212	227	227	226	204
75°	104	108	115	116	114	111
85°	20	20	20	20	19	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	766.9	766.9	766.9	766.9	766.9
2.5°	760.2	759.4	757.0	756.0	755.8
5°	733.6	731.8	728.4	728.0	728.4
7.5°	701.8	699.8	696.4	697.7	699.5
10°	674.9	670.1	668.8	670.7	674.0
12.5°	651.0	647.1	646.0	651.0	653.3
15°	628.2	626.6	627.0	631.2	633.2
17.5°	608.4	607.5	610.0	613.2	614.2
20°	588.7	590.6	592.9	596.4	597.5
22.5°	569.3	573.0	576.8	581.4	579.9
25°	551.5	556.1	560.5	565.1	563.8
27.5°	532.5	537.9	544.0	549.0	547.1
30°	514.3	521.0	527.0	533.1	530.3
32.5°	496.3	502.7	509.7	517.2	514.0
35°	478.1	483.9	492.1	499.6	497.1
37.5°	458.0	465.1	474.5	481.0	479.3
40°	439.2	445.7	457.0	461.3	460.9
42.5°	420.3	425.6	437.5	442.3	441.5
45°	397.1	404.2	417.8	422.4	422.7
47.5°	376.6	382.5	397.1	400.7	401.5
50°	353.0	360.5	375.0	379.4	380.0
52.5°	329.8	337.8	352.8	355.9	356.4
55°	306.2	313.5	329.8	332.1	331.1
57.5°	281.5	290.3	305.3	306.4	307.4
60°	257.4	265.0	279.6	281.1	279.0
62.5°	231.1	239.0	253.9	254.3	252.6
65°	206.2	212.1	227.3	226.9	225.7
67.5°	180.1	187.4	198.5	198.9	198.0
70°	155.8	160.8	171.5	171.7	169.4
72.5°	129.5	134.9	143.5	142.4	141.8
75°	104.1	108.3	115.0	115.8	113.8
77.5°	80.7	83.7	88.7	88.2	86.0
80°	56.7	59.2	62.9	62.1	59.8
82.5°	36.2	37.8	40.1	39.1	38.1
85°	19.7	19.9	20.1	19.9	19.4
87.5°	7.3	7.5	7.5	7.3	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)