

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: P488799

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2LO-30-120-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: P488799  
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-LD4-2LO-30-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

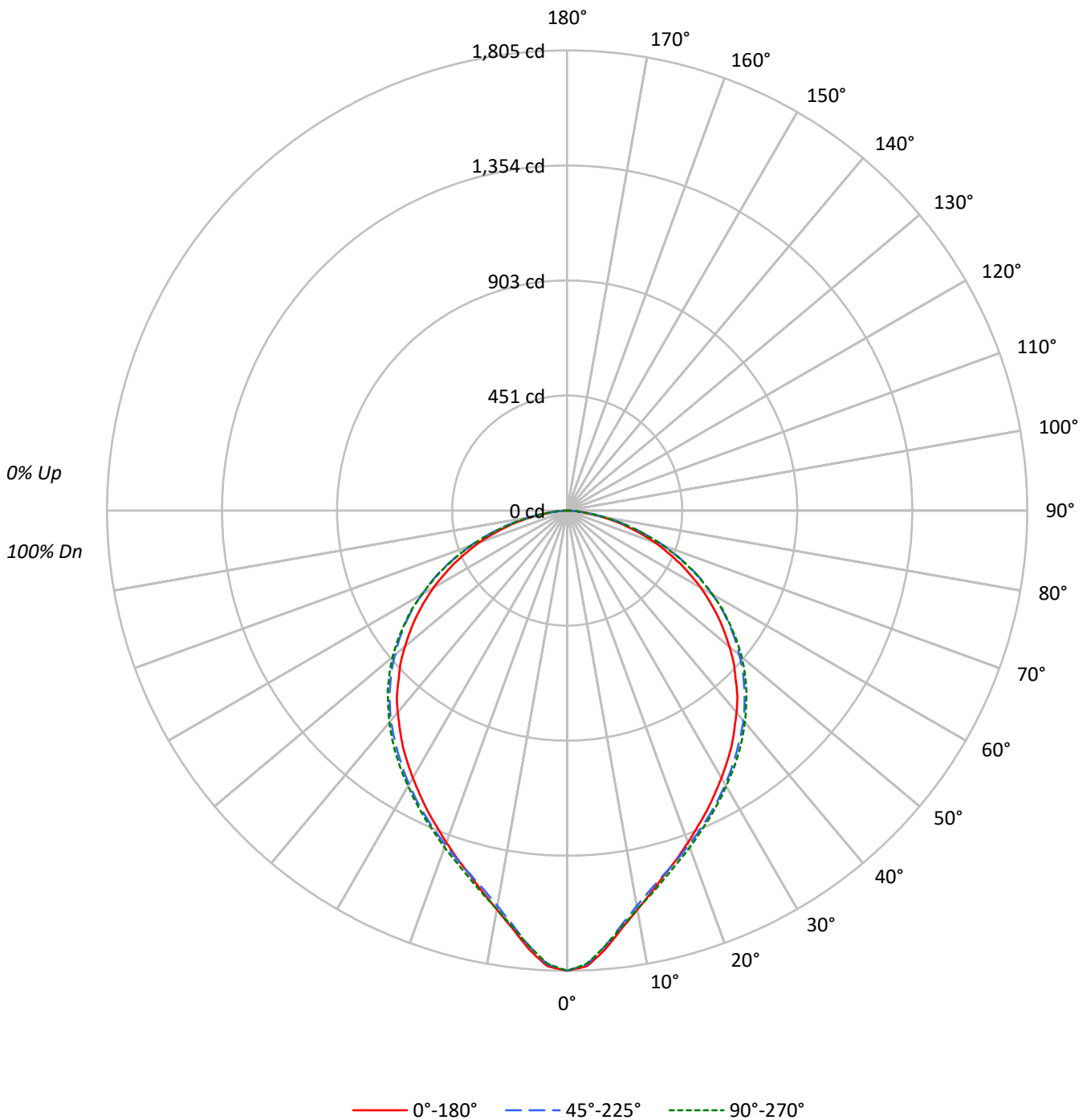
Lumens per Lamp: N/A  
Luminaire Lumens: 4192.1 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 46.8  
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°	4857	4857	4857
5°	4663	4630	4630
10°	4340	4300	4334
15°	4118	4111	4151
20°	3967	3996	4027
25°	3854	3917	3939
30°	3761	3854	3877
35°	3696	3804	3843
40°	3631	3778	3810
45°	3556	3741	3786
50°	3478	3695	3744
55°	3381	3641	3656
60°	3259	3541	3534
65°	3089	3405	3382
70°	2884	3175	3137
75°	2546	2813	2785
80°	2069	2292	2180
85°	1436	1460	1405



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.5	3.8
10°-20°	417.7	10.0
20°-30°	607.4	14.5
30°-40°	722.8	17.2
40°-50°	750.6	17.9
50°-60°	680.0	16.2
60°-70°	513.1	12.2
70°-80°	279.6	6.7
80°-90°	61.4	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°	1184.6	28.3
0°-40°	1907.5	45.5
0°-60°	3338.0	79.6
0°-90°	4192.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4192.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1805	1805	1805	1805	1805	
5°	1726	1722	1714	1713	1714	160
15°	1478	1475	1476	1486	1490	417
25°	1298	1309	1319	1330	1327	598
35°	1125	1139	1158	1176	1170	703
45°	934	951	983	994	995	722
55°	721	738	776	782	779	643
65°	485	499	535	534	531	480
75°	245	255	271	272	268	261
85°	46	47	47	47	46	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1804.8	1804.8	1804.8	1804.8	1804.8
2.5°	1789.0	1787.2	1781.3	1779.0	1778.6
5°	1726.3	1722.2	1714.1	1713.2	1714.1
7.5°	1651.4	1646.9	1638.8	1642.0	1646.0
10°	1588.3	1577.0	1573.8	1578.4	1586.0
12.5°	1531.9	1522.9	1520.2	1531.9	1537.4
15°	1478.2	1474.6	1475.6	1485.5	1490.0
17.5°	1431.8	1429.6	1435.4	1443.1	1445.4
20°	1385.4	1389.9	1395.3	1403.4	1406.1
22.5°	1339.8	1348.4	1357.4	1368.2	1364.6
25°	1297.9	1308.7	1319.1	1329.9	1326.8
27.5°	1253.2	1265.8	1280.3	1292.0	1287.5
30°	1210.4	1226.2	1240.2	1254.6	1247.8
32.5°	1168.0	1182.9	1199.6	1217.2	1209.5
35°	1125.2	1138.7	1158.1	1175.7	1169.8
37.5°	1077.8	1094.5	1116.6	1131.9	1127.9
40°	1033.6	1048.9	1075.6	1085.5	1084.6
42.5°	989.0	1001.6	1029.6	1040.8	1039.0
45°	934.4	951.1	983.1	993.9	994.8
47.5°	886.1	900.1	934.4	943.0	944.8
50°	830.7	848.3	882.5	892.9	894.3
52.5°	776.1	795.0	830.2	837.4	838.8
55°	720.6	737.8	776.1	781.5	779.3
57.5°	662.5	683.2	718.4	721.1	723.3
60°	605.6	623.7	658.0	661.6	656.6
62.5°	543.9	562.3	597.5	598.4	594.4
65°	485.2	499.2	534.8	533.9	531.2
67.5°	423.9	441.0	467.2	468.1	465.9
70°	366.6	378.3	403.6	404.1	398.7
72.5°	304.9	317.5	337.8	335.1	333.7
75°	244.9	254.8	270.6	272.4	267.9
77.5°	189.9	197.1	208.8	207.5	202.5
80°	133.5	139.3	147.9	146.1	140.7
82.5°	85.2	88.9	94.3	92.0	89.7
85°	46.5	46.9	47.3	46.9	45.5
87.5°	17.1	17.6	17.6	17.1	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)