

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: P488806

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2STD-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: P488806  
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-20-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

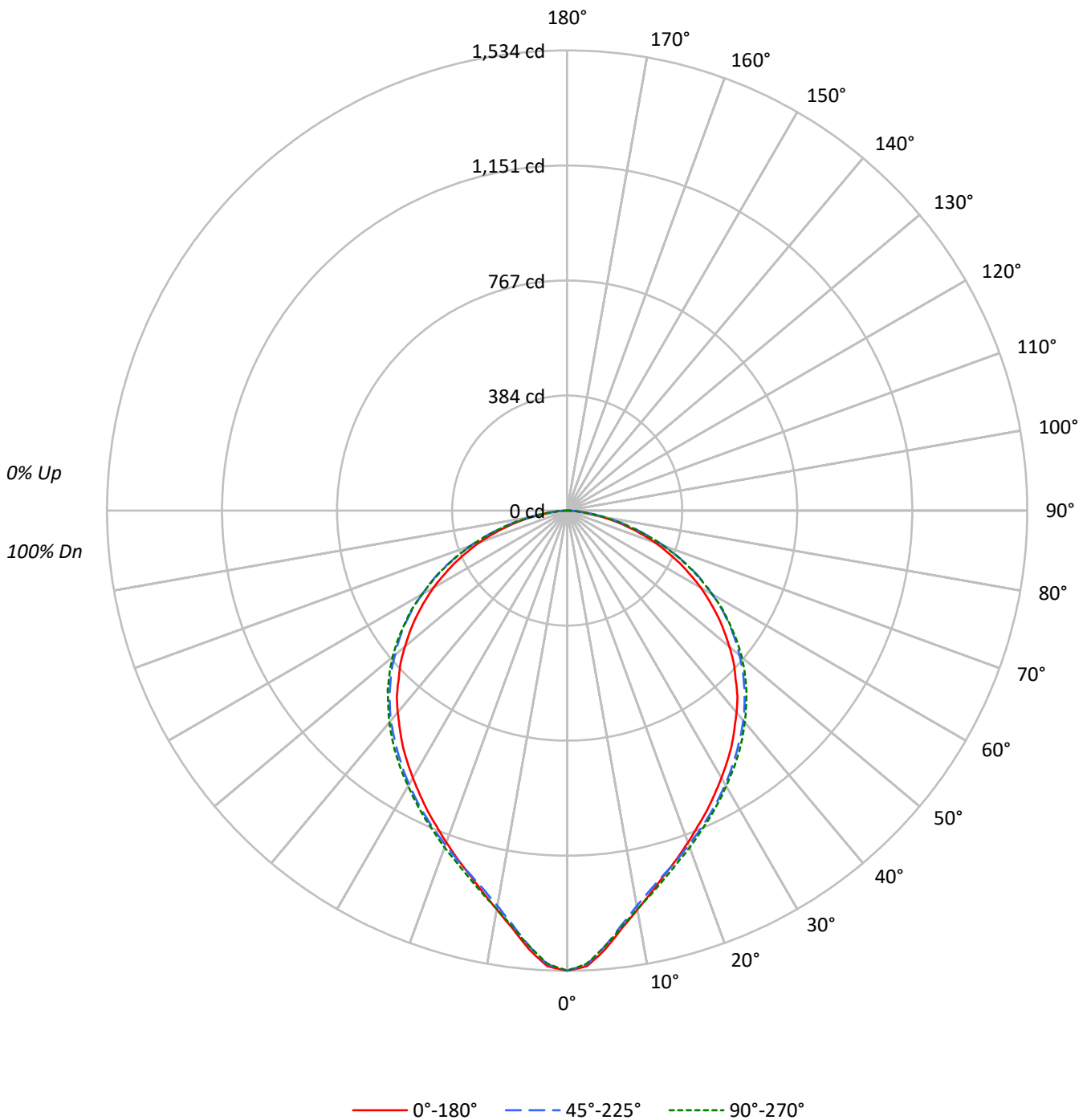
Lumens per Lamp: N/A  
Luminaire Lumens: 3562.7 lumens  
Efficiency: N/A  
Efficacy: 53.5 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	4127	4127	4127
5°	3963	3935	3935
10°	3688	3655	3683
15°	3500	3494	3528
20°	3372	3396	3422
25°	3275	3328	3348
30°	3196	3275	3295
35°	3141	3233	3266
40°	3086	3211	3238
45°	3022	3180	3218
50°	2956	3140	3182
55°	2873	3095	3107
60°	2770	3010	3003
65°	2626	2894	2875
70°	2452	2699	2666
75°	2164	2391	2367
80°	1757	1948	1853
85°	1220	1241	1195



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.5	3.8
10°-20°	355.0	10.0
20°-30°	516.2	14.5
30°-40°	614.3	17.2
40°-50°	637.9	17.9
50°-60°	577.9	16.2
60°-70°	436.1	12.2
70°-80°	237.6	6.7
80°-90°	52.2	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°	1006.8	28.3
0°-40°	1621.1	45.5
0°-60°	2836.8	79.6
0°-90°	3562.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3562.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1534	1534	1534	1534	1534	
5°	1467	1464	1457	1456	1457	136
15°	1256	1253	1254	1262	1266	355
25°	1103	1112	1121	1130	1128	508
35°	956	968	984	999	994	598
45°	794	808	836	845	846	614
55°	612	627	660	664	662	547
65°	412	424	454	454	452	408
75°	208	216	230	232	228	222
85°	40	40	40	40	39	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1533.8	1533.8	1533.8	1533.8	1533.8
2.5°	1520.4	1518.8	1513.9	1511.9	1511.5
5°	1467.1	1463.7	1456.8	1456.0	1456.8
7.5°	1403.5	1399.6	1392.8	1395.4	1398.9
10°	1349.8	1340.3	1337.5	1341.4	1347.9
12.5°	1301.9	1294.3	1291.9	1301.9	1306.5
15°	1256.3	1253.2	1254.0	1262.5	1266.3
17.5°	1216.8	1214.9	1219.9	1226.4	1228.3
20°	1177.4	1181.2	1185.8	1192.7	1195.0
22.5°	1138.7	1145.9	1153.6	1162.8	1159.7
25°	1103.0	1112.2	1121.0	1130.2	1127.6
27.5°	1065.1	1075.8	1088.1	1098.0	1094.2
30°	1028.6	1042.1	1054.0	1066.2	1060.5
32.5°	992.6	1005.3	1019.5	1034.4	1027.9
35°	956.2	967.7	984.2	999.2	994.2
37.5°	916.0	930.2	948.9	962.0	958.5
40°	878.4	891.5	914.1	922.5	921.7
42.5°	840.5	851.2	875.0	884.6	883.0
45°	794.1	808.3	835.5	844.7	845.5
47.5°	753.1	765.0	794.1	801.4	802.9
50°	706.0	720.9	750.0	758.8	760.0
52.5°	659.6	675.7	705.6	711.7	712.9
55°	612.4	627.0	659.6	664.2	662.3
57.5°	563.0	580.6	610.5	612.8	614.7
60°	514.7	530.0	559.2	562.2	558.0
62.5°	462.2	477.9	507.8	508.6	505.1
65°	412.4	424.3	454.5	453.8	451.5
67.5°	360.2	374.8	397.1	397.8	395.9
70°	311.6	321.5	343.0	343.4	338.8
72.5°	259.1	269.8	287.0	284.8	283.6
75°	208.1	216.5	230.0	231.5	227.7
77.5°	161.4	167.5	177.5	176.3	172.1
80°	113.4	118.4	125.7	124.2	119.6
82.5°	72.4	75.5	80.1	78.2	76.3
85°	39.5	39.8	40.2	39.8	38.7
87.5°	14.6	15.0	15.0	14.6	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)