

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: P488751

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1HI-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: P488751  
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-LD4-1HI-30-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

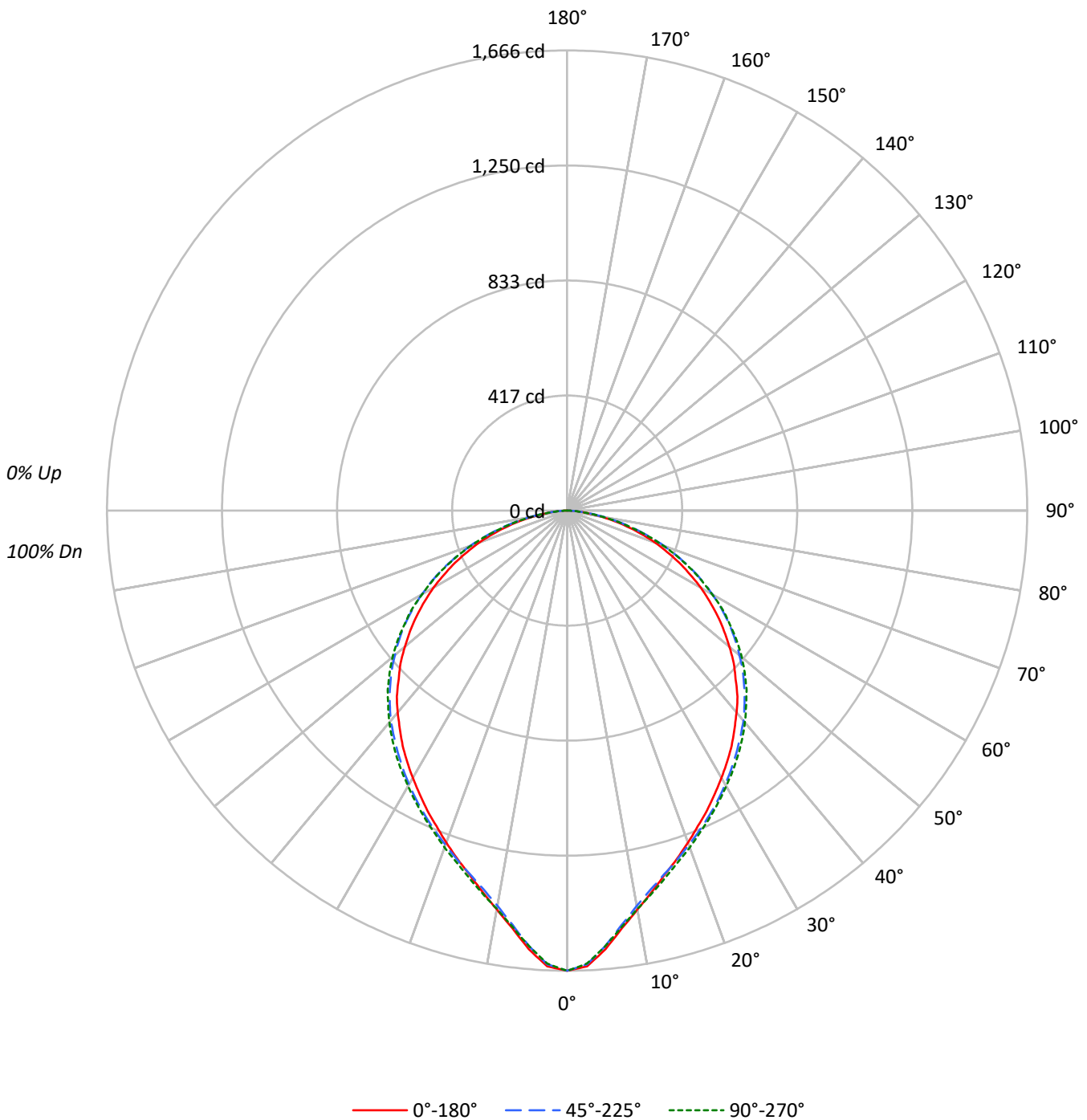
Lumens per Lamp: N/A  
Luminaire Lumens: 3869.7 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4483	4483	4483
5°	4304	4274	4274
10°	4006	3970	4001
15°	3802	3795	3832
20°	3662	3688	3717
25°	3557	3615	3636
30°	3472	3557	3579
35°	3412	3512	3547
40°	3352	3488	3517
45°	3282	3454	3495
50°	3210	3411	3456
55°	3121	3361	3375
60°	3009	3269	3262
65°	2852	3144	3123
70°	2662	2932	2895
75°	2350	2597	2571
80°	1909	2117	2013
85°	1325	1349	1297



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.2	3.8
10°-20°	385.6	10.0
20°-30°	560.7	14.5
30°-40°	667.2	17.2
40°-50°	692.8	17.9
50°-60°	627.7	16.2
60°-70°	473.6	12.2
70°-80°	258.1	6.7
80°-90°	56.7	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°	1093.5	28.3
0°-40°	1760.8	45.5
0°-60°	3081.3	79.6
0°-90°	3869.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3869.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1666	1666	1666	1666	1666	
5°	1594	1590	1582	1582	1582	148
15°	1365	1361	1362	1371	1375	385
25°	1198	1208	1218	1228	1225	552
35°	1039	1051	1069	1085	1080	649
45°	862	878	908	918	918	667
55°	665	681	716	721	719	594
65°	448	461	494	493	490	443
75°	226	235	250	251	247	241
85°	43	43	44	43	42	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1666.0	1666.0	1666.0	1666.0	1666.0
2.5°	1651.4	1649.7	1644.3	1642.2	1641.8
5°	1593.5	1589.8	1582.3	1581.5	1582.3
7.5°	1524.4	1520.3	1512.8	1515.7	1519.4
10°	1466.1	1455.7	1452.8	1457.0	1464.1
12.5°	1414.1	1405.8	1403.3	1414.1	1419.1
15°	1364.6	1361.2	1362.1	1371.2	1375.4
17.5°	1321.7	1319.6	1325.0	1332.1	1334.2
20°	1278.8	1283.0	1288.0	1295.5	1298.0
22.5°	1236.8	1244.7	1253.0	1263.0	1259.7
25°	1198.1	1208.0	1217.6	1227.6	1224.7
27.5°	1156.8	1168.5	1181.8	1192.7	1188.5
30°	1117.3	1131.9	1144.8	1158.1	1151.9
32.5°	1078.2	1091.9	1107.3	1123.5	1116.5
35°	1038.6	1051.1	1069.0	1085.3	1079.8
37.5°	994.9	1010.3	1030.7	1044.9	1041.1
40°	954.1	968.3	992.8	1002.0	1001.2
42.5°	912.9	924.6	950.4	960.8	959.1
45°	862.5	877.9	907.5	917.5	918.3
47.5°	818.0	830.9	862.5	870.4	872.1
50°	766.8	783.0	814.7	824.2	825.5
52.5°	716.4	733.9	766.4	773.0	774.3
55°	665.2	681.0	716.4	721.4	719.3
57.5°	611.5	630.7	663.2	665.6	667.7
60°	559.0	575.7	607.4	610.7	606.1
62.5°	502.0	519.1	551.6	552.4	548.6
65°	447.9	460.8	493.7	492.9	490.4
67.5°	391.3	407.1	431.3	432.1	430.0
70°	338.4	349.3	372.6	373.0	368.0
72.5°	281.4	293.1	311.8	309.3	308.1
75°	226.0	235.2	249.8	251.4	247.3
77.5°	175.3	181.9	192.7	191.5	186.9
80°	123.2	128.6	136.6	134.9	129.9
82.5°	78.7	82.0	87.0	84.9	82.8
85°	42.9	43.3	43.7	43.3	42.0
87.5°	15.8	16.2	16.2	15.8	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)