

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: P488534

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1HI-30-120-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: P488534  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)  
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-A12125-LD4-1HI-30-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

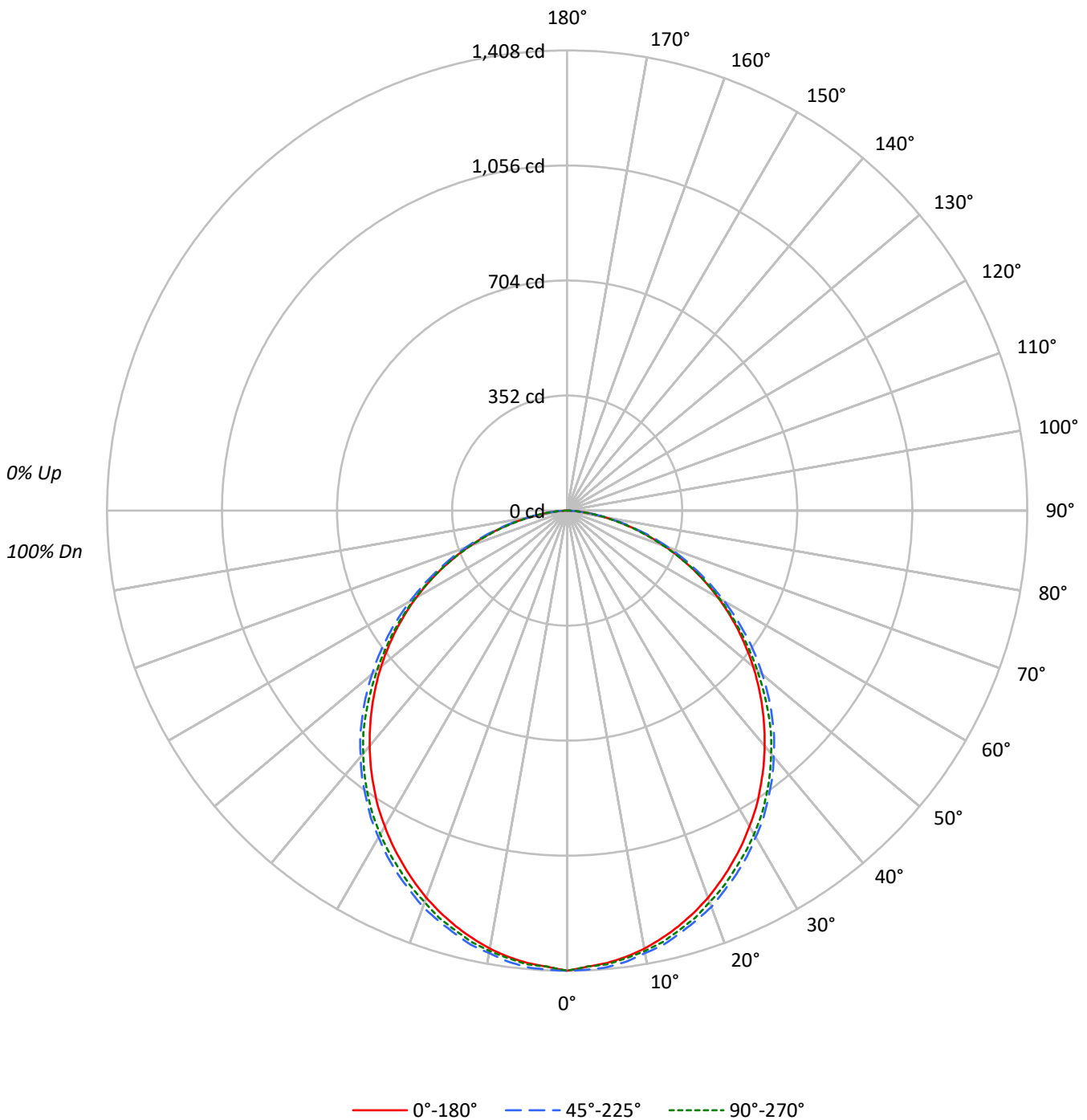
Lumens per Lamp: N/A  
Luminaire Lumens: 3701.4 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	3789	3789	3789
5°	3753	3789	3765
10°	3719	3757	3739
15°	3668	3727	3701
20°	3610	3696	3651
25°	3540	3642	3600
30°	3468	3586	3553
35°	3390	3525	3492
40°	3302	3454	3410
45°	3209	3371	3307
50°	3113	3263	3178
55°	3000	3140	3044
60°	2872	2991	2899
65°	2707	2811	2709
70°	2490	2591	2463
75°	2193	2293	2159
80°	1782	1860	1762
85°	1241	1321	1291



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.6	3.6
10°-20°	375.7	10.2
20°-30°	560.4	15.1
30°-40°	664.1	17.9
40°-50°	672.0	18.2
50°-60°	586.8	15.9
60°-70°	428.8	11.6
70°-80°	228.2	6.2
80°-90°	52.7	1.4
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°	1068.7	28.9
0°-40°	1732.8	46.8
0°-60°	2991.6	80.8
0°-90°	3701.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3701.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1390	1392	1403	1406	1394	132
15°	1316	1325	1338	1346	1328	371
25°	1192	1207	1227	1231	1213	549
35°	1032	1048	1073	1080	1063	645
45°	843	858	886	887	869	651
55°	639	652	669	660	649	572
65°	425	434	441	433	425	421
75°	211	216	220	212	208	224
85°	40	41	43	43	42	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1407.9	1407.9	1407.9	1407.9	1407.9
2.5°	1396.9	1401.4	1406.1	1408.2	1396.7
5°	1389.5	1392.2	1402.6	1405.8	1393.9
7.5°	1377.5	1381.5	1391.6	1393.1	1381.6
10°	1361.1	1368.1	1374.9	1382.2	1368.3
12.5°	1340.1	1349.6	1361.1	1362.4	1351.8
15°	1316.5	1325.3	1337.8	1345.8	1328.4
17.5°	1290.1	1298.6	1314.7	1316.2	1305.6
20°	1260.6	1271.2	1290.5	1293.9	1275.0
22.5°	1227.2	1241.4	1257.5	1260.8	1246.8
25°	1192.1	1206.8	1226.7	1231.3	1212.6
27.5°	1155.4	1169.5	1192.0	1195.2	1179.5
30°	1116.1	1129.3	1154.0	1159.4	1143.4
32.5°	1076.2	1089.4	1116.7	1121.3	1105.7
35°	1031.9	1048.1	1072.9	1080.3	1062.9
37.5°	986.7	1002.4	1030.6	1037.4	1018.6
40°	940.0	955.5	983.2	988.8	970.8
42.5°	892.1	907.7	937.3	938.2	923.2
45°	843.3	858.3	885.8	886.6	869.1
47.5°	793.7	808.8	833.5	830.7	814.2
50°	743.5	757.9	779.5	773.9	759.1
52.5°	691.6	705.6	725.9	716.8	702.9
55°	639.4	652.3	669.3	659.6	648.8
57.5°	586.7	599.8	612.8	603.0	593.6
60°	533.6	545.1	555.8	545.8	538.6
62.5°	479.7	489.5	498.7	489.2	482.4
65°	425.1	433.7	441.4	432.6	425.4
67.5°	370.8	378.2	385.2	376.1	368.6
70°	316.5	322.9	329.3	319.9	313.0
72.5°	263.0	268.6	274.3	265.2	259.2
75°	210.9	215.8	220.5	212.4	207.7
77.5°	161.2	165.3	168.5	163.4	158.9
80°	115.0	118.1	120.0	117.9	113.7
82.5°	73.9	76.1	77.2	77.0	74.2
85°	40.2	40.9	42.8	43.3	41.8
87.5°	15.5	16.6	17.0	18.3	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)