

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: P488580

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2LO-27-120-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: P488580  
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-LD4-2LO-27-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

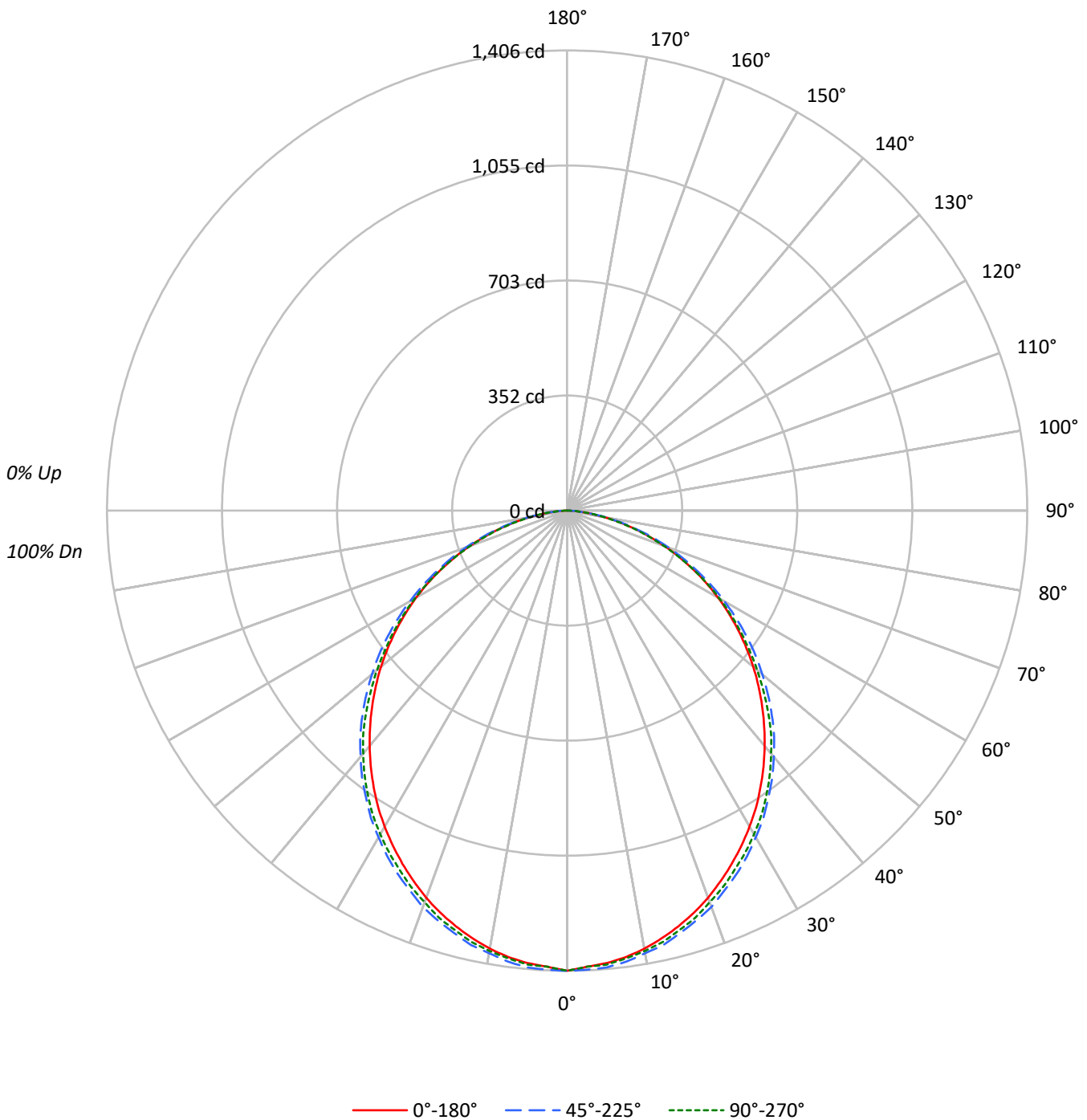
Lumens per Lamp: N/A  
Luminaire Lumens: 3696.7 lumens  
Efficiency: N/A  
Efficacy: 79.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	3784	3784	3784
5°	3749	3784	3761
10°	3715	3752	3734
15°	3663	3722	3696
20°	3605	3691	3647
25°	3535	3638	3596
30°	3464	3581	3549
35°	3386	3520	3487
40°	3298	3450	3406
45°	3205	3367	3303
50°	3109	3259	3174
55°	2996	3136	3040
60°	2869	2988	2895
65°	2704	2807	2705
70°	2487	2588	2460
75°	2191	2289	2156
80°	1781	1857	1759
85°	1238	1321	1291



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.4	3.6
10°-20°	375.3	10.2
20°-30°	559.7	15.1
30°-40°	663.2	17.9
40°-50°	671.1	18.2
50°-60°	586.1	15.9
60°-70°	428.3	11.6
70°-80°	227.9	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°	1067.4	28.9
0°-40°	1730.6	46.8
0°-60°	2987.8	80.8
0°-90°	3696.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3696.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1406	1406	1406	1406	1406	
5°	1388	1390	1401	1404	1392	132
15°	1315	1324	1336	1344	1327	371
25°	1191	1205	1225	1230	1211	549
35°	1031	1047	1072	1079	1062	645
45°	842	857	885	885	868	650
55°	639	652	668	659	648	571
65°	425	433	441	432	425	420
75°	211	216	220	212	207	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°	1406.1	1406.1	1406.1	1406.1	1406.1
2.5°	1395.1	1399.6	1404.3	1406.4	1395.0
5°	1387.8	1390.4	1400.8	1404.0	1392.2
7.5°	1375.8	1379.7	1389.8	1391.3	1379.9
10°	1359.4	1366.4	1373.1	1380.5	1366.5
12.5°	1338.4	1347.9	1359.4	1360.7	1350.1
15°	1314.8	1323.6	1336.1	1344.1	1326.7
17.5°	1288.5	1297.0	1313.1	1314.5	1304.0
20°	1259.0	1269.6	1288.9	1292.3	1273.4
22.5°	1225.6	1239.8	1255.9	1259.2	1245.2
25°	1190.6	1205.2	1225.2	1229.7	1211.1
27.5°	1154.0	1168.0	1190.4	1193.7	1178.0
30°	1114.7	1127.9	1152.5	1157.9	1142.0
32.5°	1074.9	1088.0	1115.3	1119.8	1104.3
35°	1030.6	1046.7	1071.5	1079.0	1061.5
37.5°	985.5	1001.2	1029.3	1036.0	1017.3
40°	938.8	954.3	982.0	987.5	969.5
42.5°	891.0	906.5	936.1	937.0	922.1
45°	842.2	857.2	884.7	885.4	868.0
47.5°	792.7	807.8	832.4	829.6	813.2
50°	742.6	757.0	778.5	772.9	758.1
52.5°	690.7	704.7	725.0	715.9	702.0
55°	638.6	651.5	668.5	658.8	648.0
57.5°	586.0	599.0	612.1	602.3	592.9
60°	533.0	544.4	555.1	545.1	537.9
62.5°	479.1	488.9	498.1	488.6	481.8
65°	424.6	433.2	440.8	432.0	424.8
67.5°	370.3	377.7	384.7	375.6	368.2
70°	316.1	322.4	328.9	319.5	312.6
72.5°	262.7	268.2	274.0	264.9	258.9
75°	210.7	215.5	220.2	212.1	207.4
77.5°	161.0	165.1	168.3	163.2	158.7
80°	114.9	117.9	119.8	117.8	113.5
82.5°	73.8	76.0	77.1	76.9	74.1
85°	40.1	40.9	42.8	43.2	41.8
87.5°	15.5	16.6	17.0	18.3	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)