

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: P488918

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2STD-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: P488918  
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-24-2-INS-A12125-LD4-2STD-30-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

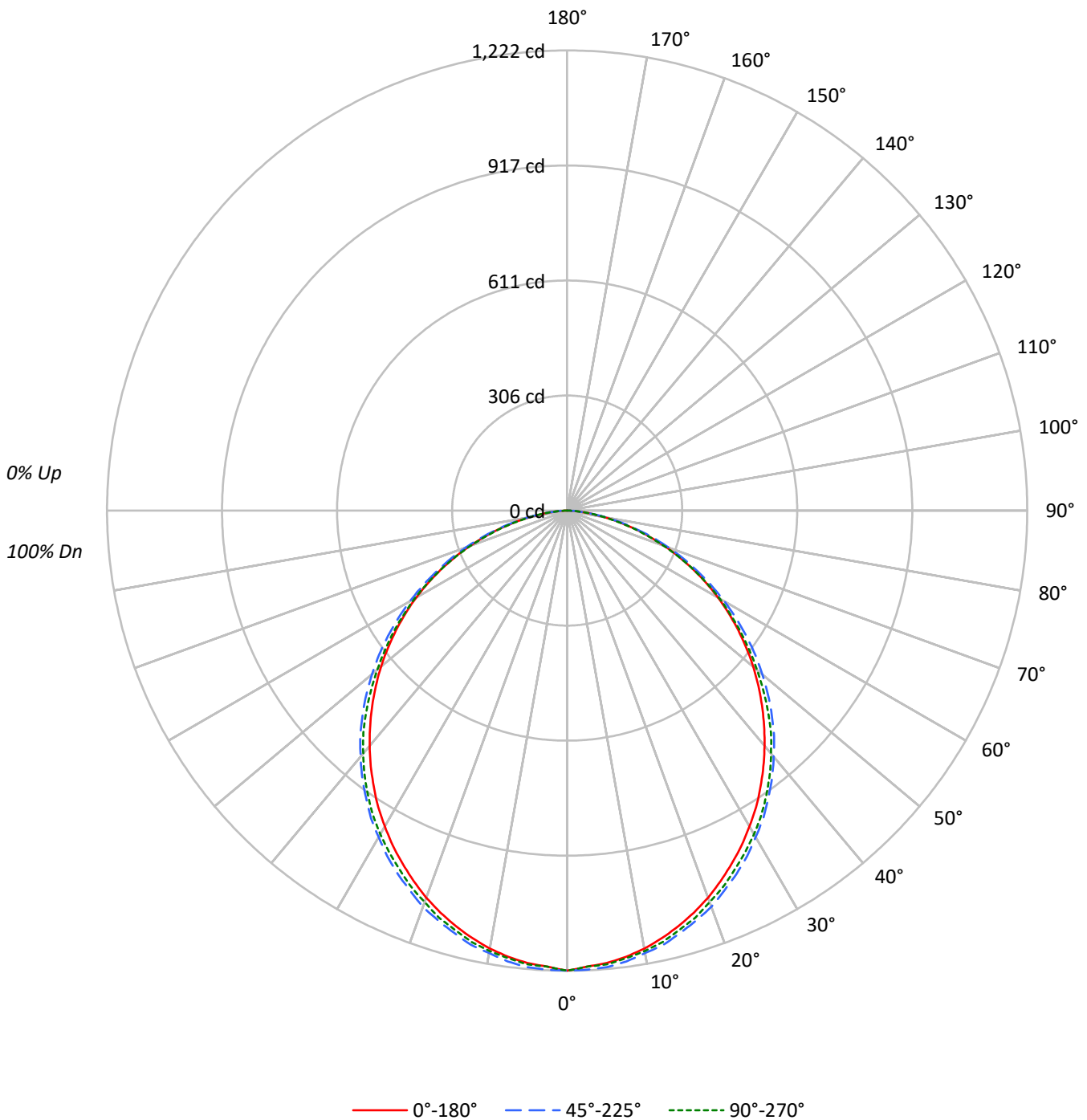
Lumens per Lamp: N/A  
Luminaire Lumens: 3212.0 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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°	3288	3288	3288
5°	3257	3288	3267
10°	3227	3260	3245
15°	3183	3234	3211
20°	3133	3207	3168
25°	3072	3161	3124
30°	3010	3112	3083
35°	2942	3058	3030
40°	2865	2997	2959
45°	2785	2925	2870
50°	2701	2832	2758
55°	2603	2725	2641
60°	2492	2596	2516
65°	2349	2439	2350
70°	2161	2249	2137
75°	1903	1989	1874
80°	1547	1613	1528
85°	1078	1149	1121



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.1	3.6
10°-20°	326.1	10.2
20°-30°	486.3	15.1
30°-40°	576.3	17.9
40°-50°	583.1	18.2
50°-60°	509.3	15.9
60°-70°	372.2	11.6
70°-80°	198.0	6.2
80°-90°	45.8	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°	927.4	28.9
0°-40°	1503.7	46.8
0°-60°	2596.1	80.8
0°-90°	3212.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3212.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1222	1222	1222	1222	1222	
5°	1206	1208	1217	1220	1210	114
15°	1142	1150	1161	1168	1153	322
25°	1034	1047	1064	1068	1052	477
35°	896	910	931	938	922	560
45°	732	745	769	769	754	565
55°	555	566	581	572	563	496
65°	369	376	383	375	369	365
75°	183	187	191	184	180	195
85°	35	36	37	38	36	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1221.7	1221.7	1221.7	1221.7	1221.7
2.5°	1212.2	1216.1	1220.2	1222.0	1212.1
5°	1205.8	1208.1	1217.1	1219.9	1209.6
7.5°	1195.4	1198.8	1207.6	1208.9	1198.9
10°	1181.1	1187.2	1193.1	1199.5	1187.4
12.5°	1162.9	1171.2	1181.1	1182.3	1173.1
15°	1142.4	1150.1	1160.9	1167.9	1152.7
17.5°	1119.5	1126.9	1140.9	1142.2	1133.0
20°	1093.9	1103.1	1119.9	1122.8	1106.4
22.5°	1064.9	1077.3	1091.3	1094.1	1082.0
25°	1034.5	1047.2	1064.5	1068.5	1052.3
27.5°	1002.7	1014.9	1034.4	1037.2	1023.5
30°	968.6	980.0	1001.4	1006.1	992.2
32.5°	933.9	945.4	969.1	973.0	959.5
35°	895.5	909.5	931.0	937.5	922.3
37.5°	856.3	869.9	894.3	900.2	883.9
40°	815.7	829.2	853.2	858.1	842.4
42.5°	774.2	787.7	813.4	814.1	801.2
45°	731.8	744.8	768.7	769.3	754.2
47.5°	688.8	701.9	723.3	720.8	706.6
50°	645.2	657.7	676.4	671.6	658.7
52.5°	600.2	612.3	630.0	622.1	610.0
55°	554.9	566.1	580.8	572.4	563.0
57.5°	509.2	520.5	531.8	523.3	515.1
60°	463.1	473.0	482.3	473.6	467.4
62.5°	416.2	424.8	432.8	424.5	418.7
65°	368.9	376.4	383.0	375.4	369.1
67.5°	321.8	328.2	334.3	326.4	319.9
70°	274.7	280.2	285.8	277.6	271.6
72.5°	228.2	233.1	238.0	230.1	224.9
75°	183.0	187.2	191.3	184.3	180.2
77.5°	139.9	143.5	146.3	141.8	137.9
80°	99.8	102.5	104.1	102.3	98.6
82.5°	64.2	66.1	67.0	66.8	64.4
85°	34.9	35.5	37.2	37.6	36.3
87.5°	13.5	14.4	14.8	15.9	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)