

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: P488924

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2STD-50-120-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: P488924  
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-50-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

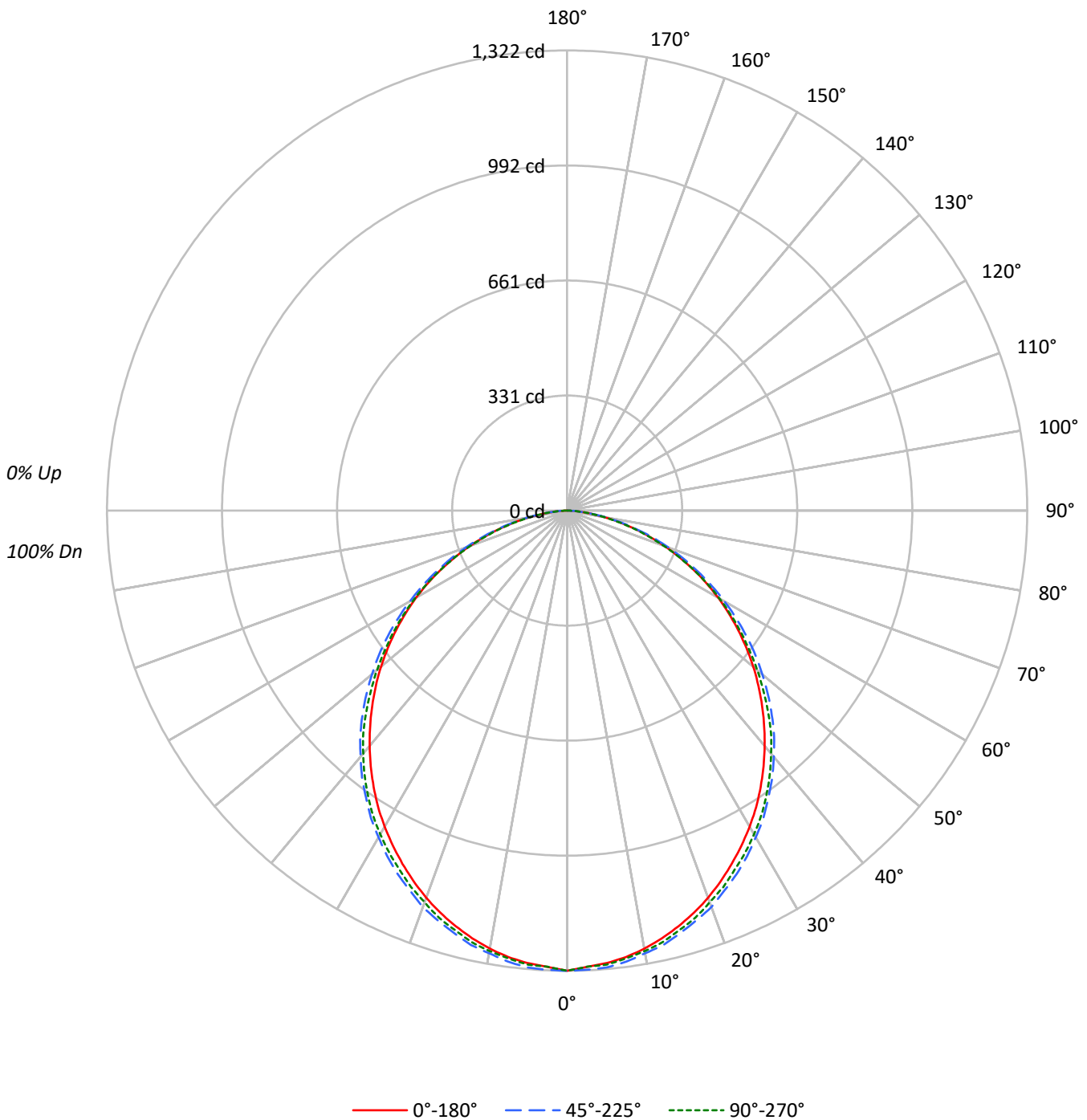
Lumens per Lamp: N/A  
Luminaire Lumens: 3476.1 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	3558	3558	3558
5°	3525	3558	3536
10°	3493	3528	3511
15°	3444	3500	3475
20°	3390	3471	3429
25°	3324	3421	3381
30°	3257	3367	3337
35°	3184	3310	3279
40°	3101	3244	3203
45°	3014	3166	3106
50°	2923	3064	2984
55°	2817	2949	2859
60°	2697	2809	2722
65°	2542	2639	2544
70°	2339	2434	2313
75°	2060	2152	2028
80°	1674	1746	1655
85°	1164	1241	1213



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.5	3.6
10°-20°	352.9	10.2
20°-30°	526.3	15.1
30°-40°	623.7	17.9
40°-50°	631.0	18.2
50°-60°	551.1	15.9
60°-70°	402.7	11.6
70°-80°	214.3	6.2
80°-90°	49.5	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°	1003.7	28.9
0°-40°	1627.3	46.8
0°-60°	2809.5	80.8
0°-90°	3476.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3476.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1322	1322	1322	1322	1322	
5°	1305	1307	1317	1320	1309	124
15°	1236	1245	1256	1264	1248	349
25°	1120	1133	1152	1156	1139	516
35°	969	984	1008	1015	998	606
45°	792	806	832	833	816	611
55°	600	613	629	620	609	537
65°	399	407	414	406	400	395
75°	198	203	207	200	195	211
85°	38	38	40	41	39	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1322.2	1322.2	1322.2	1322.2	1322.2
2.5°	1311.9	1316.1	1320.5	1322.5	1311.7
5°	1305.0	1307.4	1317.2	1320.3	1309.1
7.5°	1293.7	1297.4	1306.9	1308.3	1297.5
10°	1278.2	1284.9	1291.2	1298.1	1285.0
12.5°	1258.5	1267.5	1278.2	1279.5	1269.6
15°	1236.4	1244.6	1256.3	1263.9	1247.5
17.5°	1211.6	1219.6	1234.7	1236.1	1226.2
20°	1183.9	1193.8	1212.0	1215.1	1197.4
22.5°	1152.5	1165.8	1181.0	1184.0	1170.9
25°	1119.5	1133.3	1152.1	1156.3	1138.8
27.5°	1085.1	1098.3	1119.4	1122.4	1107.7
30°	1048.2	1060.6	1083.7	1088.8	1073.8
32.5°	1010.7	1023.1	1048.7	1053.0	1038.4
35°	969.1	984.3	1007.5	1014.6	998.2
37.5°	926.7	941.4	967.9	974.2	956.6
40°	882.7	897.3	923.4	928.6	911.7
42.5°	837.8	852.4	880.3	881.1	867.0
45°	792.0	806.0	831.9	832.6	816.2
47.5°	745.4	759.6	782.7	780.1	764.7
50°	698.3	711.8	732.0	726.8	712.9
52.5°	649.5	662.6	681.8	673.2	660.1
55°	600.5	612.6	628.6	619.5	609.3
57.5°	551.0	563.3	575.5	566.3	557.5
60°	501.2	511.9	522.0	512.6	505.8
62.5°	450.5	459.7	468.4	459.4	453.1
65°	399.2	407.3	414.5	406.2	399.5
67.5°	348.2	355.1	361.7	353.2	346.2
70°	297.3	303.2	309.3	300.4	294.0
72.5°	247.0	252.2	257.6	249.1	243.4
75°	198.1	202.6	207.0	199.5	195.1
77.5°	151.4	155.3	158.3	153.5	149.2
80°	108.0	110.9	112.7	110.8	106.8
82.5°	69.4	71.5	72.5	72.3	69.7
85°	37.7	38.4	40.2	40.6	39.3
87.5°	14.6	15.6	16.0	17.2	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)