

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: P488950

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3STD-20-120-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: P488950  
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-LD4-3STD-20-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

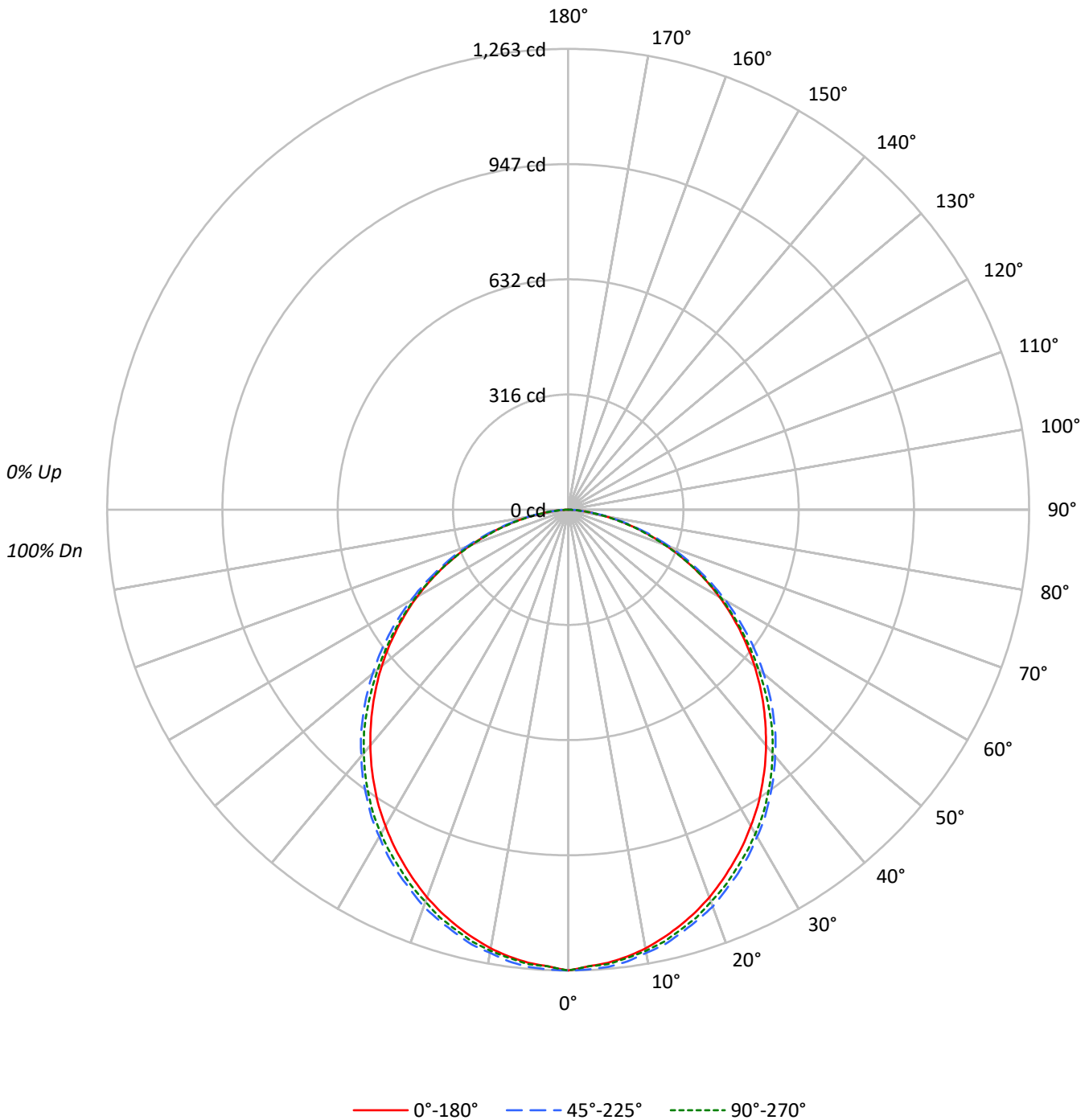
Lumens per Lamp: N/A  
Luminaire Lumens: 3320.0 lumens  
Efficiency: N/A  
Efficacy: 66.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 50  
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°	3398	3398	3398
5°	3367	3398	3377
10°	3336	3370	3354
15°	3290	3343	3319
20°	3238	3315	3275
25°	3175	3267	3230
30°	3111	3216	3187
35°	3041	3161	3132
40°	2962	3098	3059
45°	2879	3024	2967
50°	2792	2927	2851
55°	2691	2817	2730
60°	2576	2683	2600
65°	2428	2521	2430
70°	2234	2324	2209
75°	1967	2056	1937
80°	1599	1667	1581
85°	1115	1186	1158



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.9	3.6
10°-20°	337.0	10.2
20°-30°	502.7	15.1
30°-40°	595.7	17.9
40°-50°	602.7	18.2
50°-60°	526.4	15.9
60°-70°	384.7	11.6
70°-80°	204.7	6.2
80°-90°	47.3	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°	958.6	28.9
0°-40°	1554.3	46.8
0°-60°	2683.4	80.8
0°-90°	3320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3320.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1263	1263	1263	1263	1263	
5°	1246	1249	1258	1261	1250	118
15°	1181	1189	1200	1207	1192	333
25°	1069	1082	1100	1104	1088	493
35°	926	940	962	969	953	579
45°	756	770	795	795	780	584
55°	574	585	600	592	582	513
65°	381	389	396	388	382	377
75°	189	194	198	190	186	201
85°	36	37	38	39	38	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1262.8	1262.8	1262.8	1262.8	1262.8
2.5°	1252.9	1257.0	1261.2	1263.1	1252.8
5°	1246.4	1248.7	1258.1	1261.0	1250.3
7.5°	1235.6	1239.1	1248.2	1249.5	1239.3
10°	1220.8	1227.2	1233.2	1239.8	1227.3
12.5°	1202.0	1210.6	1220.8	1222.0	1212.6
15°	1180.8	1188.7	1199.9	1207.2	1191.5
17.5°	1157.2	1164.8	1179.3	1180.6	1171.1
20°	1130.7	1140.2	1157.6	1160.6	1143.6
22.5°	1100.7	1113.5	1128.0	1130.8	1118.3
25°	1069.3	1082.4	1100.3	1104.4	1087.7
27.5°	1036.4	1049.0	1069.1	1072.0	1058.0
30°	1001.1	1013.0	1035.1	1039.9	1025.6
32.5°	965.3	977.2	1001.6	1005.7	991.8
35°	925.6	940.1	962.3	969.0	953.4
37.5°	885.1	899.2	924.4	930.5	913.6
40°	843.1	857.0	881.9	886.9	870.7
42.5°	800.2	814.2	840.7	841.5	828.1
45°	756.4	769.8	794.6	795.2	779.6
47.5°	711.9	725.5	747.6	745.1	730.3
50°	666.9	679.8	699.2	694.2	680.9
52.5°	620.4	632.9	651.1	643.0	630.5
55°	573.5	585.1	600.4	591.7	581.9
57.5°	526.3	538.0	549.7	540.9	532.5
60°	478.7	488.9	498.5	489.6	483.1
62.5°	430.2	439.0	447.3	438.8	432.7
65°	381.3	389.1	395.9	388.0	381.6
67.5°	332.6	339.2	345.5	337.3	330.6
70°	283.9	289.6	295.4	287.0	280.8
72.5°	235.9	240.9	246.0	237.9	232.5
75°	189.2	193.5	197.7	190.5	186.3
77.5°	144.6	148.3	151.2	146.6	142.5
80°	103.2	105.9	107.6	105.8	102.0
82.5°	66.3	68.3	69.2	69.1	66.6
85°	36.1	36.7	38.4	38.8	37.5
87.5°	13.9	14.9	15.3	16.4	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)