

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: P488944

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3LO-35-120-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: P488944  
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-LD4-3LO-35-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

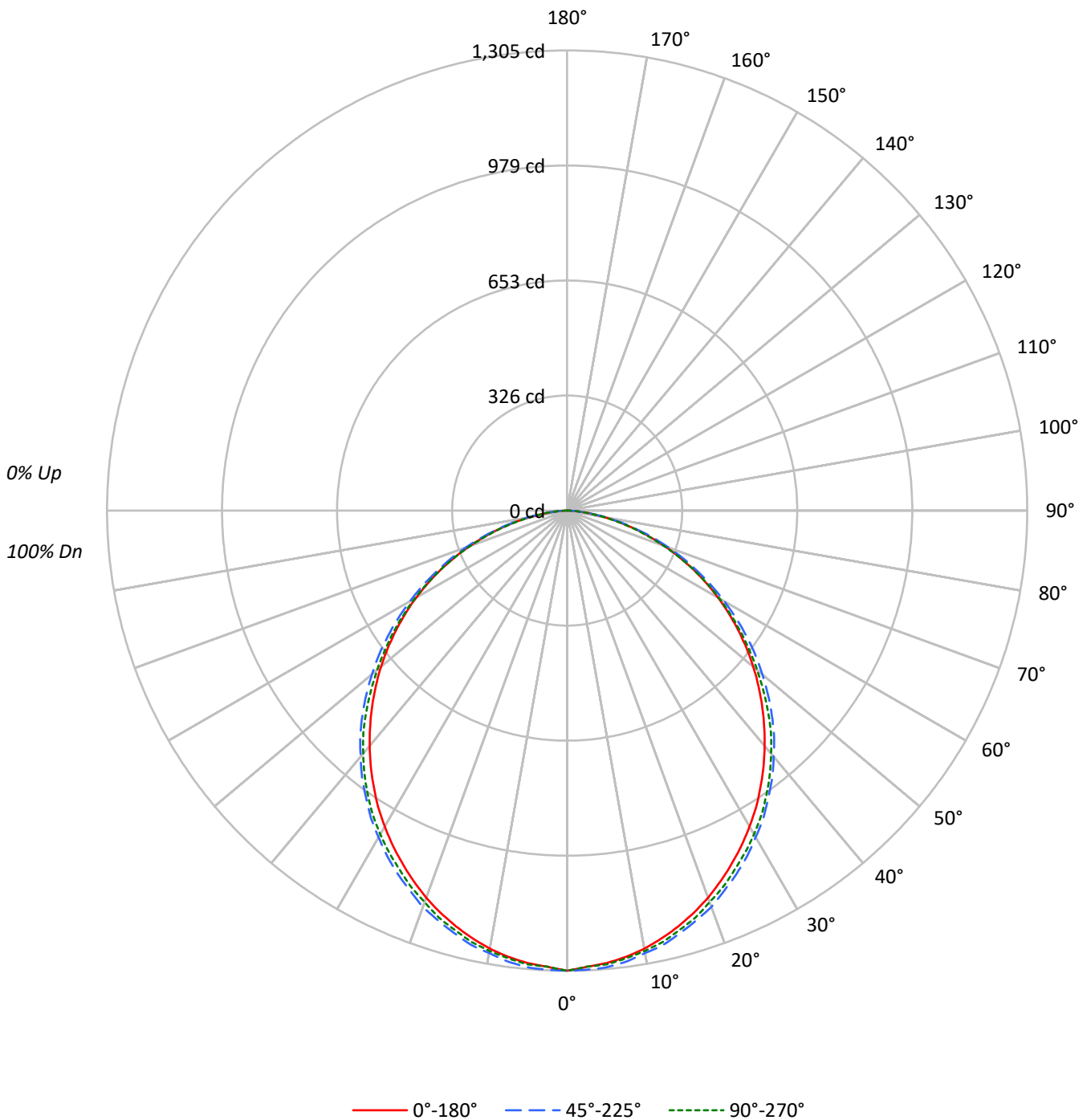
Lumens per Lamp: N/A  
Luminaire Lumens: 3430.8 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.1  
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°	3512	3512	3512
5°	3479	3512	3490
10°	3447	3482	3465
15°	3400	3455	3430
20°	3346	3426	3384
25°	3281	3376	3337
30°	3214	3324	3293
35°	3142	3267	3236
40°	3060	3201	3161
45°	2974	3125	3066
50°	2885	3025	2946
55°	2781	2911	2822
60°	2662	2773	2687
65°	2509	2605	2511
70°	2308	2401	2282
75°	2033	2124	2001
80°	1652	1723	1633
85°	1152	1226	1195



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.9	3.6
10°-20°	348.3	10.2
20°-30°	519.4	15.1
30°-40°	615.5	17.9
40°-50°	622.8	18.2
50°-60°	543.9	15.9
60°-70°	397.5	11.6
70°-80°	211.5	6.2
80°-90°	48.9	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°	990.6	28.9
0°-40°	1606.2	46.8
0°-60°	2772.9	80.8
0°-90°	3430.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3430.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1288	1290	1300	1303	1292	122
15°	1220	1228	1240	1247	1231	344
25°	1105	1119	1137	1141	1124	509
35°	956	971	994	1001	985	598
45°	782	796	821	822	806	603
55°	593	605	620	611	601	530
65°	394	402	409	401	394	390
75°	196	200	204	197	192	208
85°	37	38	40	40	39	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1305.0	1305.0	1305.0	1305.0	1305.0
2.5°	1294.8	1299.0	1303.3	1305.2	1294.6
5°	1288.0	1290.4	1300.1	1303.1	1292.0
7.5°	1276.8	1280.5	1289.9	1291.2	1280.6
10°	1261.6	1268.1	1274.4	1281.2	1268.2
12.5°	1242.1	1251.0	1261.6	1262.8	1253.0
15°	1220.3	1228.4	1240.0	1247.4	1231.3
17.5°	1195.8	1203.7	1218.6	1220.0	1210.2
20°	1168.4	1178.2	1196.2	1199.3	1181.8
22.5°	1137.5	1150.6	1165.6	1168.6	1155.7
25°	1105.0	1118.6	1137.0	1141.3	1124.0
27.5°	1071.0	1084.0	1104.8	1107.8	1093.3
30°	1034.5	1046.8	1069.6	1074.6	1059.8
32.5°	997.5	1009.8	1035.1	1039.3	1024.9
35°	956.5	971.4	994.4	1001.4	985.2
37.5°	914.6	929.2	955.3	961.5	944.1
40°	871.2	885.7	911.3	916.5	899.8
42.5°	826.9	841.3	868.8	869.6	855.7
45°	781.6	795.5	821.1	821.7	805.6
47.5°	735.7	749.7	772.5	769.9	754.7
50°	689.2	702.5	722.5	717.3	703.6
52.5°	641.1	654.0	672.9	664.4	651.5
55°	592.7	604.6	620.4	611.4	601.4
57.5°	543.8	555.9	568.0	558.9	550.2
60°	494.6	505.2	515.2	505.9	499.2
62.5°	444.6	453.7	462.3	453.4	447.2
65°	394.0	402.0	409.1	400.9	394.3
67.5°	343.7	350.5	357.0	348.6	341.7
70°	293.4	299.3	305.2	296.5	290.1
72.5°	243.8	248.9	254.2	245.8	240.2
75°	195.5	200.0	204.3	196.9	192.5
77.5°	149.4	153.2	156.2	151.5	147.2
80°	106.6	109.4	111.2	109.3	105.4
82.5°	68.5	70.6	71.5	71.4	68.8
85°	37.3	37.9	39.7	40.1	38.7
87.5°	14.4	15.4	15.8	17.0	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)