

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: P488874

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1LO-40-120-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: P488874  
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-LD4-1LO-40-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

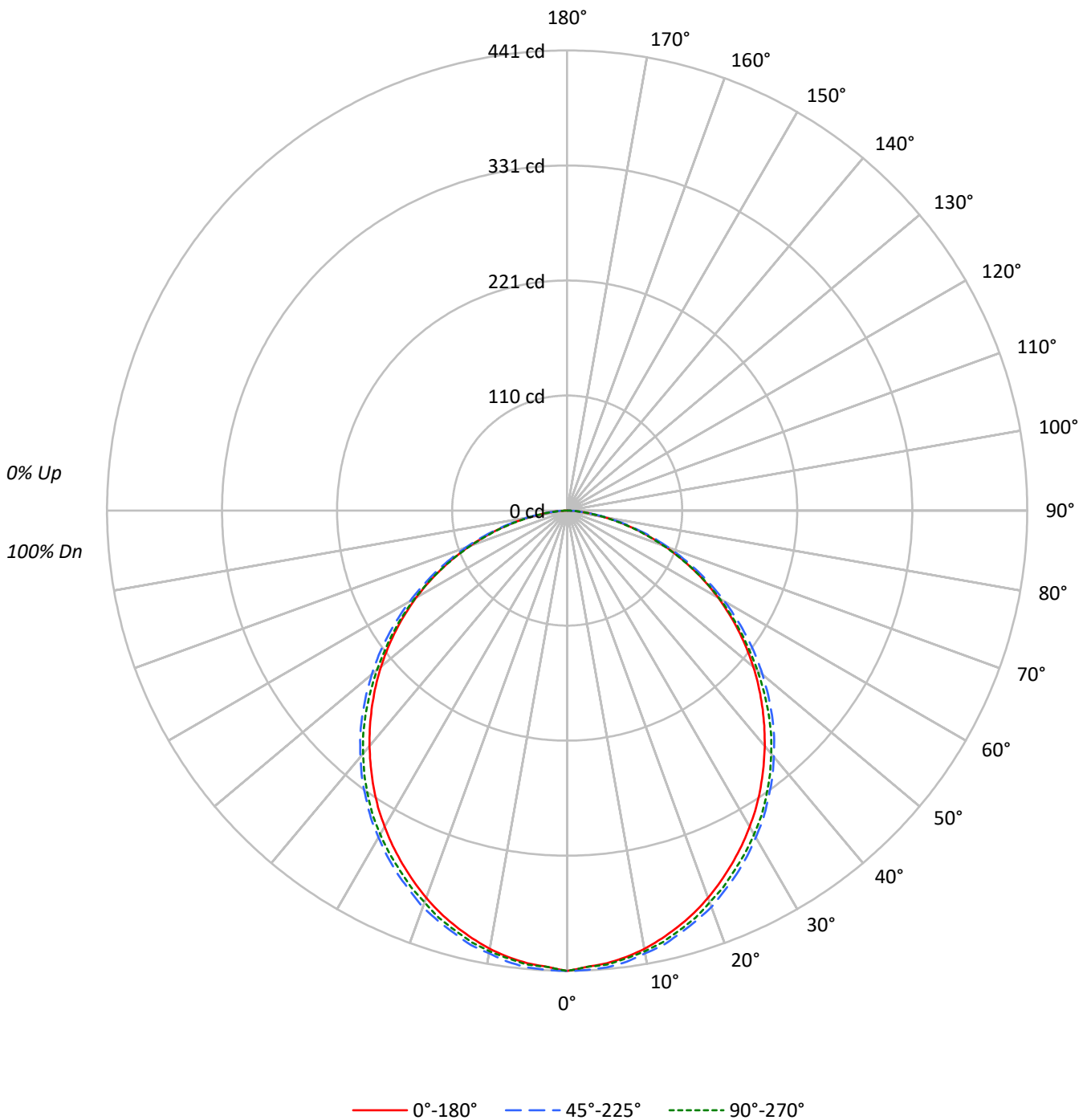
Lumens per Lamp: N/A  
Luminaire Lumens: 1159.9 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.7  
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°	1187	1187	1187
5°	1176	1187	1180
10°	1165	1177	1172
15°	1149	1168	1160
20°	1131	1158	1144
25°	1109	1141	1128
30°	1087	1124	1113
35°	1062	1104	1094
40°	1035	1082	1069
45°	1006	1056	1037
50°	975	1023	996
55°	940	984	954
60°	900	938	908
65°	848	881	849
70°	780	812	772
75°	687	718	677
80°	558	583	552
85°	389	414	404



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.5	3.6
10°-20°	117.7	10.2
20°-30°	175.6	15.1
30°-40°	208.1	17.9
40°-50°	210.6	18.2
50°-60°	183.9	15.9
60°-70°	134.4	11.6
70°-80°	71.5	6.2
80°-90°	16.5	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°	334.9	28.9
0°-40°	543.0	46.8
0°-60°	937.5	80.8
0°-90°	1159.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1159.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	441	441	441	441	441	
5°	435	436	440	440	437	41
15°	412	415	419	422	416	116
25°	374	378	384	386	380	172
35°	323	328	336	338	333	202
45°	264	269	278	278	272	204
55°	200	204	210	207	203	179
65°	133	136	138	136	133	132
75°	66	68	69	67	65	70
85°	13	13	13	14	13	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	441.2	441.2	441.2	441.2	441.2
2.5°	437.7	439.2	440.6	441.3	437.7
5°	435.4	436.3	439.5	440.5	436.8
7.5°	431.7	432.9	436.1	436.5	433.0
10°	426.5	428.7	430.8	433.1	428.8
12.5°	419.9	422.9	426.5	426.9	423.6
15°	412.5	415.3	419.2	421.7	416.3
17.5°	404.3	406.9	412.0	412.5	409.1
20°	395.0	398.3	404.4	405.5	399.5
22.5°	384.6	389.0	394.1	395.1	390.7
25°	373.6	378.2	384.4	385.8	380.0
27.5°	362.1	366.5	373.5	374.5	369.6
30°	349.8	353.9	361.6	363.3	358.3
32.5°	337.3	341.4	349.9	351.4	346.5
35°	323.4	328.4	336.2	338.5	333.1
37.5°	309.2	314.1	323.0	325.1	319.2
40°	294.6	299.4	308.1	309.9	304.2
42.5°	279.6	284.4	293.7	294.0	289.3
45°	264.3	268.9	277.6	277.8	272.4
47.5°	248.7	253.5	261.2	260.3	255.2
50°	233.0	237.5	244.3	242.5	237.9
52.5°	216.7	221.1	227.5	224.6	220.3
55°	200.4	204.4	209.7	206.7	203.3
57.5°	183.9	188.0	192.0	189.0	186.0
60°	167.2	170.8	174.2	171.0	168.8
62.5°	150.3	153.4	156.3	153.3	151.2
65°	133.2	135.9	138.3	135.6	133.3
67.5°	116.2	118.5	120.7	117.9	115.5
70°	99.2	101.2	103.2	100.3	98.1
72.5°	82.4	84.2	86.0	83.1	81.2
75°	66.1	67.6	69.1	66.6	65.1
77.5°	50.5	51.8	52.8	51.2	49.8
80°	36.0	37.0	37.6	37.0	35.6
82.5°	23.2	23.9	24.2	24.1	23.3
85°	12.6	12.8	13.4	13.6	13.1
87.5°	4.9	5.2	5.3	5.7	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)