

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: P488864

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1HI-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: P488864  
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-LD4-1HI-50-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

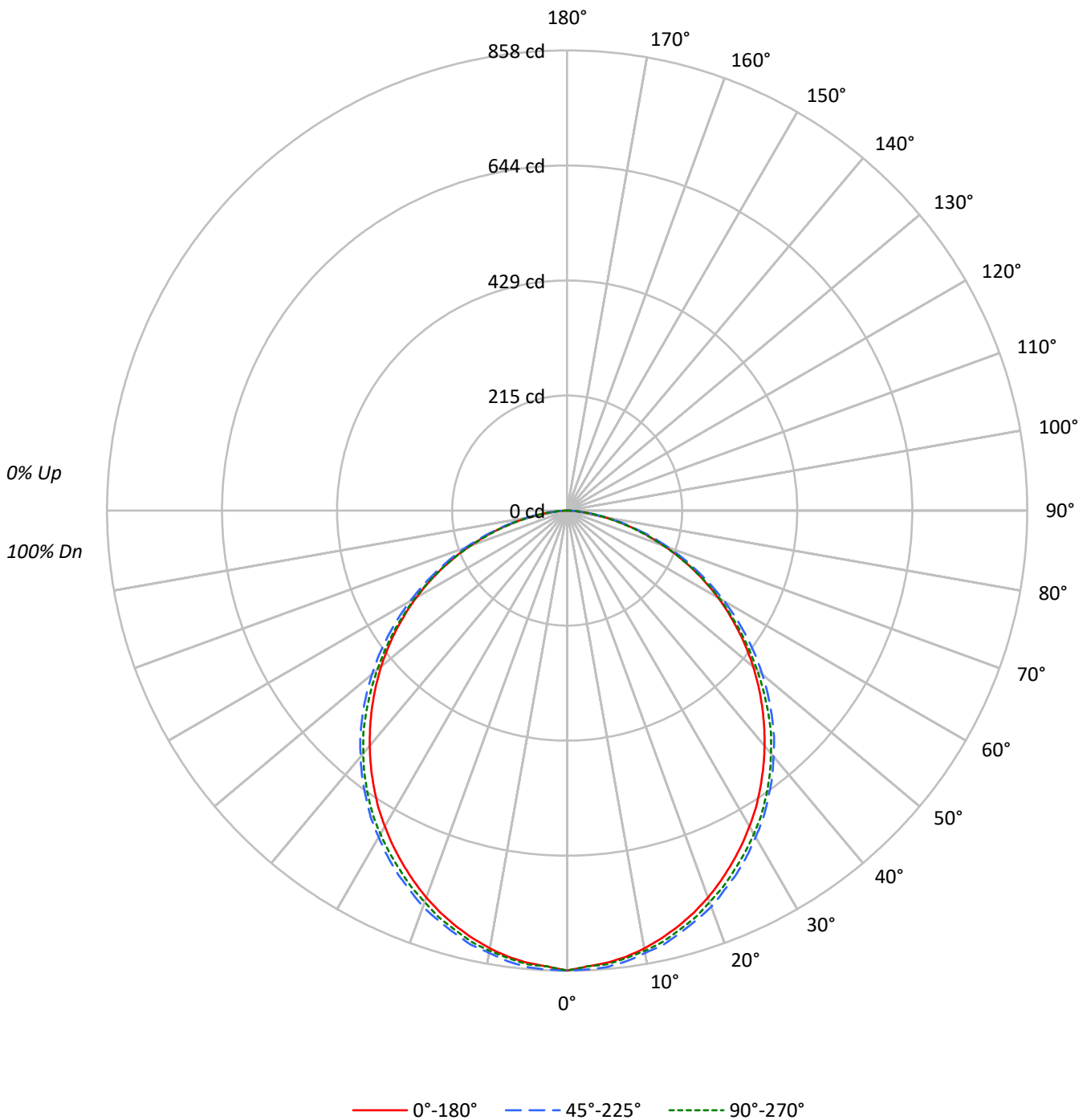
Lumens per Lamp: N/A  
Luminaire Lumens: 2254.8 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.6  
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°	2308	2308	2308
5°	2287	2308	2294
10°	2266	2288	2278
15°	2234	2270	2254
20°	2199	2251	2224
25°	2156	2219	2193
30°	2113	2184	2164
35°	2065	2147	2127
40°	2011	2104	2077
45°	1955	2054	2015
50°	1896	1988	1936
55°	1827	1913	1854
60°	1750	1822	1766
65°	1649	1712	1650
70°	1517	1578	1500
75°	1336	1396	1315
80°	1086	1133	1074
85°	756	806	787



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.8	3.6
10°-20°	228.9	10.2
20°-30°	341.4	15.1
30°-40°	404.6	17.9
40°-50°	409.3	18.2
50°-60°	357.5	15.9
60°-70°	261.2	11.6
70°-80°	139.0	6.2
80°-90°	32.1	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°	651.1	28.9
0°-40°	1055.6	46.8
0°-60°	1822.4	80.8
0°-90°	2254.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2254.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	858	858	858	858	858	
5°	846	848	854	856	849	80
15°	802	807	815	820	809	226
25°	726	735	747	750	739	335
35°	629	638	654	658	648	393
45°	514	523	540	540	529	396
55°	390	397	408	402	395	348
65°	259	264	269	264	259	256
75°	128	131	134	129	126	137
85°	24	25	26	26	26	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	857.6	857.6	857.6	857.6	857.6
2.5°	850.9	853.7	856.6	857.8	850.9
5°	846.5	848.1	854.4	856.4	849.2
7.5°	839.1	841.6	847.7	848.6	841.7
10°	829.1	833.4	837.5	842.0	833.5
12.5°	816.4	822.2	829.1	829.9	823.5
15°	802.0	807.3	814.9	819.8	809.2
17.5°	785.9	791.1	800.9	801.8	795.4
20°	767.9	774.4	786.2	788.2	776.7
22.5°	747.6	756.2	766.1	768.0	759.5
25°	726.2	735.1	747.3	750.1	738.7
27.5°	703.9	712.4	726.1	728.1	718.5
30°	679.9	688.0	703.0	706.3	696.5
32.5°	655.6	663.7	680.3	683.0	673.6
35°	628.6	638.5	653.6	658.1	647.5
37.5°	601.1	610.7	627.8	631.9	620.5
40°	572.6	582.1	599.0	602.4	591.4
42.5°	543.5	552.9	571.0	571.5	562.4
45°	513.7	522.8	539.6	540.1	529.4
47.5°	483.5	492.7	507.7	506.0	496.0
50°	452.9	461.7	474.8	471.4	462.4
52.5°	421.3	429.8	442.2	436.7	428.2
55°	389.5	397.4	407.7	401.8	395.2
57.5°	357.4	365.4	373.3	367.3	361.6
60°	325.1	332.0	338.6	332.5	328.1
62.5°	292.2	298.2	303.8	298.0	293.9
65°	259.0	264.2	268.9	263.5	259.1
67.5°	225.9	230.4	234.7	229.1	224.6
70°	192.8	196.7	200.6	194.9	190.7
72.5°	160.2	163.6	167.1	161.6	157.9
75°	128.5	131.4	134.3	129.4	126.5
77.5°	98.2	100.7	102.7	99.5	96.8
80°	70.1	71.9	73.1	71.8	69.3
82.5°	45.0	46.4	47.0	46.9	45.2
85°	24.5	24.9	26.1	26.4	25.5
87.5°	9.5	10.1	10.4	11.2	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)