

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: P488857

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1HI-27-120-EDD**

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: P488857  
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-27-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

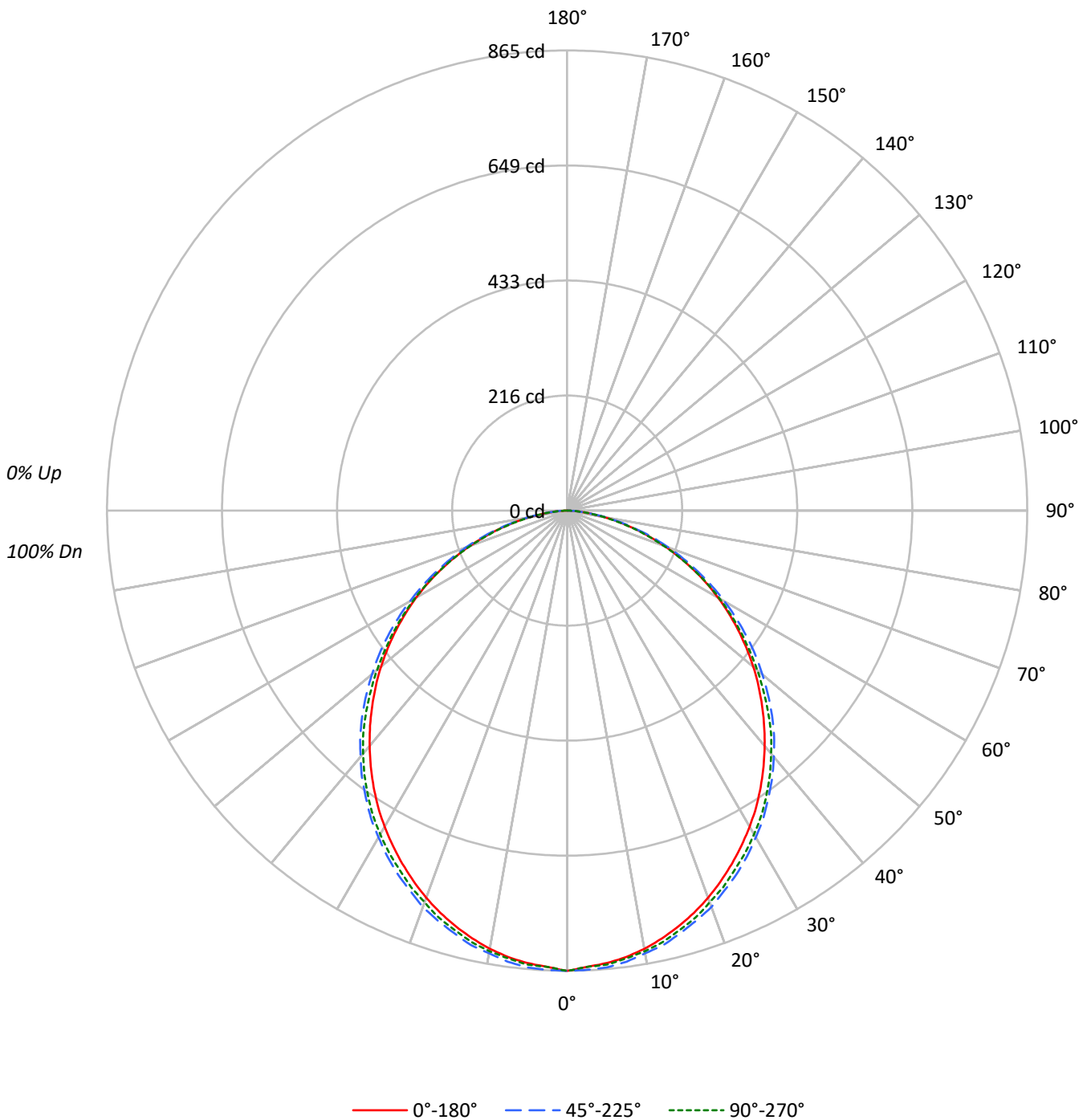
Lumens per Lamp: N/A  
Luminaire Lumens: 2274.7 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	2328	2328	2328
5°	2307	2328	2314
10°	2286	2309	2298
15°	2254	2290	2274
20°	2218	2271	2244
25°	2175	2238	2213
30°	2131	2204	2183
35°	2083	2166	2146
40°	2029	2122	2096
45°	1972	2072	2033
50°	1913	2005	1953
55°	1843	1930	1871
60°	1765	1838	1781
65°	1663	1727	1664
70°	1530	1592	1514
75°	1347	1409	1327
80°	1096	1142	1083
85°	763	812	794



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.5	3.6
10°-20°	230.9	10.2
20°-30°	344.4	15.1
30°-40°	408.1	17.9
40°-50°	412.9	18.2
50°-60°	360.6	15.9
60°-70°	263.5	11.6
70°-80°	140.2	6.2
80°-90°	32.4	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°	656.8	28.9
0°-40°	1064.9	46.8
0°-60°	1838.5	80.8
0°-90°	2274.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2274.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	865	865	865	865	865	
5°	854	856	862	864	857	81
15°	809	814	822	827	816	228
25°	733	742	754	757	745	338
35°	634	644	659	664	653	397
45°	518	527	544	545	534	400
55°	393	401	411	405	399	351
65°	261	267	271	266	261	259
75°	130	133	136	130	128	138
85°	25	25	26	27	26	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	865.2	865.2	865.2	865.2	865.2
2.5°	858.5	861.2	864.1	865.4	858.4
5°	853.9	855.6	862.0	864.0	856.7
7.5°	846.6	849.0	855.2	856.1	849.1
10°	836.5	840.8	844.9	849.4	840.9
12.5°	823.6	829.4	836.5	837.3	830.8
15°	809.1	814.5	822.1	827.1	816.4
17.5°	792.8	798.1	808.0	808.9	802.4
20°	774.7	781.2	793.1	795.2	783.5
22.5°	754.2	762.9	772.8	774.8	766.2
25°	732.6	741.6	753.9	756.7	745.2
27.5°	710.1	718.7	732.5	734.5	724.9
30°	685.9	694.0	709.2	712.5	702.7
32.5°	661.4	669.5	686.3	689.1	679.5
35°	634.2	644.1	659.3	663.9	653.2
37.5°	606.4	616.1	633.4	637.5	626.0
40°	577.7	587.2	604.2	607.7	596.6
42.5°	548.3	557.8	576.0	576.6	567.4
45°	518.2	527.4	544.4	544.8	534.1
47.5°	487.8	497.1	512.2	510.5	500.4
50°	456.9	465.8	479.0	475.6	466.5
52.5°	425.0	433.6	446.1	440.5	432.0
55°	392.9	400.9	411.3	405.4	398.7
57.5°	360.6	368.6	376.6	370.6	364.8
60°	327.9	335.0	341.6	335.4	331.0
62.5°	294.8	300.8	306.5	300.6	296.5
65°	261.2	266.6	271.2	265.8	261.4
67.5°	227.9	232.4	236.7	231.1	226.5
70°	194.5	198.4	202.4	196.6	192.4
72.5°	161.6	165.1	168.6	163.0	159.3
75°	129.6	132.6	135.5	130.5	127.6
77.5°	99.1	101.6	103.6	100.4	97.6
80°	70.7	72.6	73.7	72.5	69.9
82.5°	45.4	46.8	47.4	47.3	45.6
85°	24.7	25.2	26.3	26.6	25.7
87.5°	9.6	10.2	10.5	11.3	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)