

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: P488858

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1HI-30-120-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: P488858
 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-30-120-EDD-90
 Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
 Light Source: -
 Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

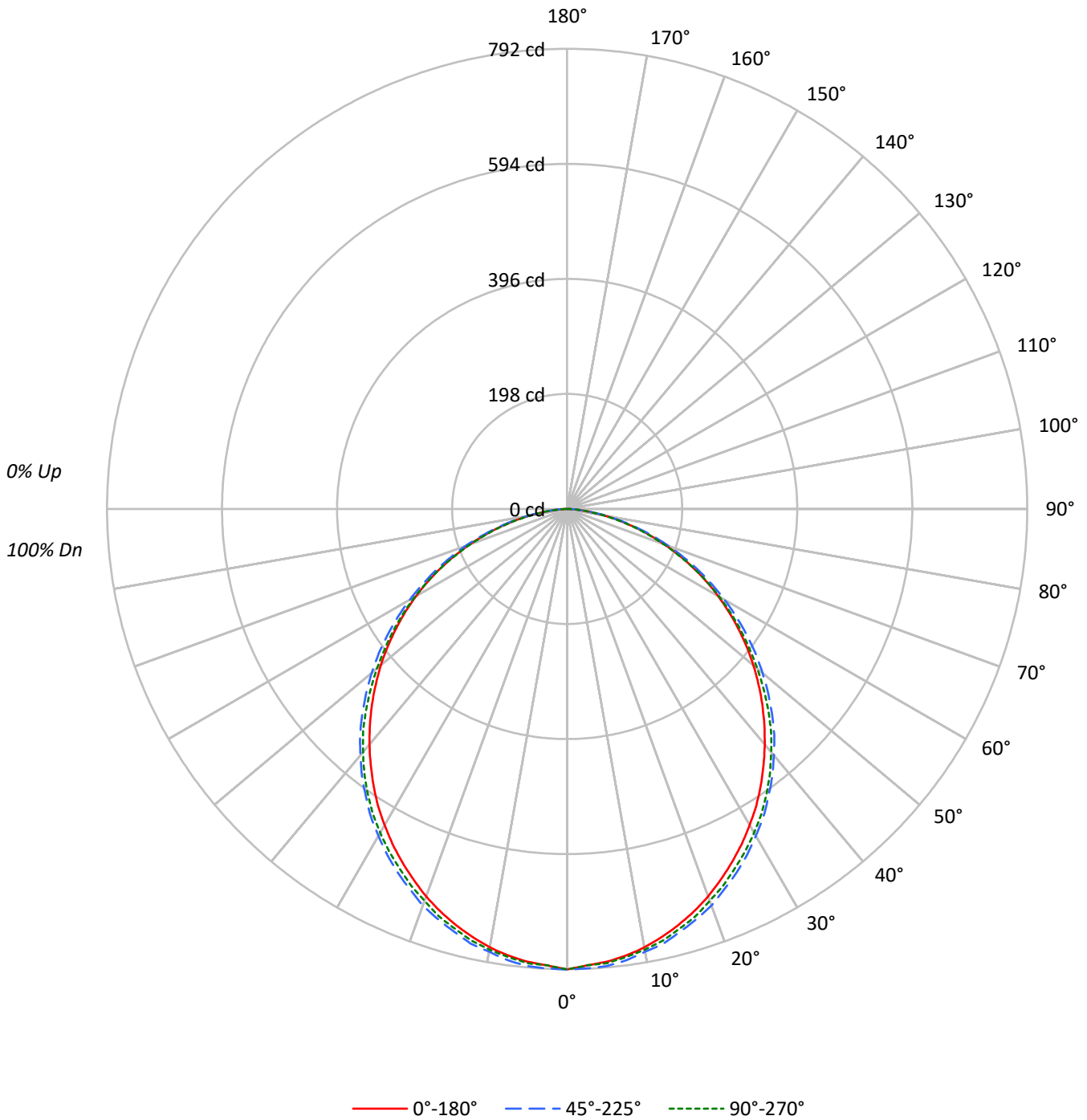
Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 2083.5 lumens
 Efficiency: N/A
 Efficacy: 96.5 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	50	30	10
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°	2133	2133	2133
5°	2113	2133	2119
10°	2094	2115	2105
15°	2064	2098	2083
20°	2032	2080	2055
25°	1992	2050	2027
30°	1952	2018	2000
35°	1908	1984	1965
40°	1859	1944	1919
45°	1807	1897	1862
50°	1752	1837	1789
55°	1688	1768	1713
60°	1617	1684	1632
65°	1524	1582	1524
70°	1402	1459	1386
75°	1234	1290	1215
80°	1003	1046	992
85°	698	744	726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	3.6
10°-20°	211.5	10.2
20°-30°	315.5	15.1
30°-40°	373.8	17.9
40°-50°	378.2	18.2
50°-60°	330.3	15.9
60°-70°	241.4	11.6
70°-80°	128.5	6.2
80°-90°	29.7	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°	601.6	28.9
0°-40°	975.4	46.8
0°-60°	1684.0	80.8
0°-90°	2083.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2083.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	792	792	792	792	792	
5°	782	784	790	791	785	74
15°	741	746	753	758	748	209
25°	671	679	690	693	683	309
35°	581	590	604	608	598	363
45°	475	483	499	499	489	366
55°	360	367	377	371	365	322
65°	239	244	248	244	239	237
75°	119	122	124	120	117	126
85°	23	23	24	24	24	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	792.5	792.5	792.5	792.5	792.5
2.5°	786.3	788.9	791.5	792.7	786.2
5°	782.2	783.7	789.5	791.3	784.6
7.5°	775.4	777.6	783.3	784.1	777.7
10°	766.2	770.1	773.9	778.0	770.2
12.5°	754.3	759.7	766.2	766.9	760.9
15°	741.0	746.0	753.0	757.6	747.7
17.5°	726.2	731.0	740.1	740.9	734.9
20°	709.6	715.5	726.4	728.3	717.7
22.5°	690.8	698.8	707.9	709.7	701.8
25°	671.0	679.3	690.5	693.1	682.6
27.5°	650.4	658.3	670.9	672.8	663.9
30°	628.3	635.7	649.6	652.6	643.6
32.5°	605.8	613.2	628.6	631.2	622.4
35°	580.9	589.9	603.9	608.1	598.3
37.5°	555.4	564.3	580.1	583.9	573.4
40°	529.1	537.8	553.5	556.6	546.4
42.5°	502.2	510.9	527.6	528.1	519.7
45°	474.7	483.1	498.6	499.0	489.2
47.5°	446.8	455.3	469.2	467.6	458.3
50°	418.5	426.6	438.8	435.6	427.3
52.5°	389.3	397.2	408.6	403.5	395.7
55°	359.9	367.2	376.8	371.3	365.2
57.5°	330.3	337.6	345.0	339.4	334.2
60°	300.4	306.8	312.9	307.2	303.2
62.5°	270.0	275.5	280.7	275.4	271.6
65°	239.3	244.2	248.4	243.5	239.4
67.5°	208.7	212.9	216.8	211.7	207.5
70°	178.2	181.7	185.4	180.1	176.2
72.5°	148.0	151.2	154.4	149.3	145.9
75°	118.7	121.5	124.1	119.6	116.9
77.5°	90.7	93.1	94.9	92.0	89.4
80°	64.7	66.5	67.5	66.4	64.0
82.5°	41.6	42.9	43.4	43.3	41.8
85°	22.6	23.0	24.1	24.4	23.5
87.5°	8.8	9.3	9.6	10.3	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)