

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: P488549

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1LO-35-120-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: P488549
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-12-4-INS-A12125-LD4-1LO-35-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

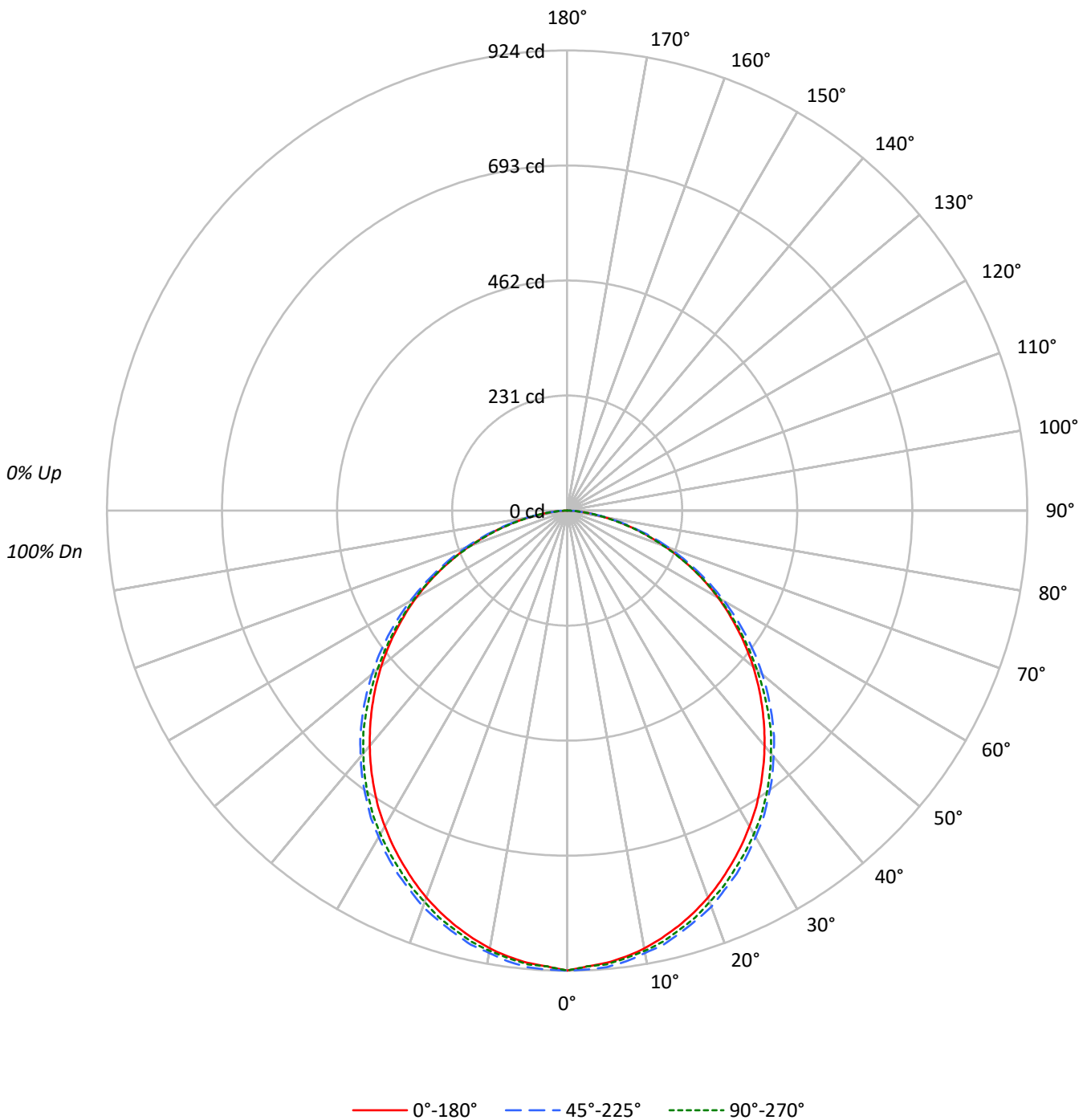
Lumens per Lamp: N/A
Luminaire Lumens: 2428.1 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	2485	2485	2485
5°	2462	2485	2470
10°	2440	2464	2453
15°	2406	2445	2428
20°	2368	2424	2395
25°	2322	2389	2362
30°	2275	2352	2331
35°	2224	2312	2290
40°	2166	2266	2237
45°	2105	2211	2170
50°	2042	2141	2085
55°	1968	2060	1997
60°	1884	1962	1901
65°	1776	1843	1777
70°	1634	1699	1615
75°	1439	1503	1417
80°	1168	1220	1156
85°	815	868	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	3.6
10°-20°	246.5	10.2
20°-30°	367.6	15.1
30°-40°	435.6	17.9
40°-50°	440.8	18.2
50°-60°	385.0	15.9
60°-70°	281.3	11.6
70°-80°	149.7	6.2
80°-90°	34.6	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°	701.1	28.9
0°-40°	1136.7	46.8
0°-60°	1962.5	80.8
0°-90°	2428.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2428.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	912	913	920	922	914	86
15°	864	869	878	883	871	243
25°	782	792	805	808	796	360
35°	677	688	704	709	697	423
45°	553	563	581	582	570	427
55°	419	428	439	433	426	375
65°	279	284	290	284	279	276
75°	138	142	145	139	136	147
85°	26	27	28	28	27	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	923.6	923.6	923.6	923.6	923.6
2.5°	916.3	919.3	922.4	923.8	916.2
5°	911.5	913.3	920.1	922.2	914.4
7.5°	903.6	906.2	912.9	913.8	906.3
10°	892.9	897.5	901.9	906.7	897.6
12.5°	879.1	885.4	892.9	893.7	886.8
15°	863.6	869.4	877.6	882.9	871.4
17.5°	846.3	851.9	862.5	863.4	856.5
20°	827.0	833.9	846.6	848.8	836.4
22.5°	805.0	814.3	824.9	827.0	817.9
25°	782.0	791.6	804.7	807.7	795.5
27.5°	758.0	767.2	781.9	784.0	773.7
30°	732.2	740.8	757.0	760.6	750.1
32.5°	706.0	714.7	732.6	735.5	725.3
35°	676.9	687.5	703.8	708.7	697.2
37.5°	647.3	657.6	676.1	680.5	668.2
40°	616.6	626.8	645.0	648.6	636.8
42.5°	585.2	595.4	614.9	615.5	605.6
45°	553.2	563.0	581.1	581.6	570.1
47.5°	520.7	530.6	546.7	544.9	534.1
50°	487.8	497.2	511.3	507.7	498.0
52.5°	453.7	462.8	476.2	470.2	461.1
55°	419.4	427.9	439.1	432.7	425.6
57.5°	384.9	393.5	402.0	395.6	389.4
60°	350.1	357.6	364.6	358.1	353.3
62.5°	314.7	321.1	327.2	320.9	316.5
65°	278.9	284.5	289.5	283.8	279.1
67.5°	243.3	248.1	252.7	246.7	241.8
70°	207.7	211.8	216.0	209.9	205.3
72.5°	172.5	176.2	179.9	174.0	170.0
75°	138.4	141.5	144.6	139.3	136.3
77.5°	105.8	108.4	110.6	107.2	104.2
80°	75.4	77.5	78.7	77.4	74.6
82.5°	48.5	49.9	50.6	50.5	48.7
85°	26.4	26.8	28.1	28.4	27.4
87.5°	10.2	10.9	11.2	12.0	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)