

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: P488627

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3STD-20-120-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: P488627
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-LD4-3STD-20-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

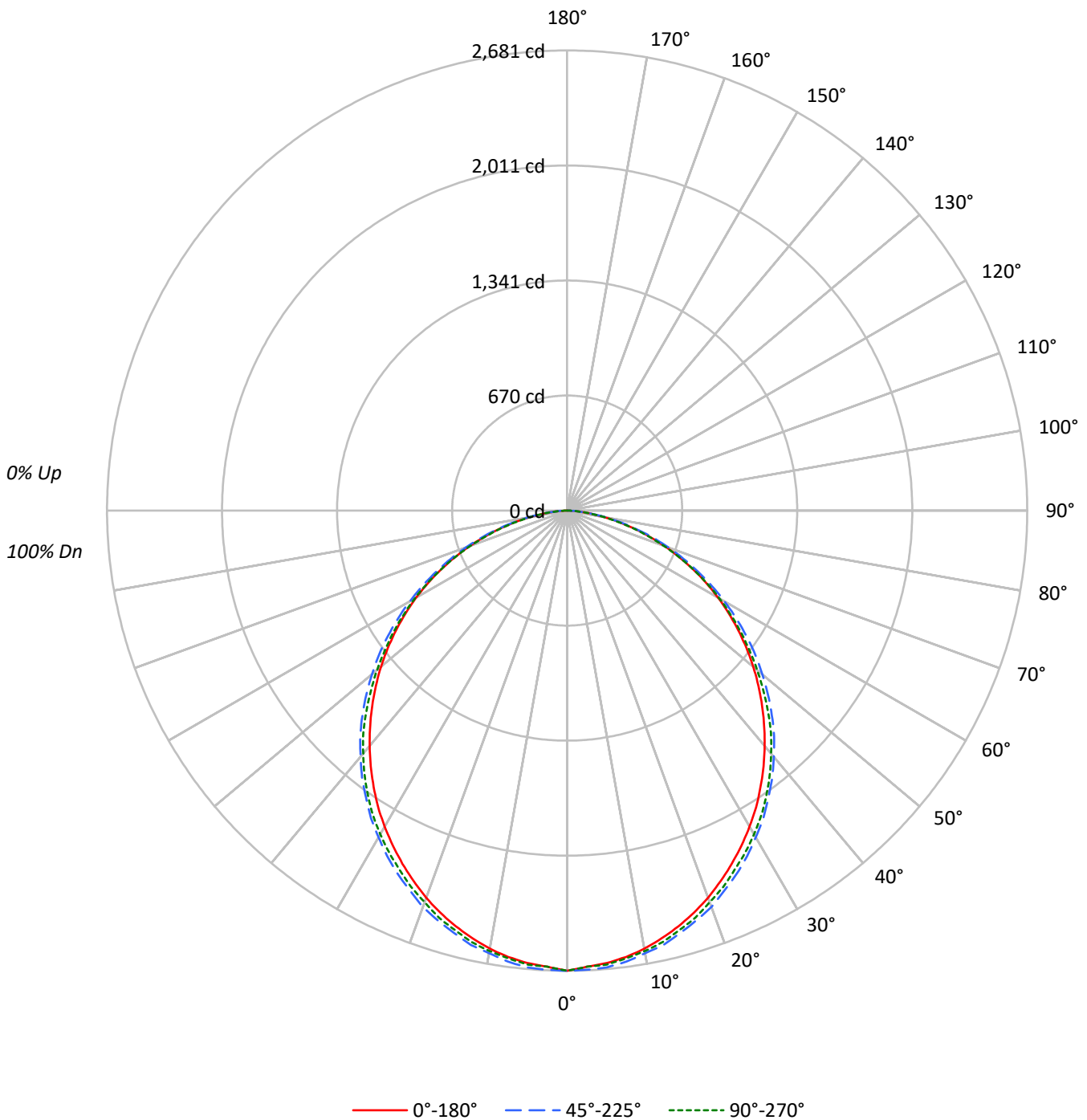
Lumens per Lamp: N/A
Luminaire Lumens: 7049.0 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	7215	7215	7215
5°	7148	7215	7171
10°	7083	7154	7120
15°	6985	7098	7048
20°	6875	7038	6953
25°	6741	6937	6857
30°	6605	6829	6766
35°	6456	6712	6650
40°	6288	6578	6494
45°	6112	6420	6299
50°	5928	6215	6052
55°	5713	5980	5797
60°	5470	5697	5521
65°	5155	5352	5158
70°	4743	4934	4690
75°	4177	4366	4113
80°	3394	3541	3355
85°	2362	2519	2458



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	3.6
10°-20°	715.6	10.2
20°-30°	1067.2	15.1
30°-40°	1264.7	17.9
40°-50°	1279.7	18.2
50°-60°	1117.6	15.9
60°-70°	816.7	11.6
70°-80°	434.6	6.2
80°-90°	100.4	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°	2035.3	28.9
0°-40°	3300.0	46.8
0°-60°	5697.3	80.8
0°-90°	7049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7049.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2681	2681	2681	2681	2681	
5°	2646	2651	2671	2677	2655	251
15°	2507	2524	2548	2563	2530	707
25°	2270	2298	2336	2345	2309	1046
35°	1965	1996	2043	2057	2024	1229
45°	1606	1634	1687	1688	1655	1239
55°	1218	1242	1275	1256	1236	1088
65°	810	826	841	824	810	801
75°	402	411	420	404	396	427
85°	76	78	82	82	80	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2681.2	2681.2	2681.2	2681.2	2681.2
2.5°	2660.2	2668.9	2677.8	2681.7	2660.0
5°	2646.3	2651.3	2671.1	2677.3	2654.7
7.5°	2623.4	2630.9	2650.2	2653.0	2631.2
10°	2592.1	2605.5	2618.3	2632.3	2605.8
12.5°	2552.1	2570.3	2592.1	2594.6	2574.5
15°	2507.2	2523.9	2547.7	2563.0	2529.8
17.5°	2456.9	2473.1	2503.8	2506.6	2486.5
20°	2400.7	2420.8	2457.7	2464.1	2428.1
22.5°	2337.0	2364.1	2394.9	2401.0	2374.5
25°	2270.3	2298.2	2336.2	2344.9	2309.4
27.5°	2200.4	2227.2	2270.0	2276.1	2246.2
30°	2125.6	2150.7	2197.6	2208.0	2177.5
32.5°	2049.6	2074.7	2126.7	2135.3	2105.7
35°	1965.2	1995.9	2043.2	2057.4	2024.2
37.5°	1879.2	1909.1	1962.7	1975.6	1939.8
40°	1790.1	1819.7	1872.5	1883.1	1848.7
42.5°	1699.0	1728.6	1785.0	1786.7	1758.2
45°	1606.0	1634.5	1687.0	1688.4	1655.1
47.5°	1511.6	1540.3	1587.3	1582.0	1550.7
50°	1416.0	1443.4	1484.5	1473.8	1445.6
52.5°	1317.1	1343.7	1382.5	1365.2	1338.6
55°	1217.7	1242.3	1274.7	1256.2	1235.6
57.5°	1117.4	1142.3	1167.1	1148.4	1130.5
60°	1016.3	1038.1	1058.5	1039.5	1025.8
62.5°	913.5	932.2	949.8	931.6	918.8
65°	809.6	826.0	840.6	823.8	810.1
67.5°	706.2	720.2	733.6	716.3	702.0
70°	602.8	614.8	627.1	609.3	596.1
72.5°	500.9	511.5	522.4	505.1	493.6
75°	401.7	410.9	419.9	404.5	395.6
77.5°	307.0	314.8	321.0	311.2	302.5
80°	219.0	224.9	228.5	224.6	216.5
82.5°	140.8	145.0	146.9	146.7	141.4
85°	76.5	77.9	81.6	82.4	79.6
87.5°	29.6	31.6	32.4	34.9	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)