

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: P488570

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2HI-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: P488570
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-LD4-2HI-30-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

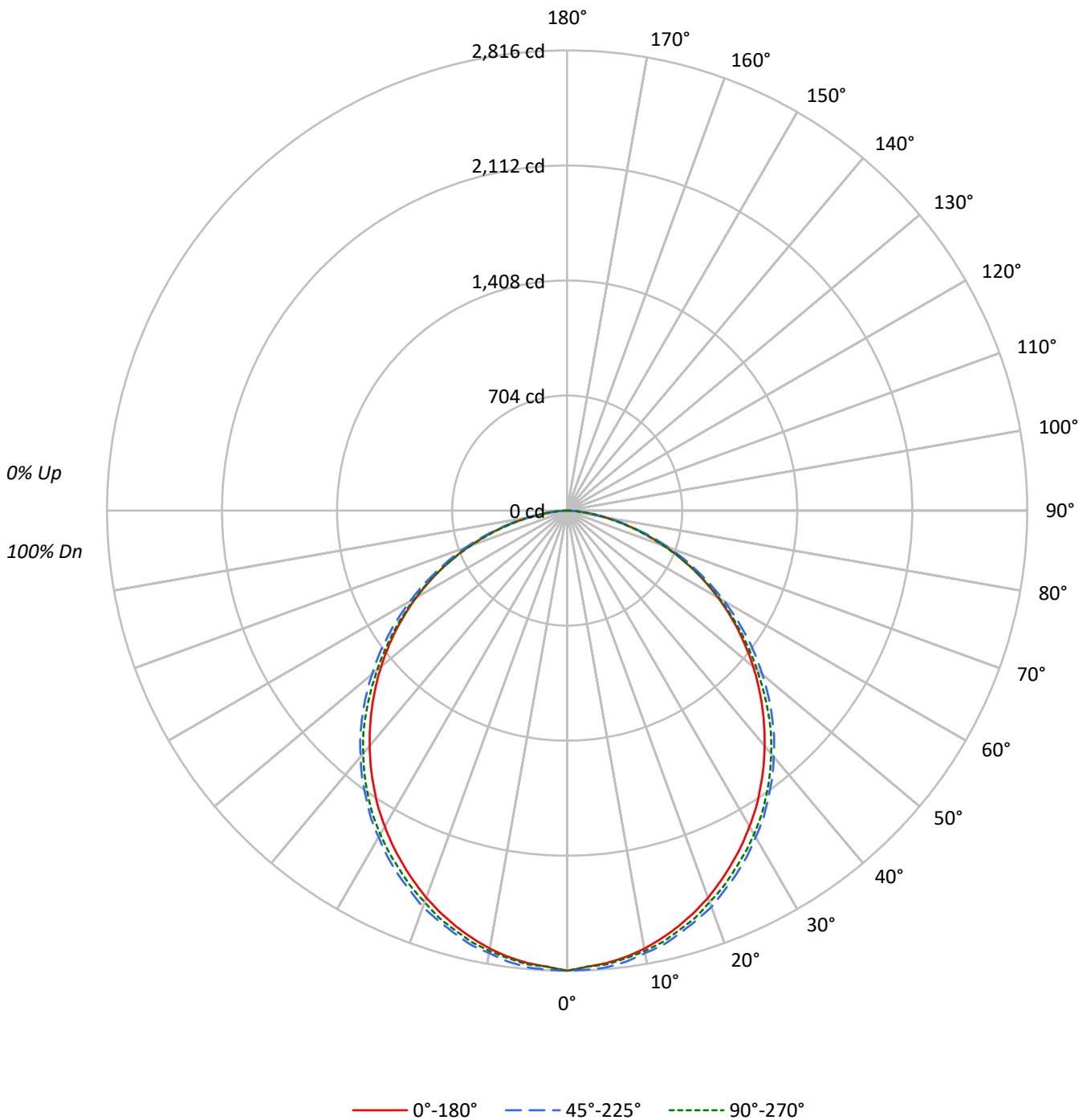
Lumens per Lamp: N/A
Luminaire Lumens: 7402.8 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7577	7577	7577
5°	7507	7578	7531
10°	7438	7514	7478
15°	7335	7454	7402
20°	7220	7391	7302
25°	7079	7285	7201
30°	6936	7171	7106
35°	6780	7049	6983
40°	6604	6908	6820
45°	6419	6742	6615
50°	6226	6527	6356
55°	6000	6280	6088
60°	5744	5983	5798
65°	5414	5621	5417
70°	4981	5182	4926
75°	4387	4584	4319
80°	3564	3719	3524
85°	2482	2646	2581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.2	3.6
10°-20°	751.5	10.2
20°-30°	1120.8	15.1
30°-40°	1328.2	17.9
40°-50°	1343.9	18.2
50°-60°	1173.7	15.9
60°-70°	857.7	11.6
70°-80°	456.4	6.2
80°-90°	105.5	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°	2137.5	28.9
0°-40°	3465.7	46.8
0°-60°	5983.3	80.8
0°-90°	7402.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7402.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2816	2816	2816	2816	2816	
5°	2779	2784	2805	2812	2788	264
15°	2633	2651	2676	2692	2657	742
25°	2384	2414	2454	2462	2425	1098
35°	2064	2096	2146	2161	2126	1291
45°	1687	1716	1772	1773	1738	1301
55°	1279	1305	1339	1319	1298	1143
65°	850	868	883	865	851	841
75°	422	432	441	425	415	449
85°	80	82	86	86	84	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2815.8	2815.8	2815.8	2815.8	2815.8
2.5°	2793.8	2802.9	2812.2	2816.3	2793.5
5°	2779.1	2784.4	2805.2	2811.7	2787.9
7.5°	2755.0	2763.0	2783.2	2786.1	2763.2
10°	2722.2	2736.3	2749.8	2764.4	2736.6
12.5°	2680.2	2699.3	2722.2	2724.8	2703.7
15°	2633.0	2650.6	2675.5	2691.7	2656.8
17.5°	2580.2	2597.2	2629.5	2632.4	2611.3
20°	2521.2	2542.3	2581.1	2587.8	2550.0
22.5°	2454.3	2482.8	2515.1	2521.5	2493.6
25°	2384.2	2413.6	2453.5	2462.5	2425.3
27.5°	2310.9	2339.0	2383.9	2390.4	2359.0
30°	2232.2	2258.7	2307.9	2318.8	2286.8
32.5°	2152.5	2178.9	2233.4	2242.5	2211.4
35°	2063.9	2096.1	2145.7	2160.7	2125.8
37.5°	1973.5	2004.9	2061.2	2074.7	2037.2
40°	1879.9	1911.0	1966.5	1977.6	1941.5
42.5°	1784.3	1815.4	1874.6	1876.4	1846.5
45°	1686.6	1716.5	1771.7	1773.1	1738.2
47.5°	1587.4	1617.6	1666.9	1661.4	1628.5
50°	1487.1	1515.8	1559.0	1547.8	1518.2
52.5°	1383.2	1411.1	1451.9	1433.7	1405.8
55°	1278.8	1304.6	1338.6	1319.3	1297.6
57.5°	1173.5	1199.6	1225.7	1206.0	1187.3
60°	1067.3	1090.2	1111.6	1091.6	1077.3
62.5°	959.3	979.0	997.5	978.4	964.9
65°	850.2	867.5	882.7	865.1	850.8
67.5°	741.6	756.3	770.4	752.2	737.2
70°	633.1	645.7	658.6	639.8	626.1
72.5°	526.0	537.2	548.6	530.4	518.4
75°	421.9	431.5	440.9	424.8	415.4
77.5°	322.4	330.6	337.1	326.8	317.7
80°	230.0	236.2	240.0	235.9	227.4
82.5°	147.9	152.3	154.3	154.0	148.4
85°	80.4	81.9	85.7	86.5	83.6
87.5°	31.1	33.2	34.0	36.7	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)