

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: P490173

Luminaire Tested: **CLP-12-4-INS-A12125-LD4-1LO-50-120-EDD**

Issue Date: 3/12/2021

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: P490173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLP-12-4-INS-A12125-LD4-1LO-50-120-EDD
Description: 1X4 CLP LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

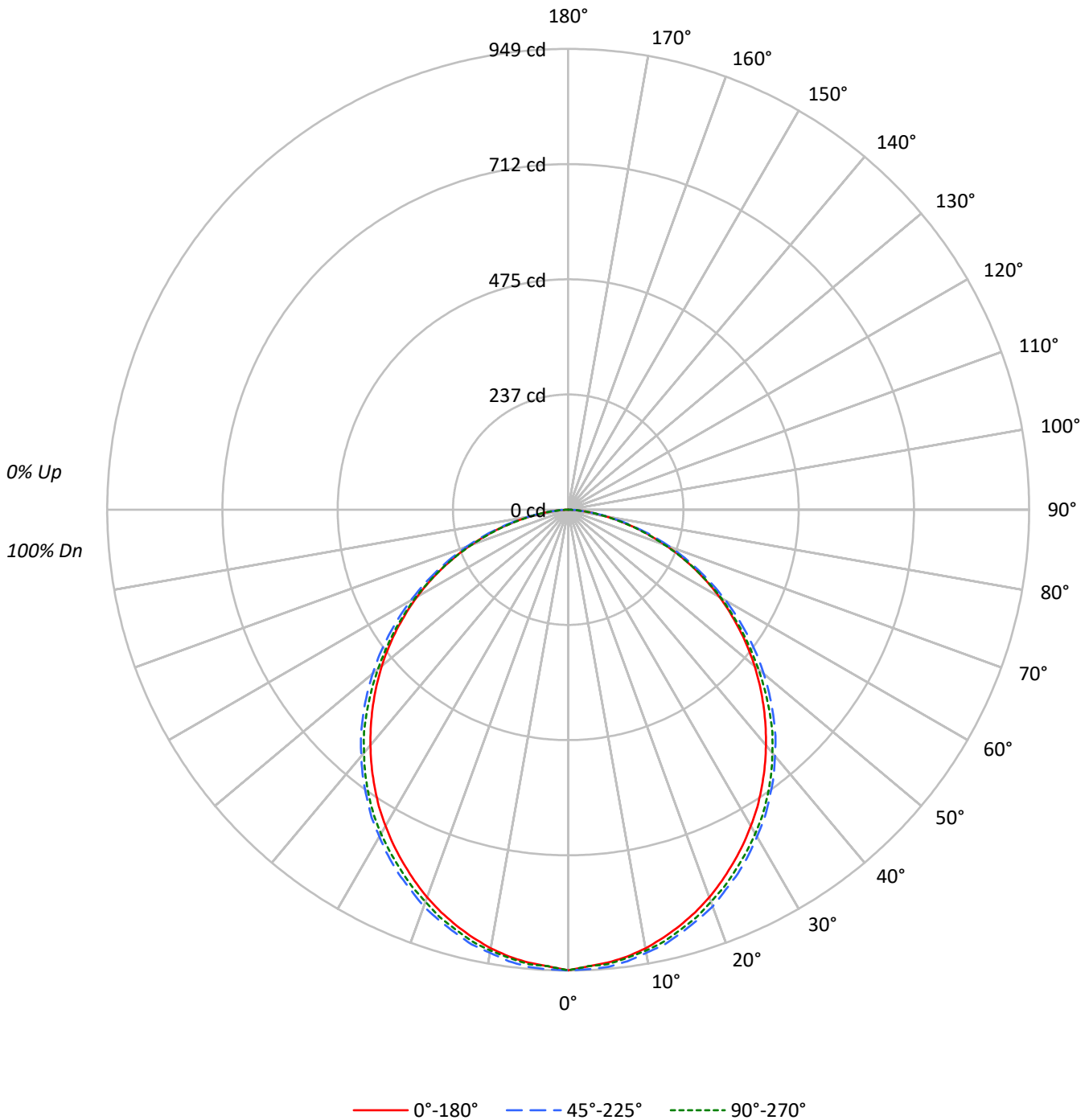
Lumens per Lamp: N/A
Luminaire Lumens: 2494.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2553	2553	2553
5°	2529	2553	2537
10°	2506	2531	2519
15°	2471	2511	2494
20°	2432	2490	2460
25°	2385	2454	2426
30°	2337	2416	2394
35°	2284	2375	2353
40°	2225	2327	2298
45°	2162	2272	2229
50°	2097	2199	2141
55°	2021	2116	2051
60°	1935	2016	1953
65°	1824	1894	1825
70°	1678	1746	1659
75°	1477	1545	1456
80°	1201	1252	1187
85°	837	892	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	3.6
10°-20°	253.2	10.2
20°-30°	377.6	15.1
30°-40°	447.5	17.9
40°-50°	452.8	18.2
50°-60°	395.4	15.9
60°-70°	289.0	11.6
70°-80°	153.8	6.2
80°-90°	35.6	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°	720.1	28.9
0°-40°	1167.6	46.8
0°-60°	2015.8	80.8
0°-90°	2494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	949	949	949	949	949	
5°	936	938	945	947	939	89
15°	887	893	901	907	895	250
25°	803	813	827	830	817	370
35°	695	706	723	728	716	435
45°	568	578	597	597	586	438
55°	431	440	451	444	437	385
65°	286	292	297	292	287	283
75°	142	145	149	143	140	151
85°	27	28	29	29	28	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	948.6	948.6	948.6	948.6	948.6
2.5°	941.2	944.3	947.4	948.8	941.1
5°	936.3	938.1	945.1	947.2	939.2
7.5°	928.2	930.8	937.7	938.6	930.9
10°	917.1	921.8	926.4	931.3	921.9
12.5°	903.0	909.4	917.1	918.0	910.9
15°	887.1	893.0	901.4	906.8	895.1
17.5°	869.3	875.0	885.9	886.9	879.7
20°	849.4	856.5	869.6	871.8	859.1
22.5°	826.9	836.4	847.3	849.5	840.1
25°	803.2	813.1	826.6	829.6	817.1
27.5°	778.5	788.0	803.1	805.3	794.7
30°	752.0	760.9	777.5	781.2	770.4
32.5°	725.2	734.1	752.4	755.5	745.0
35°	695.3	706.2	722.9	727.9	716.2
37.5°	664.9	675.4	694.4	699.0	686.3
40°	633.3	643.8	662.5	666.3	654.1
42.5°	601.1	611.6	631.6	632.2	622.1
45°	568.2	578.3	596.9	597.4	585.6
47.5°	534.8	545.0	561.6	559.7	548.6
50°	501.0	510.7	525.2	521.5	511.5
52.5°	466.0	475.4	489.1	483.0	473.6
55°	430.8	439.5	451.0	444.5	437.2
57.5°	395.3	404.1	412.9	406.3	400.0
60°	359.6	367.3	374.5	367.8	362.9
62.5°	323.2	329.8	336.0	329.6	325.1
65°	286.4	292.3	297.4	291.5	286.6
67.5°	249.9	254.8	259.5	253.4	248.4
70°	213.3	217.5	221.9	215.6	210.9
72.5°	177.2	181.0	184.8	178.7	174.6
75°	142.1	145.4	148.6	143.1	140.0
77.5°	108.6	111.4	113.6	110.1	107.0
80°	77.5	79.6	80.8	79.5	76.6
82.5°	49.8	51.3	52.0	51.9	50.0
85°	27.1	27.6	28.9	29.2	28.2
87.5°	10.5	11.2	11.5	12.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)