

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: P488577

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2HI-50-120-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: P488577
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-50-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

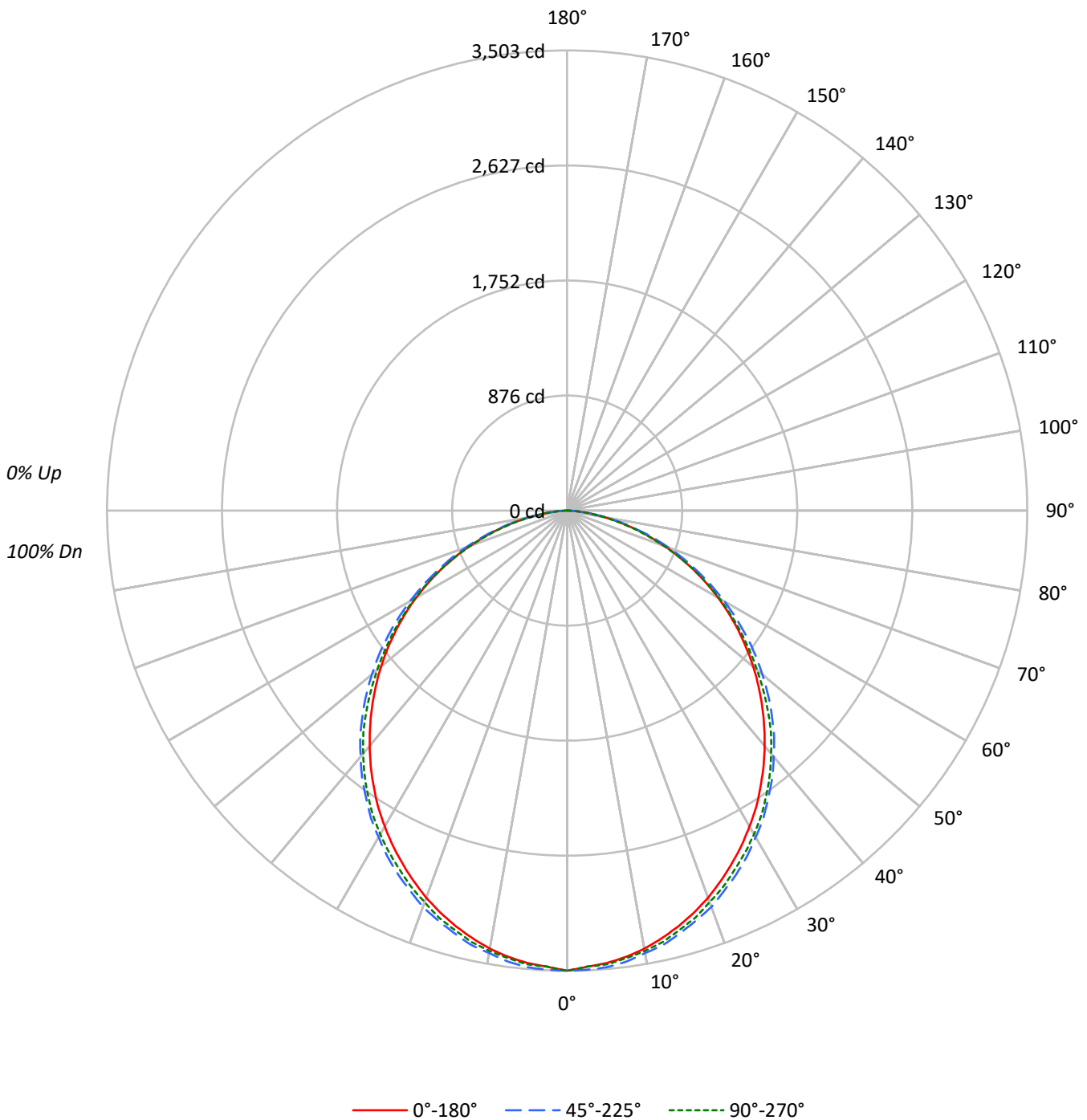
Lumens per Lamp: N/A
Luminaire Lumens: 9208.6 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P488577

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-2HI-50-120-EDD

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°	9425	9425	9425
5°	9338	9426	9368
10°	9253	9346	9302
15°	9125	9272	9207
20°	8981	9194	9084
25°	8806	9062	8958
30°	8628	8921	8839
35°	8434	8768	8687
40°	8215	8593	8484
45°	7984	8387	8229
50°	7744	8119	7906
55°	7463	7812	7573
60°	7145	7442	7212
65°	6734	6992	6739
70°	6196	6446	6128
75°	5456	5703	5372
80°	4434	4626	4382
85°	3088	3291	3211



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.9	3.6
10°-20°	934.8	10.2
20°-30°	1394.2	15.1
30°-40°	1652.1	17.9
40°-50°	1671.7	18.2
50°-60°	1460.0	15.9
60°-70°	1066.9	11.6
70°-80°	567.7	6.2
80°-90°	131.2	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°	2658.9	28.9
0°-40°	4311.0	46.8
0°-60°	7442.8	80.8
0°-90°	9208.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9208.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3503	3503	3503	3503	3503	
5°	3457	3464	3490	3498	3468	328
15°	3275	3297	3328	3348	3305	923
25°	2966	3002	3052	3063	3017	1366
35°	2567	2607	2669	2688	2644	1606
45°	2098	2135	2204	2206	2162	1619
55°	1591	1623	1665	1641	1614	1422
65°	1058	1079	1098	1076	1058	1047
75°	525	537	548	528	517	558
85°	100	102	107	108	104	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3502.6	3502.6	3502.6	3502.6	3502.6
2.5°	3475.3	3486.6	3498.2	3503.4	3474.9
5°	3457.0	3463.6	3489.5	3497.5	3468.0
7.5°	3427.1	3436.9	3462.1	3465.8	3437.3
10°	3386.2	3403.7	3420.5	3438.8	3404.1
12.5°	3334.0	3357.7	3386.2	3389.5	3363.2
15°	3275.3	3297.2	3328.2	3348.3	3304.8
17.5°	3209.6	3230.7	3270.9	3274.5	3248.3
20°	3136.2	3162.5	3210.7	3219.1	3172.0
22.5°	3053.0	3088.4	3128.6	3136.6	3101.9
25°	2965.8	3002.3	3051.9	3063.2	3016.9
27.5°	2874.6	2909.6	2965.4	2973.5	2934.4
30°	2776.8	2809.6	2870.9	2884.4	2844.7
32.5°	2677.5	2710.4	2778.2	2789.5	2750.9
35°	2567.3	2607.4	2669.1	2687.7	2644.3
37.5°	2454.9	2493.9	2564.0	2580.8	2534.1
40°	2338.5	2377.2	2446.1	2460.0	2415.1
42.5°	2219.5	2258.2	2331.9	2334.1	2296.9
45°	2098.0	2135.2	2203.8	2205.7	2162.2
47.5°	1974.7	2012.2	2073.5	2066.6	2025.7
50°	1849.8	1885.6	1939.3	1925.4	1888.5
52.5°	1720.7	1755.3	1806.1	1783.4	1748.8
55°	1590.7	1622.9	1665.2	1641.1	1614.1
57.5°	1459.7	1492.2	1524.7	1500.2	1476.9
60°	1327.6	1356.1	1382.7	1357.9	1340.0
62.5°	1193.3	1217.8	1240.8	1217.1	1200.3
65°	1057.6	1079.1	1098.1	1076.2	1058.3
67.5°	922.5	940.8	958.3	935.7	917.1
70°	787.5	803.2	819.3	795.9	778.8
72.5°	654.3	668.2	682.4	659.8	644.8
75°	524.8	536.8	548.5	528.4	516.7
77.5°	401.1	411.3	419.3	406.5	395.2
80°	286.1	293.8	298.5	293.4	282.8
82.5°	183.9	189.4	192.0	191.6	184.7
85°	100.0	101.8	106.6	107.7	104.0
87.5°	38.7	41.2	42.3	45.6	42.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)