

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: P489027

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5STD-30-120-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: P489027
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-24-2-INS-A12125-LD4-5STD-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

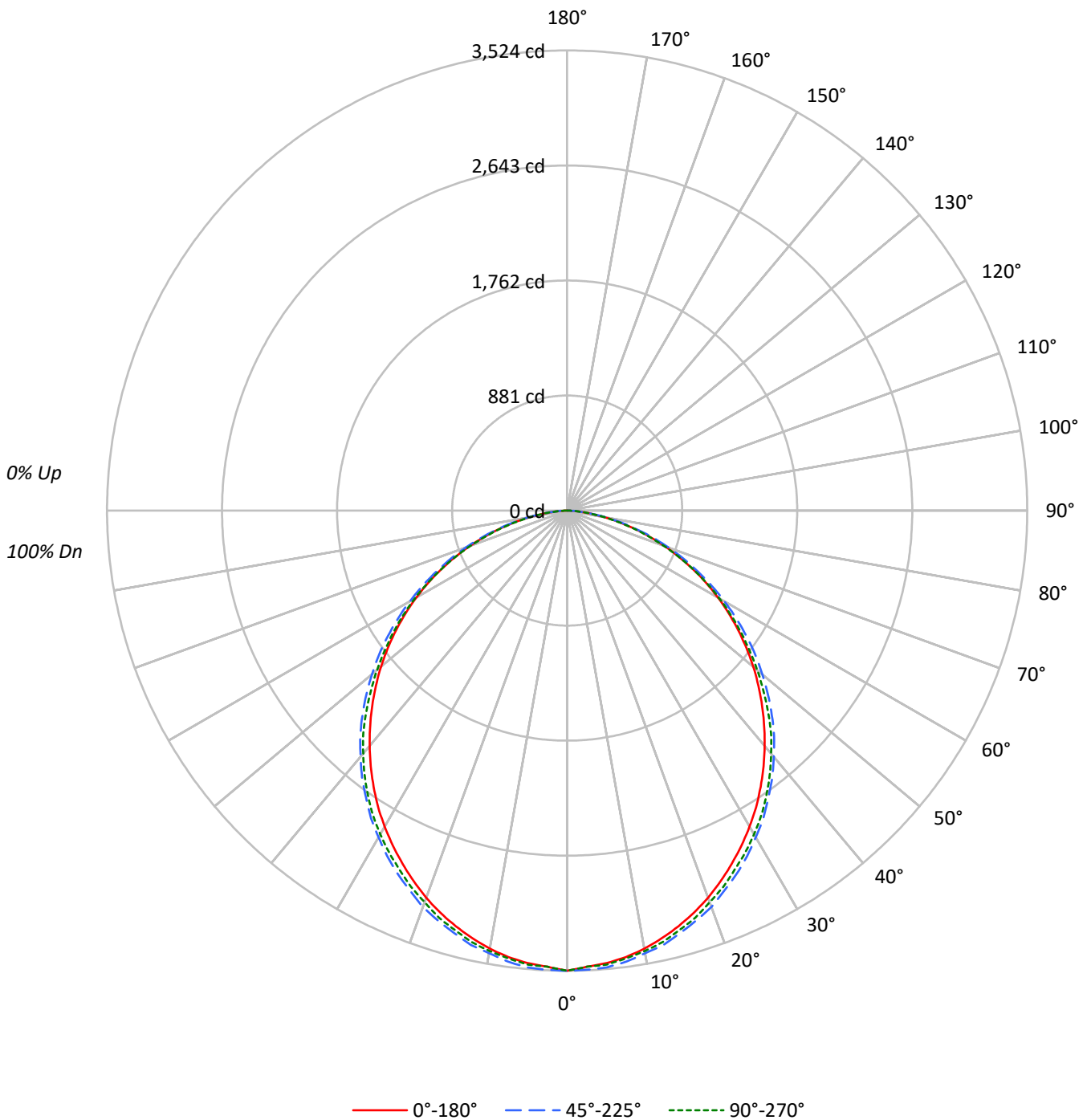
Lumens per Lamp: N/A
Luminaire Lumens: 9265.5 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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: P489027

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5STD-30-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P489027

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5STD-30-120-EDD

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°	9484	9484	9484
5°	9396	9484	9426
10°	9310	9404	9359
15°	9181	9329	9264
20°	9037	9251	9140
25°	8860	9118	9013
30°	8681	8976	8894
35°	8486	8822	8740
40°	8265	8646	8536
45°	8034	8439	8280
50°	7792	8169	7955
55°	7509	7861	7620
60°	7189	7488	7256
65°	6776	7035	6780
70°	6235	6486	6165
75°	5490	5738	5405
80°	4462	4655	4410
85°	3106	3310	3230



TEST NUMBER: P489027

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5STD-30-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.9	3.6
10°-20°	940.6	10.2
20°-30°	1402.8	15.1
30°-40°	1662.4	17.9
40°-50°	1682.1	18.2
50°-60°	1469.0	15.9
60°-70°	1073.5	11.6
70°-80°	571.2	6.2
80°-90°	132.0	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°	2675.3	28.9
0°-40°	4337.7	46.8
0°-60°	7488.8	80.8
0°-90°	9265.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9265.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3524	3524	3524	3524	3524	
5°	3478	3485	3511	3519	3489	330
15°	3296	3318	3349	3369	3325	929
25°	2984	3021	3071	3082	3036	1375
35°	2583	2624	2686	2704	2661	1615
45°	2111	2148	2217	2219	2176	1629
55°	1601	1633	1676	1651	1624	1431
65°	1064	1086	1105	1083	1065	1053
75°	528	540	552	532	520	561
85°	101	102	107	108	105	127
90°	0	0	0	0	0	



TEST NUMBER: P489027

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5STD-30-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3524.3	3524.3	3524.3	3524.3	3524.3
2.5°	3496.7	3508.1	3519.9	3525.0	3496.4
5°	3478.4	3485.0	3511.0	3519.1	3489.4
7.5°	3448.3	3458.2	3483.5	3487.2	3458.5
10°	3407.1	3424.8	3441.6	3460.0	3425.1
12.5°	3354.6	3378.5	3407.1	3410.4	3384.0
15°	3295.5	3317.5	3348.8	3368.9	3325.3
17.5°	3229.4	3250.7	3291.1	3294.8	3268.3
20°	3155.6	3182.0	3230.5	3239.0	3191.6
22.5°	3071.9	3107.5	3147.9	3156.0	3121.1
25°	2984.1	3020.9	3070.8	3082.2	3035.5
27.5°	2892.3	2927.6	2983.8	2991.8	2952.6
30°	2793.9	2827.0	2888.7	2902.3	2862.2
32.5°	2694.1	2727.1	2795.4	2806.8	2767.9
35°	2583.2	2623.6	2685.6	2704.3	2660.6
37.5°	2470.1	2509.4	2579.9	2596.8	2549.8
40°	2352.9	2391.9	2461.3	2475.2	2430.0
42.5°	2233.2	2272.2	2346.3	2348.5	2311.1
45°	2111.0	2148.4	2217.4	2219.3	2175.6
47.5°	1986.9	2024.7	2086.4	2079.4	2038.3
50°	1861.3	1897.3	1951.2	1937.3	1900.2
52.5°	1731.3	1766.2	1817.2	1794.4	1759.6
55°	1600.6	1632.9	1675.5	1651.2	1624.1
57.5°	1468.8	1501.4	1534.1	1509.5	1486.0
60°	1335.8	1364.5	1391.3	1366.3	1348.3
62.5°	1200.7	1225.3	1248.4	1224.6	1207.7
65°	1064.1	1085.8	1104.9	1082.8	1064.8
67.5°	928.3	946.6	964.2	941.5	922.7
70°	792.4	808.2	824.3	800.8	783.6
72.5°	658.4	672.3	686.6	663.9	648.8
75°	528.0	540.1	551.9	531.7	519.9
77.5°	403.5	413.8	421.9	409.0	397.7
80°	287.9	295.6	300.4	295.2	284.6
82.5°	185.1	190.6	193.1	192.8	185.8
85°	100.6	102.4	107.2	108.3	104.6
87.5°	38.9	41.5	42.6	45.9	42.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)