

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: P488569

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2HI-27-120-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: P488569
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-27-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

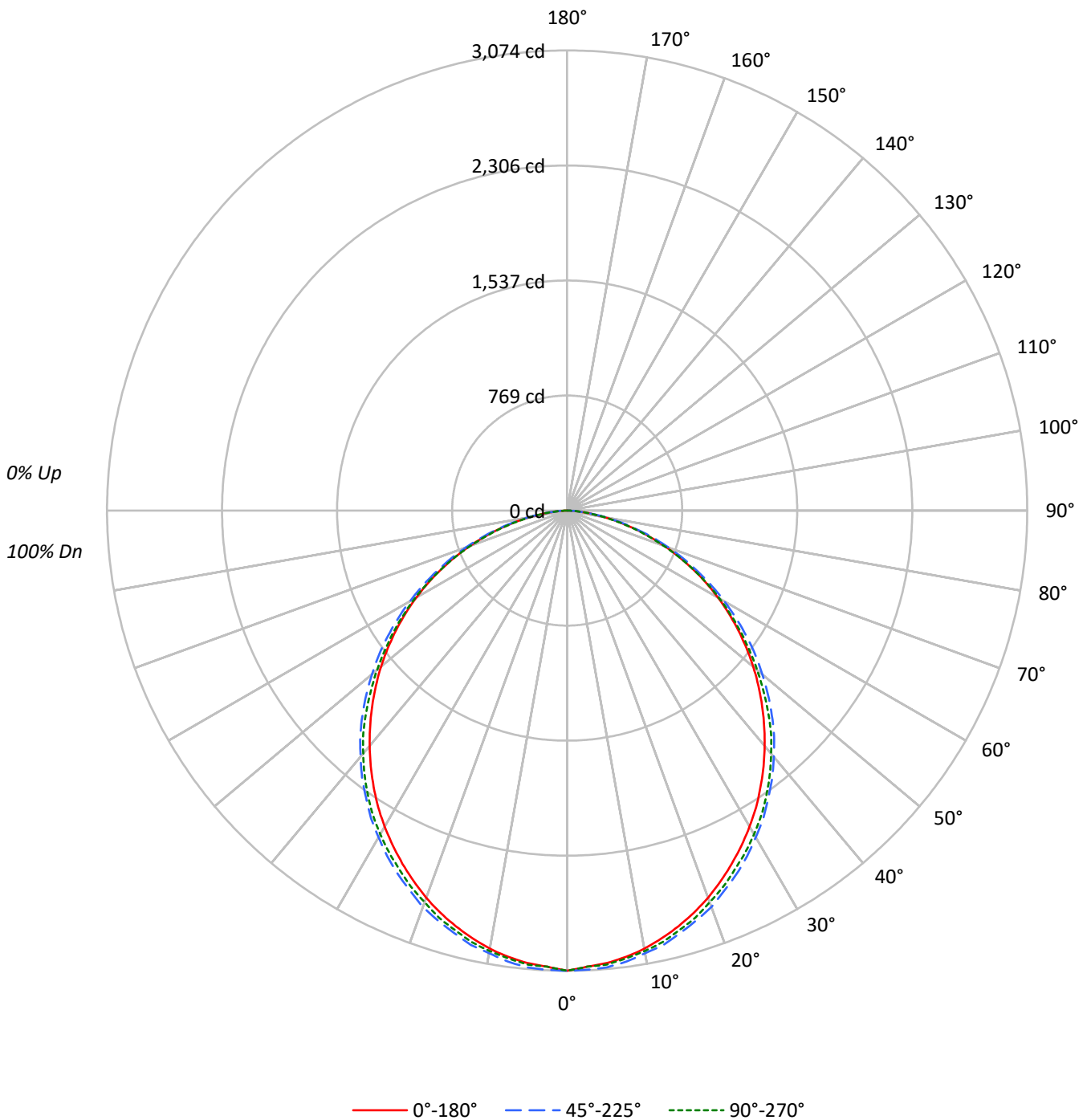
Lumens per Lamp: N/A
Luminaire Lumens: 8082.3 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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°	8273	8273	8273
5°	8196	8273	8222
10°	8121	8203	8164
15°	8009	8138	8081
20°	7883	8070	7972
25°	7729	7954	7862
30°	7573	7830	7758
35°	7402	7696	7624
40°	7210	7542	7446
45°	7008	7361	7222
50°	6797	7126	6939
55°	6550	6857	6647
60°	6271	6532	6330
65°	5910	6137	5915
70°	5438	5658	5378
75°	4789	5005	4715
80°	3891	4060	3846
85°	2711	2887	2819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.5	3.6
10°-20°	820.5	10.2
20°-30°	1223.7	15.1
30°-40°	1450.1	17.9
40°-50°	1467.3	18.2
50°-60°	1281.4	15.9
60°-70°	936.4	11.6
70°-80°	498.3	6.2
80°-90°	115.2	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°	2333.7	28.9
0°-40°	3783.8	46.8
0°-60°	6532.5	80.8
0°-90°	8082.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8082.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3074	3074	3074	3074	3074	
5°	3034	3040	3063	3070	3044	288
15°	2875	2894	2921	2939	2901	810
25°	2603	2635	2679	2689	2648	1199
35°	2253	2288	2343	2359	2321	1409
45°	1841	1874	1934	1936	1898	1421
55°	1396	1424	1462	1440	1417	1248
65°	928	947	964	945	929	919
75°	461	471	481	464	454	490
85°	88	89	94	94	91	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3074.2	3074.2	3074.2	3074.2	3074.2
2.5°	3050.2	3060.1	3070.4	3074.9	3049.9
5°	3034.2	3039.9	3062.7	3069.7	3043.8
7.5°	3007.9	3016.6	3038.7	3041.9	3016.9
10°	2972.0	2987.4	3002.2	3018.2	2987.7
12.5°	2926.2	2947.1	2972.0	2974.9	2951.9
15°	2874.7	2893.9	2921.1	2938.7	2900.6
17.5°	2817.0	2835.6	2870.8	2874.0	2851.0
20°	2752.6	2775.7	2818.0	2825.3	2784.0
22.5°	2679.6	2710.7	2745.9	2753.0	2722.5
25°	2603.1	2635.1	2678.7	2688.6	2647.9
27.5°	2523.0	2553.7	2602.7	2609.8	2575.5
30°	2437.1	2466.0	2519.8	2531.6	2496.7
32.5°	2350.0	2378.9	2438.4	2448.4	2414.4
35°	2253.3	2288.5	2342.7	2359.0	2320.9
37.5°	2154.6	2188.9	2250.4	2265.1	2224.1
40°	2052.5	2086.4	2147.0	2159.1	2119.7
42.5°	1948.1	1982.0	2046.7	2048.6	2016.0
45°	1841.4	1874.1	1934.3	1935.9	1897.8
47.5°	1733.1	1766.1	1819.9	1813.8	1778.0
50°	1623.6	1655.0	1702.1	1689.9	1657.5
52.5°	1510.2	1540.6	1585.2	1565.3	1534.9
55°	1396.2	1424.4	1461.5	1440.4	1416.7
57.5°	1281.2	1309.7	1338.2	1316.7	1296.2
60°	1165.2	1190.2	1213.6	1191.8	1176.1
62.5°	1047.4	1068.8	1089.0	1068.2	1053.5
65°	928.2	947.1	963.8	944.6	928.9
67.5°	809.7	825.7	841.1	821.2	804.9
70°	691.2	705.0	719.1	698.6	683.5
72.5°	574.3	586.5	599.0	579.1	566.0
75°	460.6	471.2	481.4	463.8	453.5
77.5°	352.0	361.0	368.0	356.8	346.9
80°	251.1	257.8	262.0	257.5	248.2
82.5°	161.4	166.2	168.5	168.2	162.1
85°	87.8	89.4	93.5	94.5	91.3
87.5°	34.0	36.2	37.2	40.0	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)