

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: P488933

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3HI-35-120-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: P488933
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-LD4-3HI-35-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

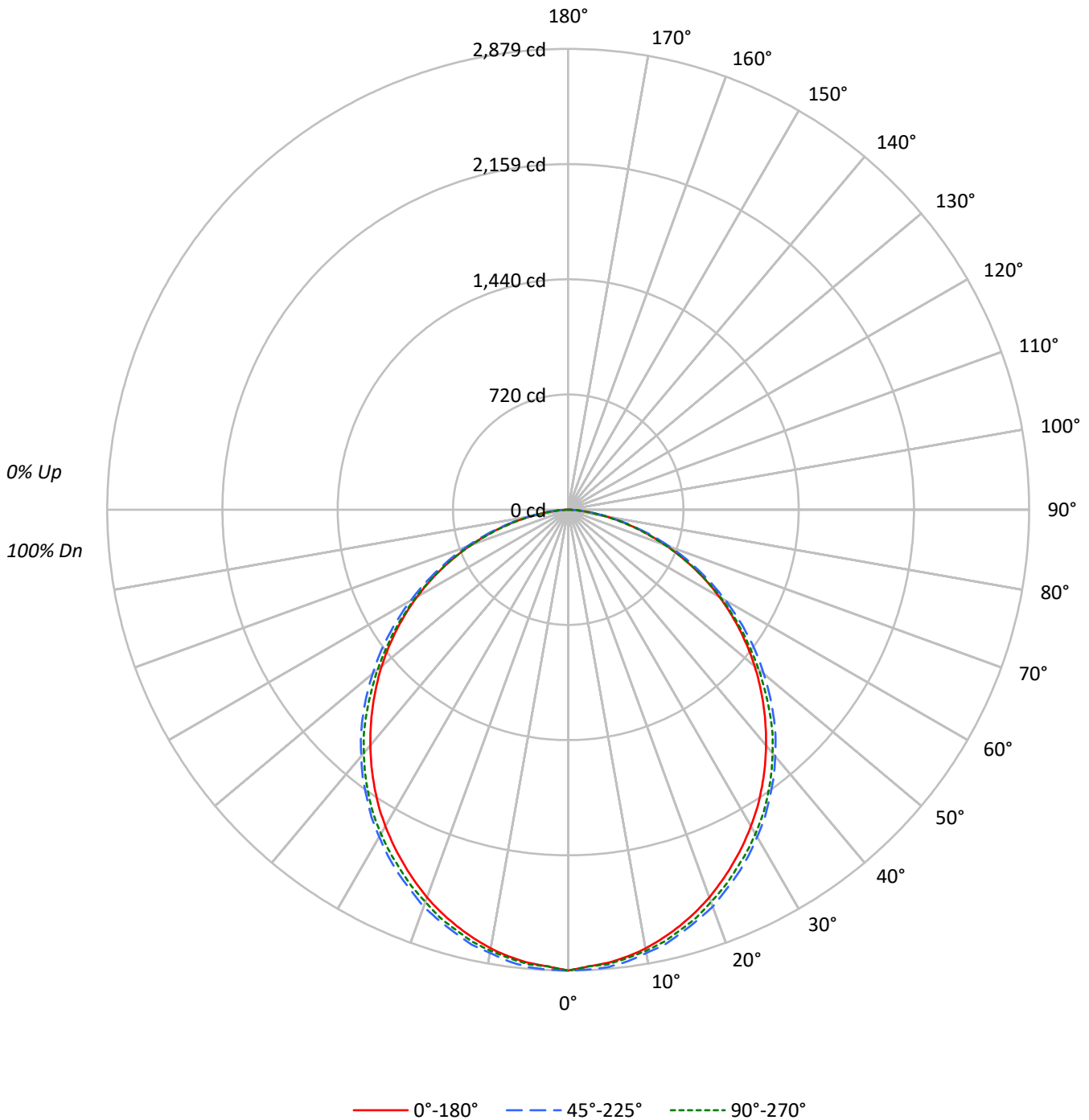
Lumens per Lamp: N/A
Luminaire Lumens: 7569.6 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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°	7748	7748	7748
5°	7676	7748	7700
10°	7606	7683	7646
15°	7500	7622	7568
20°	7383	7558	7467
25°	7239	7449	7363
30°	7092	7333	7266
35°	6933	7208	7141
40°	6753	7064	6974
45°	6563	6894	6764
50°	6366	6674	6499
55°	6135	6422	6225
60°	5873	6117	5928
65°	5535	5747	5539
70°	5094	5299	5037
75°	4485	4688	4417
80°	3645	3803	3603
85°	2538	2705	2640



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.2	3.6
10°-20°	768.4	10.2
20°-30°	1146.0	15.1
30°-40°	1358.1	17.9
40°-50°	1374.2	18.2
50°-60°	1200.1	15.9
60°-70°	877.0	11.6
70°-80°	466.7	6.2
80°-90°	107.9	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°	2185.6	28.9
0°-40°	3543.7	46.8
0°-60°	6118.1	80.8
0°-90°	7569.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7569.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2879	2879	2879	2879	2879	
5°	2842	2847	2868	2875	2851	269
15°	2692	2710	2736	2752	2717	759
25°	2438	2468	2509	2518	2480	1123
35°	2110	2143	2194	2209	2174	1320
45°	1725	1755	1812	1813	1777	1330
55°	1308	1334	1369	1349	1327	1169
65°	869	887	903	885	870	860
75°	431	441	451	434	425	459
85°	82	84	88	88	86	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2879.2	2879.2	2879.2	2879.2	2879.2
2.5°	2856.7	2866.0	2875.6	2879.8	2856.4
5°	2841.7	2847.1	2868.4	2875.0	2850.7
7.5°	2817.1	2825.2	2845.9	2848.9	2825.5
10°	2783.5	2797.9	2811.7	2826.7	2798.2
12.5°	2740.6	2760.1	2783.5	2786.2	2764.6
15°	2692.3	2710.3	2735.8	2752.3	2716.6
17.5°	2638.3	2655.7	2688.7	2691.7	2670.1
20°	2578.0	2599.6	2639.2	2646.1	2607.4
22.5°	2509.6	2538.7	2571.7	2578.3	2549.8
25°	2437.9	2467.9	2508.7	2518.0	2479.9
27.5°	2362.9	2391.7	2437.6	2444.2	2412.1
30°	2282.5	2309.5	2359.9	2371.0	2338.3
32.5°	2201.0	2228.0	2283.7	2293.0	2261.2
35°	2110.4	2143.4	2194.1	2209.4	2173.7
37.5°	2018.0	2050.1	2107.7	2121.5	2083.1
40°	1922.3	1954.1	2010.8	2022.2	1985.3
42.5°	1824.5	1856.3	1916.9	1918.7	1888.1
45°	1724.6	1755.2	1811.6	1813.1	1777.4
47.5°	1623.2	1654.1	1704.5	1698.8	1665.2
50°	1520.6	1550.0	1594.1	1582.7	1552.4
52.5°	1414.4	1442.9	1484.6	1466.0	1437.5
55°	1307.6	1334.0	1368.8	1349.0	1326.8
57.5°	1199.9	1226.6	1253.3	1233.2	1214.0
60°	1091.3	1114.7	1136.6	1116.2	1101.5
62.5°	980.9	1001.0	1019.9	1000.4	986.6
65°	869.3	887.0	902.6	884.6	869.9
67.5°	758.3	773.3	787.7	769.1	753.8
70°	647.4	660.3	673.5	654.3	640.2
72.5°	537.9	549.3	561.0	542.4	530.1
75°	431.4	441.3	450.9	434.4	424.8
77.5°	329.7	338.1	344.7	334.2	324.9
80°	235.2	241.5	245.4	241.2	232.5
82.5°	151.2	155.7	157.8	157.5	151.8
85°	82.2	83.7	87.6	88.5	85.5
87.5°	31.8	33.9	34.8	37.5	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)