

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: P489017

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5LO-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: P489017
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-LD4-5LO-35-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

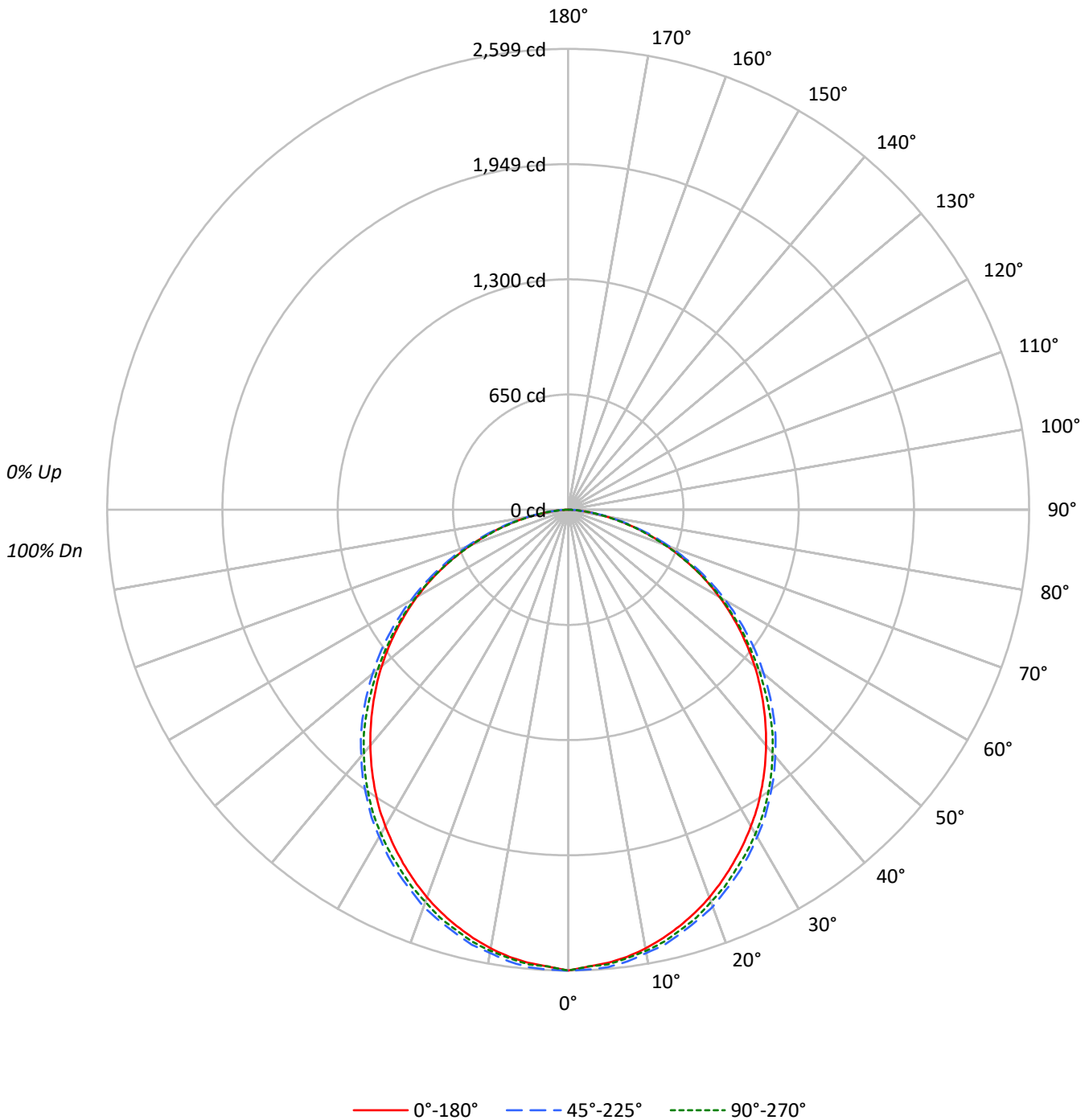
Lumens per Lamp: N/A
Luminaire Lumens: 6833.7 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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: P489017

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5LO-35-120-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	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°	6995	6995	6995
5°	6930	6995	6952
10°	6866	6936	6903
15°	6771	6881	6832
20°	6665	6823	6741
25°	6535	6725	6647
30°	6403	6620	6559
35°	6259	6507	6446
40°	6096	6377	6296
45°	5925	6224	6106
50°	5747	6025	5867
55°	5538	5797	5620
60°	5302	5522	5352
65°	4997	5189	5001
70°	4598	4784	4547
75°	4049	4232	3987
80°	3290	3433	3253
85°	2291	2442	2384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.8	3.6
10°-20°	693.7	10.2
20°-30°	1034.6	15.1
30°-40°	1226.1	17.9
40°-50°	1240.6	18.2
50°-60°	1083.5	15.9
60°-70°	791.8	11.6
70°-80°	421.3	6.2
80°-90°	97.4	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°	1973.2	28.9
0°-40°	3199.2	46.8
0°-60°	5523.3	80.8
0°-90°	6833.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6833.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2599	2599	2599	2599	2599	
5°	2565	2570	2590	2596	2574	243
15°	2431	2447	2470	2485	2452	685
25°	2201	2228	2265	2273	2239	1014
35°	1905	1935	1981	1995	1962	1191
45°	1557	1584	1636	1637	1605	1201
55°	1180	1204	1236	1218	1198	1055
65°	785	801	815	799	785	777
75°	389	398	407	392	384	414
85°	74	76	79	80	77	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2599.3	2599.3	2599.3	2599.3	2599.3
2.5°	2579.0	2587.4	2596.0	2599.8	2578.7
5°	2565.4	2570.3	2589.5	2595.5	2573.6
7.5°	2543.2	2550.5	2569.2	2571.9	2550.8
10°	2512.9	2525.9	2538.4	2551.9	2526.2
12.5°	2474.2	2491.8	2512.9	2515.3	2495.8
15°	2430.6	2446.8	2469.8	2484.7	2452.5
17.5°	2381.8	2397.5	2427.3	2430.0	2410.5
20°	2327.4	2346.9	2382.6	2388.9	2353.9
22.5°	2265.7	2291.9	2321.7	2327.7	2301.9
25°	2200.9	2228.0	2264.8	2273.2	2238.8
27.5°	2133.2	2159.2	2200.7	2206.6	2177.6
30°	2060.6	2085.0	2130.5	2140.5	2111.0
32.5°	1987.0	2011.4	2061.7	2070.1	2041.4
35°	1905.2	1935.0	1980.8	1994.6	1962.3
37.5°	1821.8	1850.8	1902.8	1915.2	1880.5
40°	1735.4	1764.1	1815.3	1825.6	1792.3
42.5°	1647.1	1675.8	1730.5	1732.1	1704.5
45°	1556.9	1584.5	1635.5	1636.8	1604.6
47.5°	1465.4	1493.3	1538.8	1533.6	1503.3
50°	1372.8	1399.3	1439.1	1428.8	1401.5
52.5°	1276.9	1302.6	1340.3	1323.5	1297.8
55°	1180.5	1204.3	1235.7	1217.9	1197.8
57.5°	1083.3	1107.4	1131.5	1113.3	1096.0
60°	985.2	1006.4	1026.1	1007.7	994.4
62.5°	885.6	903.7	920.8	903.2	890.7
65°	784.8	800.8	814.9	798.6	785.4
67.5°	684.6	698.2	711.2	694.4	680.6
70°	584.4	596.1	608.0	590.7	577.9
72.5°	485.6	495.9	506.4	489.6	478.5
75°	389.4	398.4	407.0	392.1	383.5
77.5°	297.6	305.2	311.2	301.7	293.3
80°	212.3	218.0	221.5	217.7	209.9
82.5°	136.5	140.6	142.4	142.2	137.0
85°	74.2	75.6	79.1	79.9	77.2
87.5°	28.7	30.6	31.4	33.9	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)