

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: P488861

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1HI-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: P488861
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-LD4-1HI-35-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

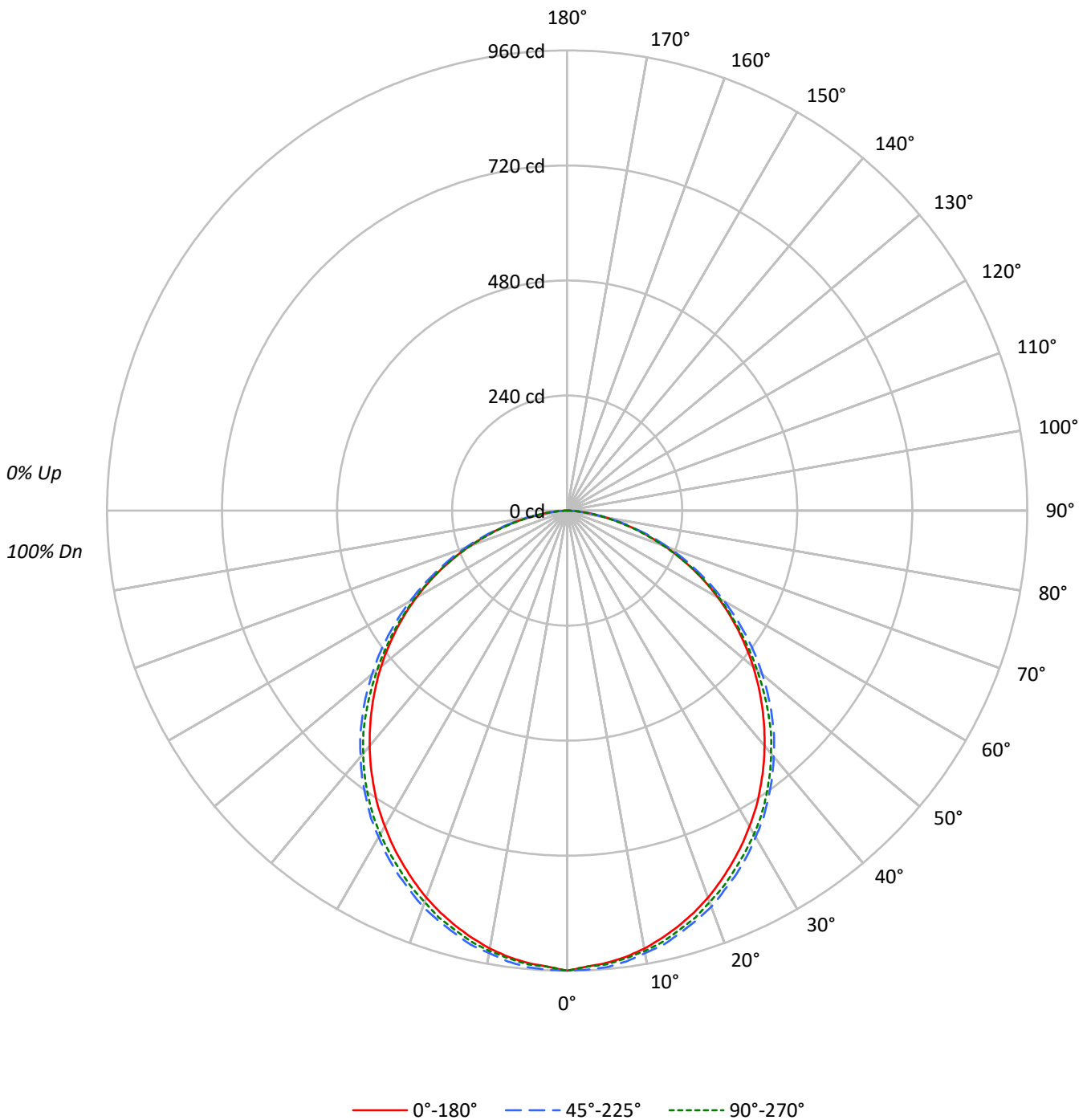
Lumens per Lamp: N/A
Luminaire Lumens: 2523.3 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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: P488861

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1HI-35-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P488861

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1HI-35-120-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	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°	2583	2583	2583
5°	2559	2583	2567
10°	2535	2561	2549
15°	2500	2540	2523
20°	2461	2519	2489
25°	2413	2483	2454
30°	2364	2444	2422
35°	2311	2403	2380
40°	2251	2355	2325
45°	2188	2298	2255
50°	2122	2225	2166
55°	2045	2141	2075
60°	1958	2039	1976
65°	1845	1916	1847
70°	1698	1766	1679
75°	1495	1563	1472
80°	1215	1268	1201
85°	846	902	880



TEST NUMBER: P488861

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1HI-35-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	3.6
10°-20°	256.1	10.2
20°-30°	382.0	15.1
30°-40°	452.7	17.9
40°-50°	458.1	18.2
50°-60°	400.1	15.9
60°-70°	292.4	11.6
70°-80°	155.6	6.2
80°-90°	36.0	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°	728.5	28.9
0°-40°	1181.2	46.8
0°-60°	2039.4	80.8
0°-90°	2523.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2523.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	947	949	956	958	950	90
15°	897	903	912	917	906	253
25°	813	823	836	839	827	374
35°	704	714	731	736	725	440
45°	575	585	604	604	592	444
55°	436	445	456	450	442	390
65°	290	296	301	295	290	287
75°	144	147	150	145	142	153
85°	27	28	29	30	28	35
90°	0	0	0	0	0	



TEST NUMBER: P488861

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1HI-35-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	959.7	959.7	959.7	959.7	959.7
2.5°	952.2	955.3	958.5	959.9	952.1
5°	947.2	949.0	956.1	958.3	950.2
7.5°	939.0	941.7	948.6	949.6	941.8
10°	927.8	932.6	937.2	942.2	932.7
12.5°	913.5	920.0	927.8	928.7	921.5
15°	897.4	903.4	911.9	917.4	905.5
17.5°	879.4	885.2	896.2	897.2	890.0
20°	859.3	866.5	879.7	882.0	869.1
22.5°	836.5	846.2	857.2	859.4	849.9
25°	812.6	822.6	836.2	839.3	826.6
27.5°	787.6	797.2	812.5	814.7	804.0
30°	760.8	769.8	786.6	790.3	779.4
32.5°	733.7	742.7	761.2	764.3	753.7
35°	703.5	714.5	731.4	736.5	724.6
37.5°	672.7	683.4	702.6	707.2	694.4
40°	640.8	651.4	670.3	674.1	661.8
42.5°	608.2	618.8	639.0	639.6	629.4
45°	574.9	585.1	603.9	604.4	592.5
47.5°	541.1	551.4	568.2	566.3	555.1
50°	506.9	516.7	531.4	527.6	517.5
52.5°	471.5	481.0	494.9	488.7	479.2
55°	435.9	444.7	456.3	449.7	442.3
57.5°	400.0	408.9	417.8	411.1	404.7
60°	363.8	371.6	378.9	372.1	367.2
62.5°	327.0	333.7	340.0	333.5	328.9
65°	289.8	295.7	300.9	294.9	290.0
67.5°	252.8	257.8	262.6	256.4	251.3
70°	215.8	220.1	224.5	218.1	213.4
72.5°	179.3	183.1	187.0	180.8	176.7
75°	143.8	147.1	150.3	144.8	141.6
77.5°	109.9	112.7	114.9	111.4	108.3
80°	78.4	80.5	81.8	80.4	77.5
82.5°	50.4	51.9	52.6	52.5	50.6
85°	27.4	27.9	29.2	29.5	28.5
87.5°	10.6	11.3	11.6	12.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)