

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: P489414

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1LO-40-120-EDD-90**

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: P489414
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-24-4-INS-A12125-LD4-1LO-40-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

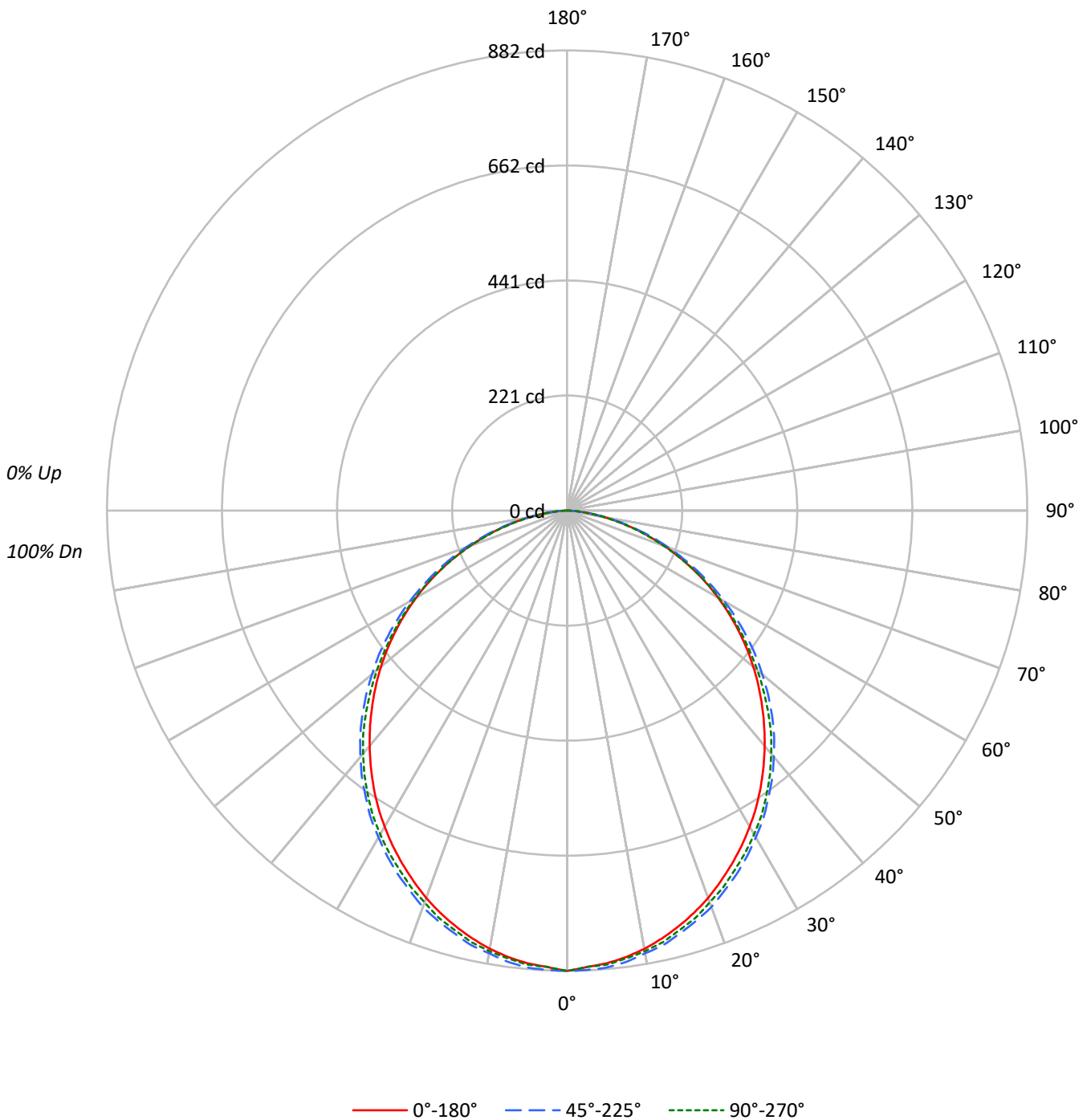
Lumens per Lamp: N/A
Luminaire Lumens: 2319.8 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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

TEST NUMBER: P489414

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-1LO-40-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P489414

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-1LO-40-120-EDD-90

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°	1187	1187	1187
5°	1176	1187	1180
10°	1165	1177	1172
15°	1149	1168	1160
20°	1131	1158	1144
25°	1109	1141	1128
30°	1087	1124	1113
35°	1062	1104	1094
40°	1035	1082	1069
45°	1006	1056	1036
50°	975	1023	996
55°	940	984	954
60°	900	937	908
65°	848	881	849
70°	780	812	772
75°	687	718	677
80°	559	583	552
85°	389	414	404



TEST NUMBER: P489414

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-1LO-40-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	3.6
10°-20°	235.5	10.2
20°-30°	351.2	15.1
30°-40°	416.2	17.9
40°-50°	421.1	18.2
50°-60°	367.8	15.9
60°-70°	268.8	11.6
70°-80°	143.0	6.2
80°-90°	33.1	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°	669.8	28.9
0°-40°	1086.0	46.8
0°-60°	1874.9	80.8
0°-90°	2319.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2319.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	871	872	879	881	874	83
15°	825	831	838	844	832	233
25°	747	756	769	772	760	344
35°	647	657	672	677	666	404
45°	528	538	555	556	545	408
55°	401	409	420	413	407	358
65°	266	272	277	271	267	264
75°	132	135	138	133	130	141
85°	25	26	27	27	26	32
90°	0	0	0	0	0	



TEST NUMBER: P489414

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-1LO-40-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.4	882.4	882.4	882.4	882.4
2.5°	875.5	878.3	881.3	882.6	875.4
5°	870.9	872.5	879.1	881.1	873.6
7.5°	863.3	865.8	872.2	873.1	865.9
10°	853.0	857.5	861.7	866.3	857.5
12.5°	839.9	845.9	853.0	853.9	847.3
15°	825.1	830.6	838.4	843.5	832.5
17.5°	808.5	813.9	824.0	824.9	818.3
20°	790.1	796.7	808.8	810.9	799.1
22.5°	769.1	778.0	788.1	790.2	781.4
25°	747.1	756.3	768.8	771.7	760.0
27.5°	724.2	733.0	747.0	749.1	739.2
30°	699.5	707.8	723.2	726.6	716.6
32.5°	674.5	682.8	699.9	702.7	693.0
35°	646.7	656.9	672.4	677.1	666.1
37.5°	618.4	628.3	645.9	650.1	638.4
40°	589.1	598.8	616.2	619.7	608.4
42.5°	559.1	568.9	587.4	588.0	578.6
45°	528.5	537.9	555.2	555.6	544.7
47.5°	497.4	506.9	522.4	520.6	510.3
50°	466.0	475.0	488.5	485.0	475.8
52.5°	433.5	442.2	455.0	449.3	440.5
55°	400.7	408.8	419.5	413.4	406.6
57.5°	367.7	375.9	384.1	377.9	372.1
60°	334.5	341.6	348.3	342.1	337.6
62.5°	300.6	306.8	312.6	306.6	302.4
65°	266.4	271.8	276.6	271.1	266.6
67.5°	232.4	237.0	241.4	235.7	231.0
70°	198.4	202.3	206.4	200.5	196.2
72.5°	164.8	168.3	171.9	166.2	162.4
75°	132.2	135.2	138.2	133.1	130.2
77.5°	101.0	103.6	105.6	102.4	99.6
80°	72.1	74.0	75.2	73.9	71.2
82.5°	46.3	47.7	48.4	48.3	46.5
85°	25.2	25.6	26.8	27.1	26.2
87.5°	9.7	10.4	10.7	11.5	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)