

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: P488910

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2LO-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: P488910
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-LD4-2LO-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

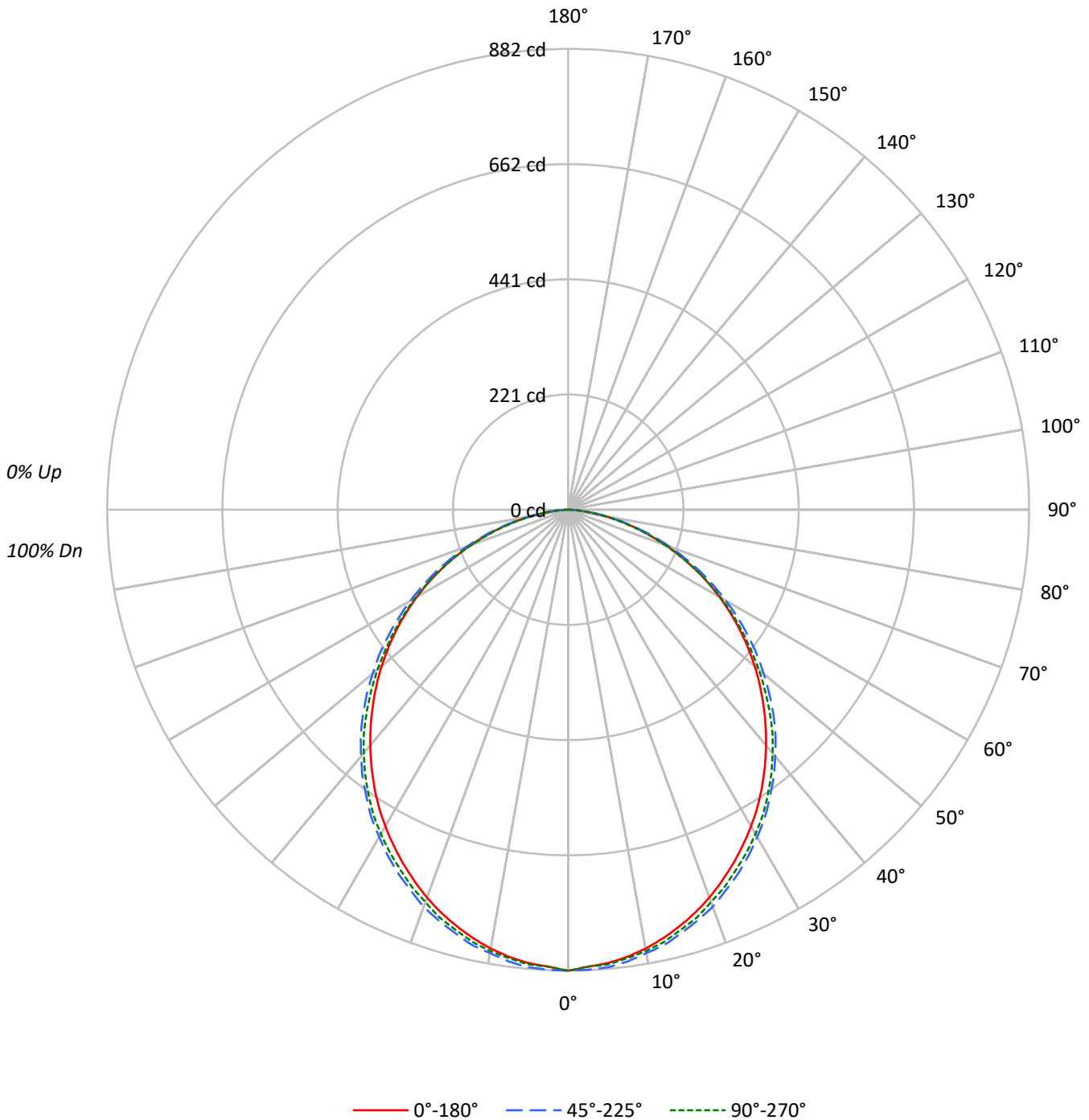
Lumens per Lamp: N/A
Luminaire Lumens: 2319.7 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P488910

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-2LO-40-120-EDD-90

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°	2374	2374	2374
5°	2352	2374	2360
10°	2331	2354	2343
15°	2299	2336	2319
20°	2262	2316	2288
25°	2218	2283	2257
30°	2174	2247	2227
35°	2124	2209	2188
40°	2069	2165	2137
45°	2011	2113	2073
50°	1951	2045	1991
55°	1880	1968	1908
60°	1800	1875	1817
65°	1696	1761	1698
70°	1561	1624	1544
75°	1375	1437	1354
80°	1117	1165	1103
85°	778	827	809



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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°	2319.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2319.7	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	843	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.3	882.3	882.3	882.3	882.3
2.5°	875.4	878.3	881.2	882.5	875.3
5°	870.8	872.5	879.0	881.0	873.6
7.5°	863.3	865.8	872.1	873.0	865.9
10°	853.0	857.4	861.6	866.2	857.5
12.5°	839.9	845.8	853.0	853.8	847.2
15°	825.1	830.6	838.4	843.4	832.5
17.5°	808.5	813.8	824.0	824.9	818.3
20°	790.0	796.7	808.8	810.9	799.0
22.5°	769.1	778.0	788.1	790.1	781.4
25°	747.1	756.3	768.8	771.6	760.0
27.5°	724.1	732.9	747.0	749.0	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	656.8	672.4	677.1	666.1
37.5°	618.4	628.2	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	522.3	520.6	510.3
50°	466.0	475.0	488.5	485.0	475.7
52.5°	433.4	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	372.0
60°	334.4	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)