

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: P488946

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3LO-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: P488946
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-LD4-3LO-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

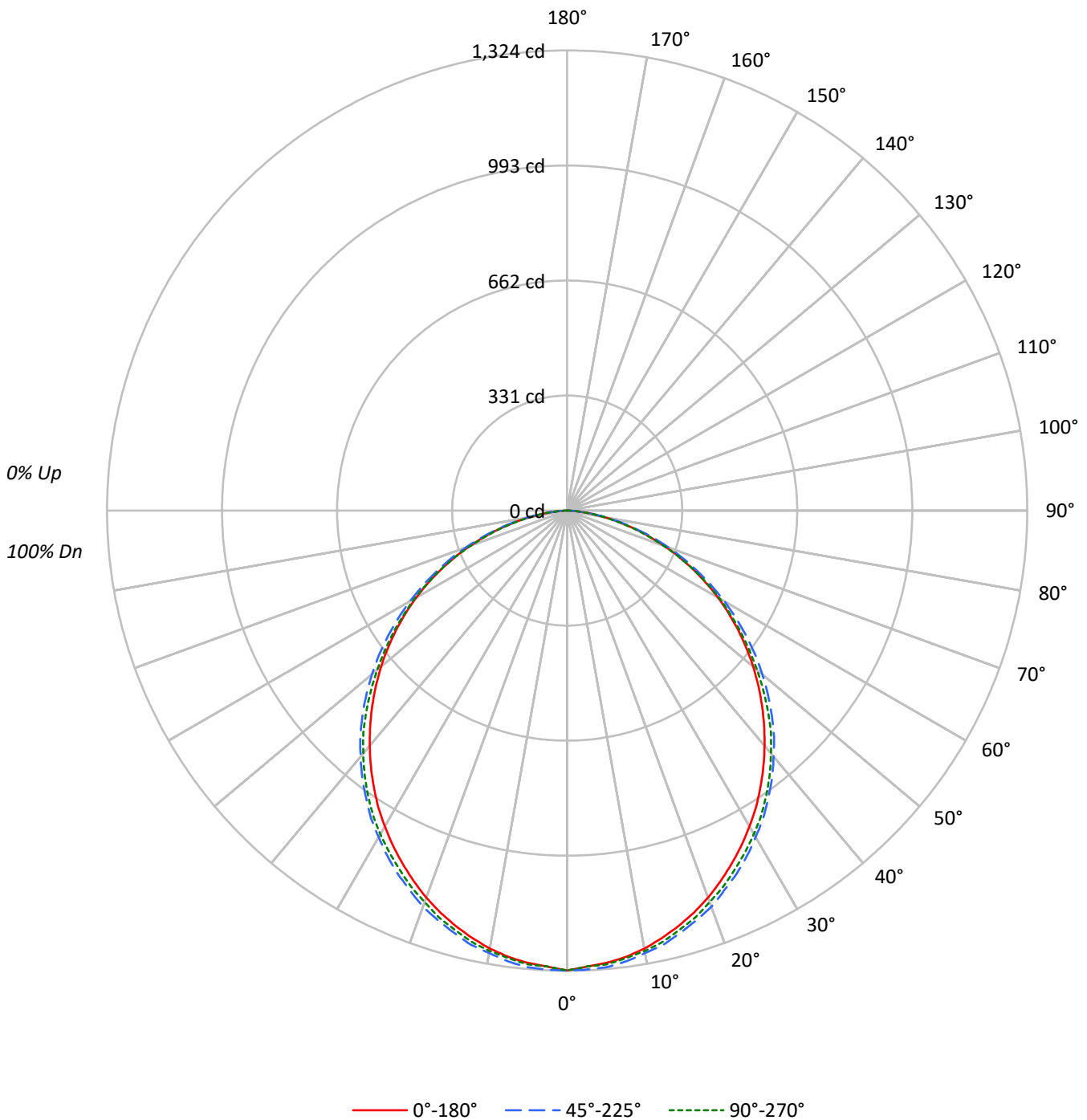
Lumens per Lamp: N/A
Luminaire Lumens: 3479.6 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3562	3562	3562
5°	3529	3562	3540
10°	3496	3532	3515
15°	3448	3504	3479
20°	3394	3474	3432
25°	3328	3424	3385
30°	3260	3371	3340
35°	3187	3313	3282
40°	3104	3247	3206
45°	3017	3169	3109
50°	2926	3068	2987
55°	2820	2952	2861
60°	2700	2812	2725
65°	2544	2642	2546
70°	2341	2436	2316
75°	2062	2155	2031
80°	1675	1748	1657
85°	1167	1244	1213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.6	3.6
10°-20°	353.2	10.2
20°-30°	526.8	15.1
30°-40°	624.3	17.9
40°-50°	631.7	18.2
50°-60°	551.7	15.9
60°-70°	403.2	11.6
70°-80°	214.5	6.2
80°-90°	49.6	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°	1004.7	28.9
0°-40°	1629.0	46.8
0°-60°	2812.4	80.8
0°-90°	3479.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3479.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1324	1324	1324	1324	1324	
5°	1306	1309	1319	1322	1310	124
15°	1238	1246	1258	1265	1249	349
25°	1121	1134	1153	1158	1140	516
35°	970	985	1009	1016	999	607
45°	793	807	833	833	817	612
55°	601	613	629	620	610	537
65°	400	408	415	407	400	395
75°	198	203	207	200	195	211
85°	38	38	40	41	39	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1323.5	1323.5	1323.5	1323.5	1323.5
2.5°	1313.2	1317.4	1321.9	1323.8	1313.0
5°	1306.3	1308.8	1318.6	1321.6	1310.4
7.5°	1295.0	1298.7	1308.2	1309.6	1298.8
10°	1279.5	1286.1	1292.5	1299.4	1286.3
12.5°	1259.8	1268.8	1279.5	1280.8	1270.8
15°	1237.6	1245.9	1257.6	1265.2	1248.8
17.5°	1212.8	1220.8	1236.0	1237.3	1227.4
20°	1185.1	1195.0	1213.2	1216.4	1198.6
22.5°	1153.6	1167.0	1182.2	1185.2	1172.1
25°	1120.7	1134.5	1153.2	1157.5	1140.0
27.5°	1086.2	1099.4	1120.5	1123.6	1108.8
30°	1049.2	1061.7	1084.8	1089.9	1074.9
32.5°	1011.7	1024.1	1049.8	1054.1	1039.5
35°	970.1	985.3	1008.6	1015.6	999.2
37.5°	927.6	942.4	968.9	975.2	957.5
40°	883.6	898.2	924.3	929.6	912.6
42.5°	838.7	853.3	881.1	882.0	867.9
45°	792.8	806.8	832.7	833.4	817.0
47.5°	746.1	760.4	783.5	780.9	765.5
50°	699.0	712.5	732.8	727.5	713.6
52.5°	650.2	663.3	682.4	673.9	660.8
55°	601.1	613.2	629.2	620.1	609.9
57.5°	551.6	563.9	576.1	566.9	558.1
60°	501.7	512.4	522.5	513.1	506.4
62.5°	450.9	460.2	468.8	459.9	453.5
65°	399.6	407.8	414.9	406.7	399.9
67.5°	348.6	355.5	362.1	353.6	346.5
70°	297.6	303.5	309.6	300.7	294.3
72.5°	247.2	252.5	257.9	249.3	243.7
75°	198.3	202.8	207.3	199.7	195.3
77.5°	151.5	155.4	158.4	153.6	149.3
80°	108.1	111.0	112.8	110.9	106.9
82.5°	69.5	71.6	72.5	72.4	69.8
85°	37.8	38.5	40.3	40.7	39.3
87.5°	14.6	15.6	16.0	17.2	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)