

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: P488891

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2HI-20-120-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: P488891
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-LD4-2HI-20-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

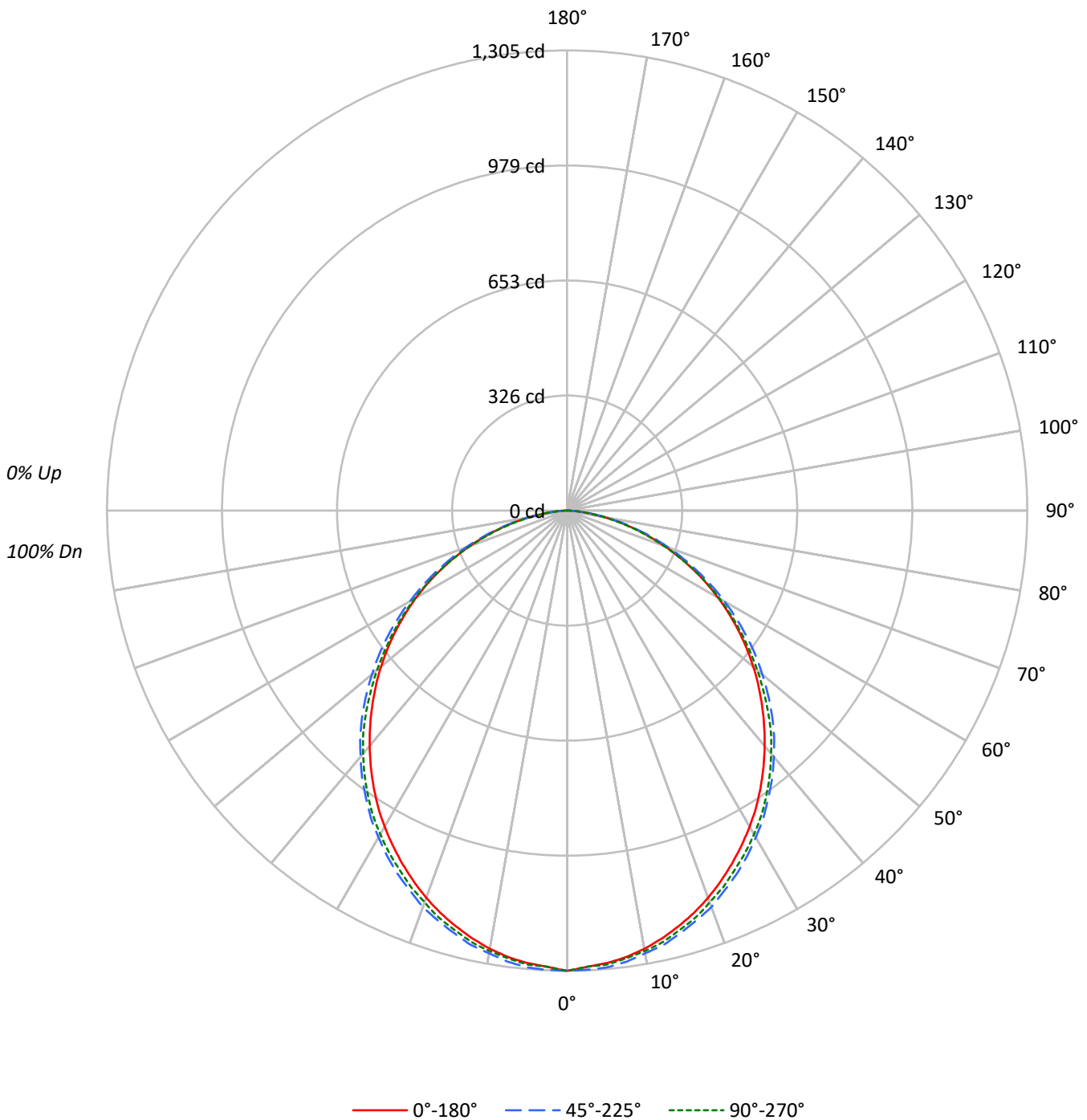
Lumens per Lamp: N/A
Luminaire Lumens: 3431.6 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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	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°	3513	3513	3513
5°	3480	3513	3491
10°	3448	3483	3466
15°	3400	3455	3431
20°	3347	3426	3385
25°	3282	3377	3338
30°	3215	3324	3294
35°	3143	3268	3237
40°	3061	3202	3162
45°	2975	3126	3067
50°	2886	3026	2946
55°	2781	2911	2822
60°	2662	2773	2688
65°	2509	2606	2511
70°	2309	2402	2283
75°	2034	2125	2002
80°	1652	1723	1633
85°	1152	1226	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	3.6
10°-20°	348.4	10.2
20°-30°	519.6	15.1
30°-40°	615.7	17.9
40°-50°	623.0	18.2
50°-60°	544.1	15.9
60°-70°	397.6	11.6
70°-80°	211.6	6.2
80°-90°	48.9	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°	990.8	28.9
0°-40°	1606.5	46.8
0°-60°	2773.6	80.8
0°-90°	3431.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3431.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1288	1291	1300	1303	1292	122
15°	1220	1229	1240	1248	1232	344
25°	1105	1119	1137	1142	1124	509
35°	957	972	995	1002	985	598
45°	782	796	821	822	806	603
55°	593	605	620	612	602	530
65°	394	402	409	401	394	390
75°	196	200	204	197	193	208
85°	37	38	40	40	39	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1305.3	1305.3	1305.3	1305.3	1305.3
2.5°	1295.1	1299.3	1303.6	1305.5	1294.9
5°	1288.3	1290.7	1300.4	1303.4	1292.3
7.5°	1277.1	1280.8	1290.2	1291.5	1280.9
10°	1261.9	1268.4	1274.7	1281.5	1268.5
12.5°	1242.4	1251.3	1261.9	1263.1	1253.3
15°	1220.5	1228.7	1240.3	1247.7	1231.6
17.5°	1196.1	1203.9	1218.9	1220.3	1210.5
20°	1168.7	1178.5	1196.5	1199.6	1182.0
22.5°	1137.7	1150.9	1165.9	1168.9	1155.9
25°	1105.2	1118.8	1137.3	1141.5	1124.3
27.5°	1071.2	1084.3	1105.1	1108.1	1093.5
30°	1034.8	1047.0	1069.9	1074.9	1060.1
32.5°	997.8	1010.0	1035.3	1039.5	1025.1
35°	956.7	971.7	994.7	1001.6	985.4
37.5°	914.8	929.4	955.5	961.7	944.3
40°	871.4	885.9	911.6	916.7	900.0
42.5°	827.1	841.5	869.0	869.8	855.9
45°	781.8	795.7	821.3	821.9	805.8
47.5°	735.9	749.9	772.7	770.1	754.9
50°	689.3	702.7	722.7	717.5	703.8
52.5°	641.2	654.1	673.0	664.6	651.7
55°	592.8	604.8	620.5	611.6	601.5
57.5°	544.0	556.1	568.2	559.1	550.4
60°	494.7	505.3	515.3	506.0	499.4
62.5°	444.7	453.8	462.4	453.5	447.3
65°	394.1	402.1	409.2	401.0	394.4
67.5°	343.8	350.6	357.1	348.7	341.7
70°	293.5	299.3	305.3	296.6	290.2
72.5°	243.8	249.0	254.3	245.9	240.3
75°	195.6	200.0	204.4	196.9	192.6
77.5°	149.5	153.3	156.3	151.5	147.3
80°	106.6	109.5	111.2	109.3	105.4
82.5°	68.5	70.6	71.5	71.4	68.8
85°	37.3	37.9	39.7	40.1	38.8
87.5°	14.4	15.4	15.8	17.0	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)