

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: P488356

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2HI-35-120-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: P488356
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-12-2-INS-A12125-LD4-2HI-35-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

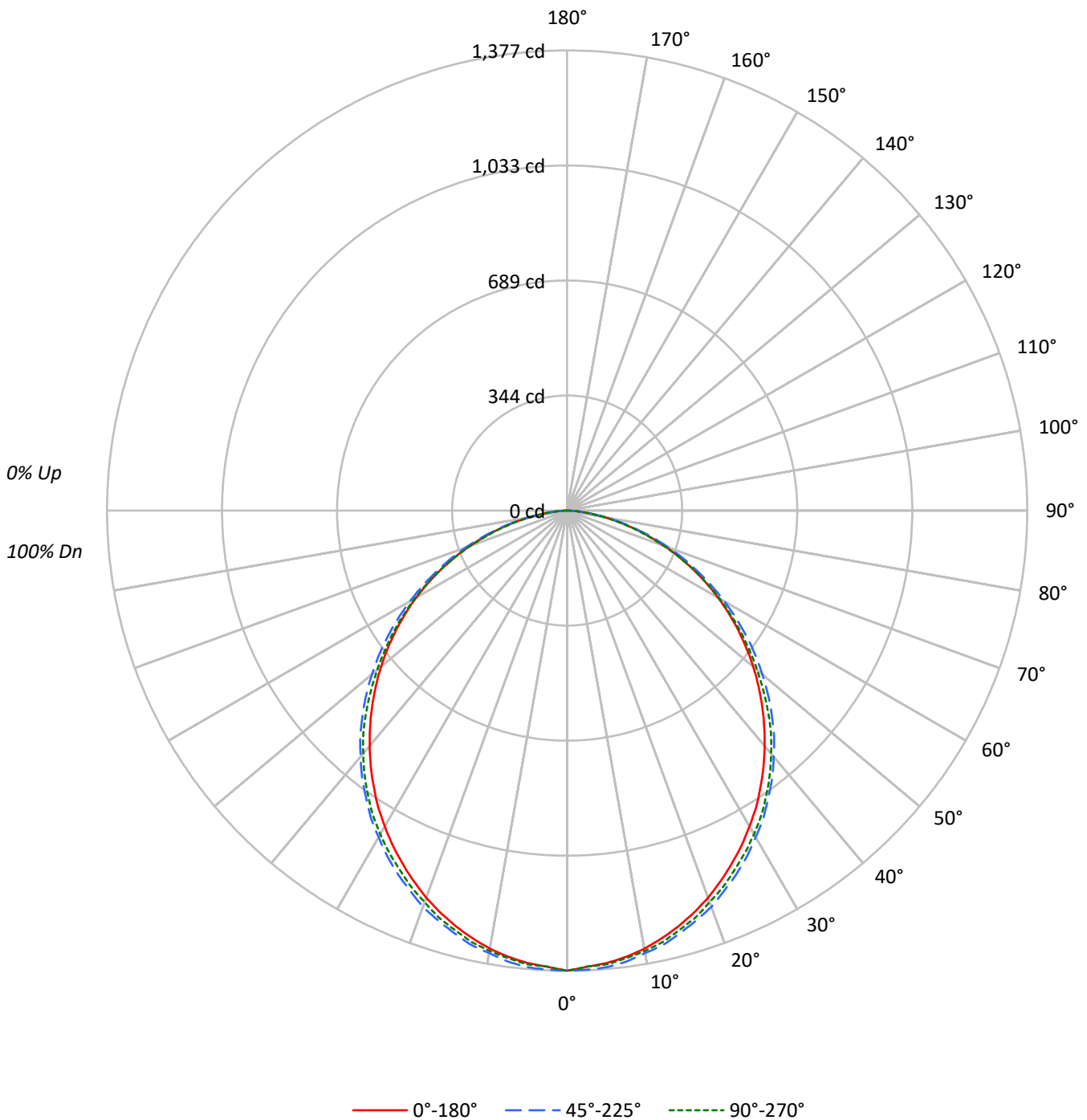
Lumens per Lamp: N/A
Luminaire Lumens: 3619.8 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7410	7410	7410
5°	7341	7411	7365
10°	7274	7348	7313
15°	7174	7290	7238
20°	7061	7229	7141
25°	6923	7124	7042
30°	6783	7013	6949
35°	6631	6893	6829
40°	6458	6756	6670
45°	6277	6594	6469
50°	6089	6383	6216
55°	5867	6142	5954
60°	5618	5850	5670
65°	5294	5496	5298
70°	4872	5067	4817
75°	4290	4483	4223
80°	3487	3636	3446
85°	2427	2587	2526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	3.6
10°-20°	367.5	10.2
20°-30°	548.0	15.1
30°-40°	649.4	17.9
40°-50°	657.1	18.2
50°-60°	573.9	15.9
60°-70°	419.4	11.6
70°-80°	223.2	6.2
80°-90°	51.6	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°	1045.2	28.9
0°-40°	1694.6	46.8
0°-60°	2925.7	80.8
0°-90°	3619.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3619.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1377	1377	1377	1377	1377	
5°	1359	1362	1372	1375	1363	129
15°	1288	1296	1308	1316	1299	363
25°	1166	1180	1200	1204	1186	537
35°	1009	1025	1049	1056	1039	631
45°	825	839	866	867	850	636
55°	625	638	655	645	634	559
65°	416	424	432	423	416	411
75°	206	211	216	208	203	219
85°	39	40	42	42	41	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1376.8	1376.8	1376.8	1376.8	1376.8
2.5°	1366.1	1370.5	1375.1	1377.1	1365.9
5°	1358.9	1361.5	1371.7	1374.8	1363.2
7.5°	1347.1	1351.0	1360.9	1362.4	1351.2
10°	1331.1	1338.0	1344.6	1351.7	1338.1
12.5°	1310.6	1319.9	1331.1	1332.4	1322.0
15°	1287.5	1296.1	1308.3	1316.2	1299.1
17.5°	1261.7	1270.0	1285.8	1287.2	1276.9
20°	1232.8	1243.1	1262.1	1265.4	1246.9
22.5°	1200.1	1214.0	1229.8	1233.0	1219.3
25°	1165.8	1180.2	1199.7	1204.1	1185.9
27.5°	1130.0	1143.7	1165.7	1168.8	1153.5
30°	1091.5	1104.4	1128.5	1133.8	1118.2
32.5°	1052.5	1065.4	1092.1	1096.5	1081.3
35°	1009.2	1025.0	1049.2	1056.5	1039.4
37.5°	965.0	980.3	1007.9	1014.5	996.1
40°	919.2	934.4	961.6	967.0	949.4
42.5°	872.5	887.7	916.7	917.5	902.9
45°	824.7	839.3	866.3	867.0	849.9
47.5°	776.2	791.0	815.1	812.4	796.3
50°	727.2	741.2	762.3	756.8	742.4
52.5°	676.4	690.0	709.9	701.0	687.4
55°	625.3	637.9	654.6	645.1	634.5
57.5°	573.8	586.6	599.3	589.7	580.5
60°	521.9	533.1	543.5	533.8	526.8
62.5°	469.1	478.7	487.7	478.4	471.8
65°	415.7	424.2	431.6	423.0	416.0
67.5°	362.6	369.8	376.7	367.8	360.5
70°	309.6	315.7	322.0	312.9	306.1
72.5°	257.2	262.7	268.3	259.4	253.5
75°	206.3	211.0	215.6	207.7	203.1
77.5°	157.7	161.7	164.8	159.8	155.4
80°	112.5	115.5	117.3	115.3	111.2
82.5°	72.3	74.5	75.5	75.3	72.6
85°	39.3	40.0	41.9	42.3	40.9
87.5°	15.2	16.2	16.6	17.9	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)