

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: P488353

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2HI-27-120-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: P488353
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-27-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

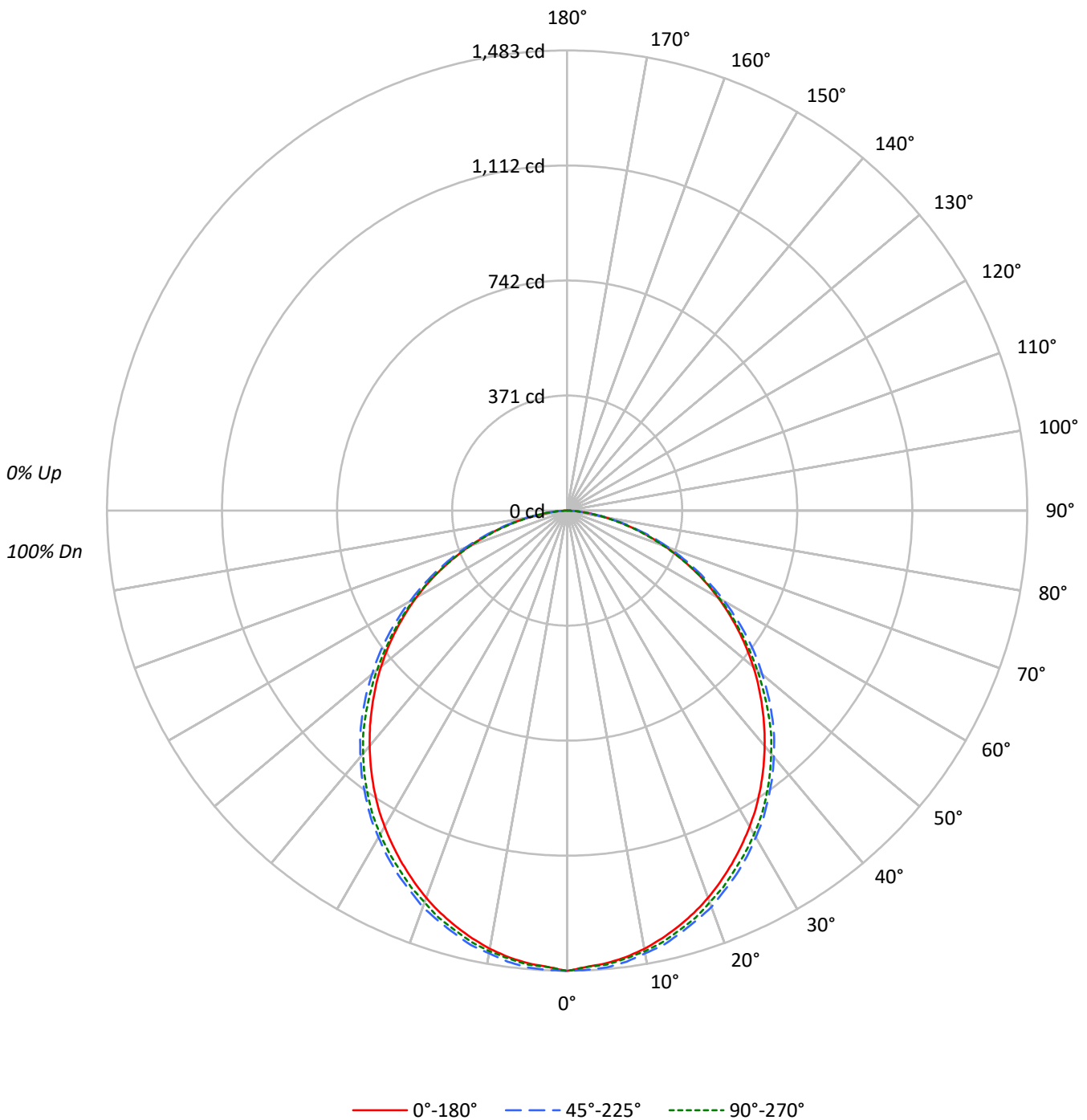
Lumens per Lamp: N/A
Luminaire Lumens: 3899.9 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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	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°	7984	7984	7984
5°	7910	7984	7935
10°	7837	7917	7879
15°	7729	7853	7798
20°	7607	7787	7694
25°	7459	7675	7587
30°	7308	7556	7487
35°	7144	7427	7358
40°	6958	7279	7186
45°	6763	7104	6970
50°	6559	6877	6697
55°	6321	6617	6414
60°	6053	6303	6109
65°	5704	5922	5708
70°	5248	5460	5190
75°	4620	4831	4550
80°	3756	3918	3713
85°	2612	2785	2717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	3.6
10°-20°	395.9	10.2
20°-30°	590.5	15.1
30°-40°	699.7	17.9
40°-50°	708.0	18.2
50°-60°	618.3	15.9
60°-70°	451.8	11.6
70°-80°	240.4	6.2
80°-90°	55.6	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°	1126.1	28.9
0°-40°	1825.8	46.8
0°-60°	3152.1	80.8
0°-90°	3899.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3899.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1483	1483	1483	1483	1483	
5°	1464	1467	1478	1481	1469	139
15°	1387	1396	1410	1418	1400	391
25°	1256	1272	1292	1297	1278	579
35°	1087	1104	1130	1138	1120	680
45°	888	904	933	934	916	685
55°	674	687	705	695	684	602
65°	448	457	465	456	448	443
75°	222	227	232	224	219	236
85°	42	43	45	46	44	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1483.4	1483.4	1483.4	1483.4	1483.4
2.5°	1471.8	1476.6	1481.5	1483.7	1471.6
5°	1464.1	1466.8	1477.8	1481.2	1468.7
7.5°	1451.4	1455.6	1466.2	1467.8	1455.7
10°	1434.1	1441.5	1448.6	1456.3	1441.7
12.5°	1412.0	1422.0	1434.1	1435.5	1424.3
15°	1387.1	1396.4	1409.5	1418.0	1399.6
17.5°	1359.3	1368.2	1385.2	1386.8	1375.7
20°	1328.2	1339.3	1359.7	1363.3	1343.4
22.5°	1293.0	1308.0	1325.0	1328.4	1313.7
25°	1256.0	1271.5	1292.5	1297.3	1277.7
27.5°	1217.4	1232.2	1255.9	1259.3	1242.7
30°	1176.0	1189.9	1215.9	1221.6	1204.7
32.5°	1133.9	1147.9	1176.6	1181.4	1165.0
35°	1087.3	1104.3	1130.4	1138.3	1119.9
37.5°	1039.7	1056.2	1085.9	1093.0	1073.2
40°	990.4	1006.7	1036.0	1041.8	1022.8
42.5°	940.0	956.4	987.6	988.5	972.7
45°	888.5	904.3	933.3	934.1	915.7
47.5°	836.3	852.2	878.2	875.2	857.9
50°	783.4	798.6	821.3	815.4	799.8
52.5°	728.7	743.4	764.9	755.3	740.6
55°	673.7	687.3	705.2	695.0	683.6
57.5°	618.2	632.0	645.7	635.4	625.5
60°	562.3	574.3	585.6	575.1	567.5
62.5°	505.4	515.7	525.5	515.4	508.3
65°	447.9	457.0	465.0	455.8	448.2
67.5°	390.7	398.4	405.9	396.3	388.4
70°	333.5	340.2	347.0	337.1	329.8
72.5°	277.1	283.0	289.0	279.4	273.1
75°	222.2	227.3	232.3	223.8	218.8
77.5°	169.9	174.2	177.6	172.2	167.4
80°	121.2	124.4	126.4	124.3	119.8
82.5°	77.9	80.2	81.3	81.1	78.2
85°	42.3	43.1	45.1	45.6	44.0
87.5°	16.4	17.5	17.9	19.3	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)