

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: P488584

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2LO-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: P488584
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-12-4-INS-A12125-LD4-2LO-35-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

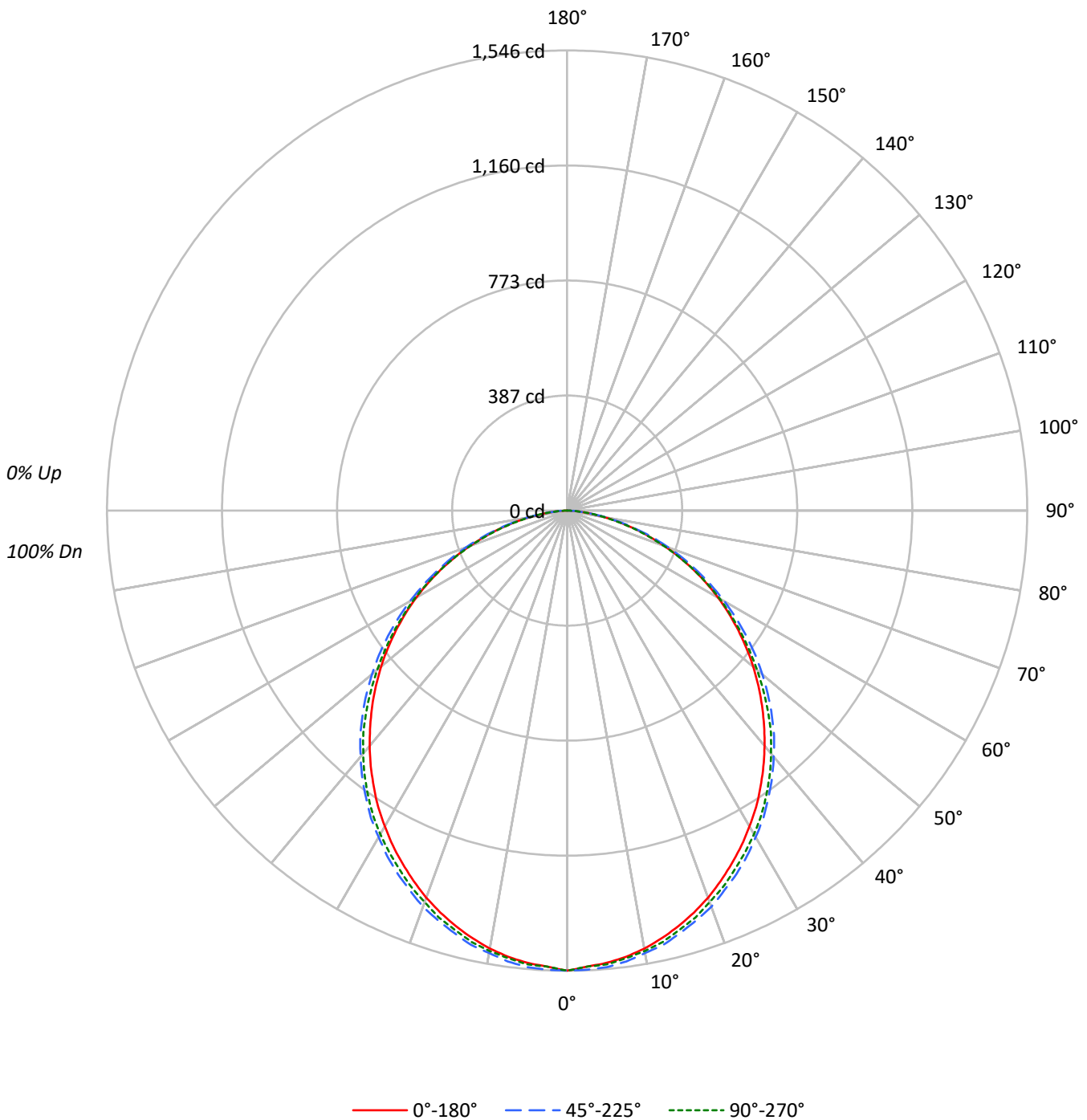
Lumens per Lamp: N/A
Luminaire Lumens: 4063.4 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	4159	4159	4159
5°	4120	4159	4134
10°	4083	4124	4104
15°	4026	4091	4063
20°	3963	4057	4008
25°	3886	3999	3953
30°	3807	3936	3900
35°	3722	3869	3833
40°	3625	3792	3744
45°	3523	3701	3631
50°	3417	3582	3489
55°	3293	3447	3341
60°	3153	3284	3182
65°	2972	3085	2974
70°	2734	2844	2703
75°	2408	2516	2371
80°	1956	2041	1934
85°	1362	1451	1417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	3.6
10°-20°	412.5	10.2
20°-30°	615.2	15.1
30°-40°	729.0	17.9
40°-50°	737.7	18.2
50°-60°	644.3	15.9
60°-70°	470.8	11.6
70°-80°	250.5	6.2
80°-90°	57.9	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°	1173.3	28.9
0°-40°	1902.3	46.8
0°-60°	3284.2	80.8
0°-90°	4063.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4063.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1546	1546	1546	1546	1546	
5°	1525	1528	1540	1543	1530	145
15°	1445	1455	1469	1478	1458	407
25°	1309	1325	1347	1352	1331	603
35°	1133	1151	1178	1186	1167	708
45°	926	942	972	973	954	714
55°	702	716	735	724	712	627
65°	467	476	484	475	467	462
75°	232	237	242	233	228	246
85°	44	45	47	48	46	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1545.6	1545.6	1545.6	1545.6	1545.6
2.5°	1533.5	1538.5	1543.6	1545.9	1533.3
5°	1525.4	1528.3	1539.8	1543.3	1530.3
7.5°	1512.2	1516.6	1527.7	1529.3	1516.7
10°	1494.2	1501.9	1509.3	1517.4	1502.1
12.5°	1471.2	1481.6	1494.2	1495.7	1484.1
15°	1445.3	1454.9	1468.6	1477.5	1458.3
17.5°	1416.3	1425.6	1443.3	1444.9	1433.3
20°	1383.9	1395.5	1416.7	1420.5	1399.7
22.5°	1347.2	1362.8	1380.5	1384.1	1368.8
25°	1308.7	1324.8	1346.7	1351.7	1331.2
27.5°	1268.4	1283.9	1308.5	1312.1	1294.8
30°	1225.3	1239.8	1266.8	1272.8	1255.2
32.5°	1181.5	1196.0	1225.9	1230.9	1213.8
35°	1132.9	1150.6	1177.8	1186.0	1166.8
37.5°	1083.3	1100.5	1131.4	1138.8	1118.2
40°	1031.9	1049.0	1079.4	1085.5	1065.7
42.5°	979.4	996.5	1029.0	1030.0	1013.5
45°	925.8	942.2	972.5	973.3	954.1
47.5°	871.3	887.9	915.0	911.9	893.9
50°	816.3	832.0	855.7	849.6	833.3
52.5°	759.3	774.6	796.9	787.0	771.7
55°	701.9	716.1	734.8	724.2	712.2
57.5°	644.1	658.5	672.8	662.0	651.7
60°	585.8	598.4	610.1	599.2	591.3
62.5°	526.6	537.4	547.5	537.0	529.6
65°	466.7	476.2	484.5	474.9	467.0
67.5°	407.1	415.1	422.9	412.9	404.7
70°	347.5	354.4	361.5	351.2	343.6
72.5°	288.7	294.8	301.1	291.1	284.5
75°	231.6	236.9	242.0	233.2	228.0
77.5°	177.0	181.5	185.0	179.4	174.4
80°	126.2	129.6	131.7	129.5	124.8
82.5°	81.2	83.6	84.7	84.5	81.5
85°	44.1	44.9	47.0	47.5	45.9
87.5°	17.1	18.2	18.7	20.1	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)