

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: P488581

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2LO-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: P488581
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-27-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

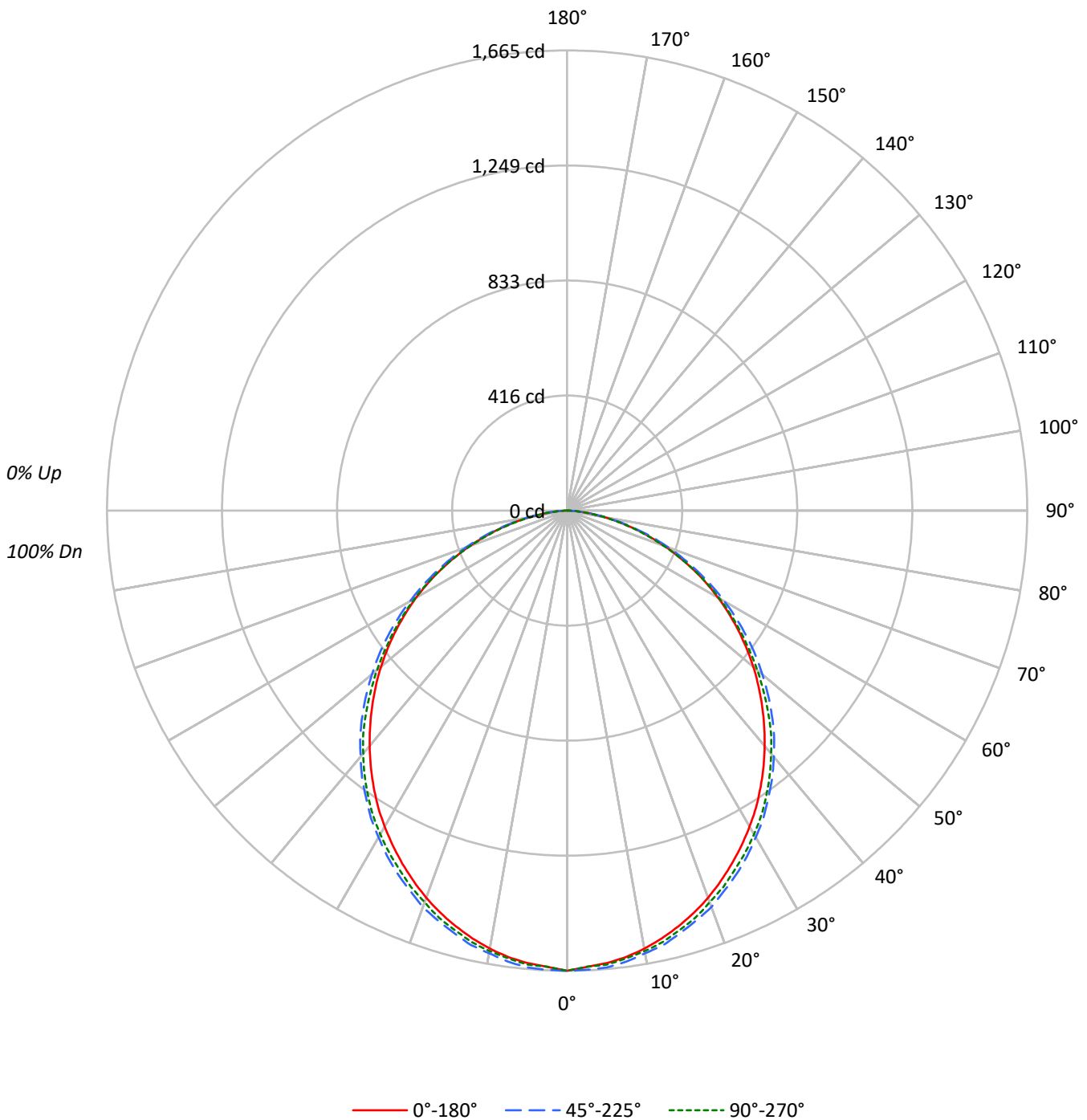
Lumens per Lamp: N/A
Luminaire Lumens: 4377.9 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-2LO-27-120-EDD

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°	4481	4481	4481
5°	4440	4481	4454
10°	4399	4444	4422
15°	4338	4408	4377
20°	4270	4371	4318
25°	4187	4308	4259
30°	4102	4241	4202
35°	4009	4168	4130
40°	3906	4085	4033
45°	3796	3987	3912
50°	3682	3859	3759
55°	3548	3714	3600
60°	3397	3538	3429
65°	3202	3324	3203
70°	2946	3065	2913
75°	2594	2712	2555
80°	2108	2199	2084
85°	1467	1565	1525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.8	3.6
10°-20°	444.4	10.2
20°-30°	662.8	15.1
30°-40°	785.5	17.9
40°-50°	794.8	18.2
50°-60°	694.1	15.9
60°-70°	507.2	11.6
70°-80°	269.9	6.2
80°-90°	62.4	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°	1264.1	28.9
0°-40°	2049.5	46.8
0°-60°	3538.4	80.8
0°-90°	4377.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4377.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1665	1665	1665	1665	1665	
5°	1644	1647	1659	1663	1649	156
15°	1557	1568	1582	1592	1571	439
25°	1410	1427	1451	1456	1434	650
35°	1220	1240	1269	1278	1257	763
45°	997	1015	1048	1049	1028	769
55°	756	772	792	780	767	676
65°	503	513	522	512	503	498
75°	250	255	261	251	246	265
85°	48	48	51	51	49	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1665.2	1665.2	1665.2	1665.2	1665.2
2.5°	1652.2	1657.6	1663.1	1665.5	1652.0
5°	1643.5	1646.6	1659.0	1662.8	1648.7
7.5°	1629.3	1634.0	1645.9	1647.7	1634.1
10°	1609.9	1618.2	1626.2	1634.8	1618.4
12.5°	1585.0	1596.3	1609.9	1611.4	1598.9
15°	1557.1	1567.5	1582.3	1591.8	1571.2
17.5°	1525.9	1535.9	1555.0	1556.8	1544.3
20°	1491.0	1503.5	1526.4	1530.4	1508.0
22.5°	1451.5	1468.3	1487.4	1491.2	1474.7
25°	1410.0	1427.3	1450.9	1456.3	1434.3
27.5°	1366.6	1383.3	1409.8	1413.6	1395.1
30°	1320.1	1335.7	1364.9	1371.3	1352.4
32.5°	1272.9	1288.5	1320.8	1326.2	1307.8
35°	1220.5	1239.6	1268.9	1277.8	1257.1
37.5°	1167.1	1185.7	1219.0	1227.0	1204.7
40°	1111.8	1130.1	1162.9	1169.5	1148.2
42.5°	1055.2	1073.6	1108.6	1109.7	1092.0
45°	997.4	1015.1	1047.7	1048.6	1028.0
47.5°	938.8	956.6	985.8	982.5	963.1
50°	879.4	896.4	921.9	915.4	897.8
52.5°	818.0	834.5	858.6	847.9	831.4
55°	756.3	771.5	791.7	780.2	767.4
57.5°	694.0	709.4	724.9	713.2	702.1
60°	631.2	644.7	657.4	645.6	637.1
62.5°	567.3	579.0	589.9	578.6	570.6
65°	502.8	513.0	522.0	511.6	503.1
67.5°	438.6	447.3	455.6	444.8	436.0
70°	374.4	381.9	389.5	378.4	370.2
72.5°	311.1	317.7	324.4	313.7	306.6
75°	249.5	255.2	260.8	251.2	245.7
77.5°	190.7	195.5	199.3	193.3	187.9
80°	136.0	139.7	141.9	139.5	134.5
82.5°	87.4	90.0	91.3	91.1	87.8
85°	47.5	48.4	50.7	51.2	49.4
87.5°	18.4	19.6	20.1	21.7	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)