

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: P489442

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2LO-20-120-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: P489442
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-24-4-INS-A12125-LD4-2LO-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

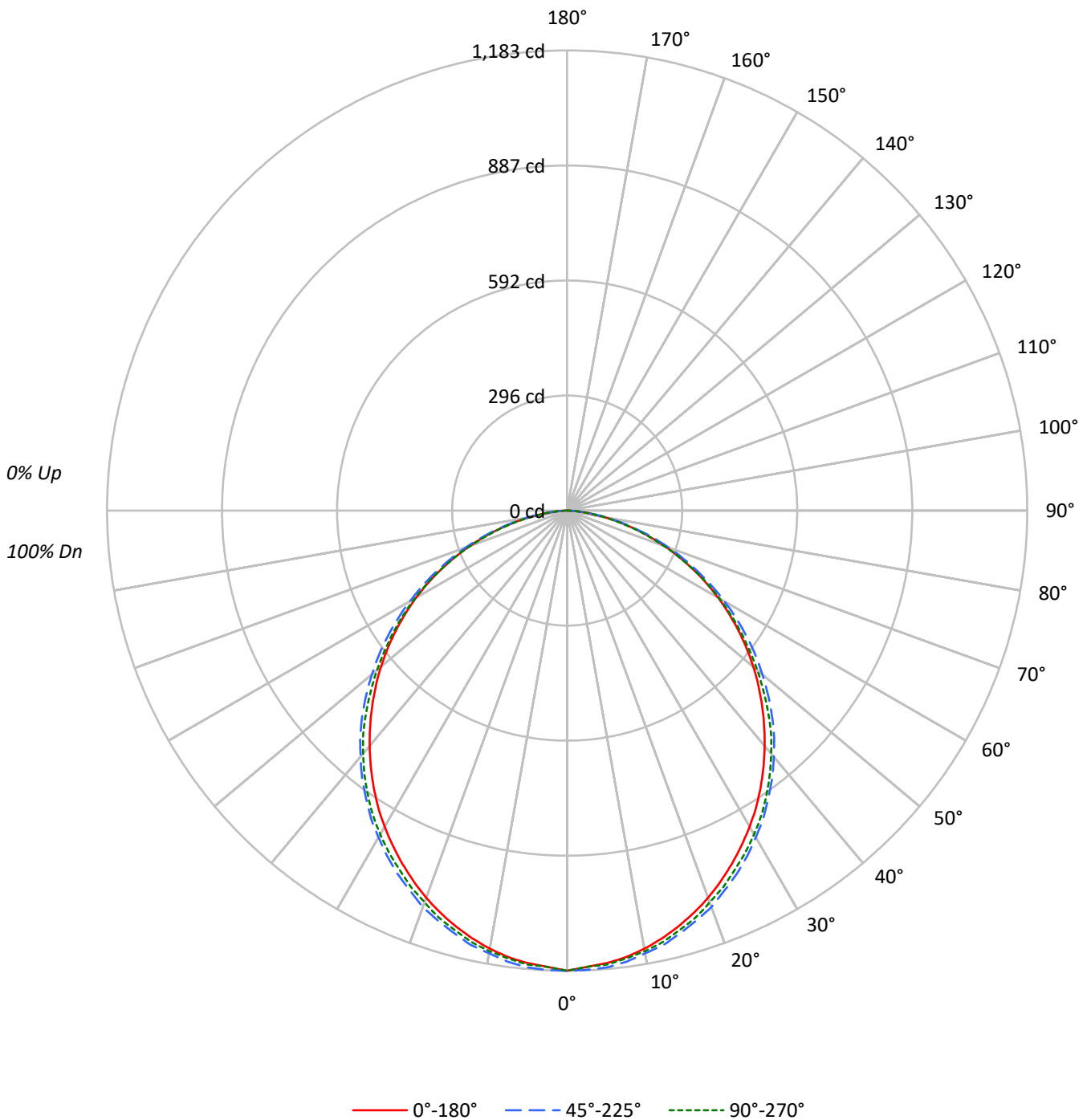
Lumens per Lamp: N/A
Luminaire Lumens: 3110.8 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1592	1592	1592
5°	1577	1592	1582
10°	1563	1579	1571
15°	1541	1566	1555
20°	1517	1553	1534
25°	1487	1531	1513
30°	1457	1507	1493
35°	1425	1481	1467
40°	1388	1451	1433
45°	1349	1417	1390
50°	1308	1371	1335
55°	1261	1320	1279
60°	1207	1257	1218
65°	1138	1181	1138
70°	1046	1089	1035
75°	922	963	908
80°	749	781	740
85°	522	556	542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.6
10°-20°	315.8	10.2
20°-30°	471.0	15.1
30°-40°	558.1	17.9
40°-50°	564.7	18.2
50°-60°	493.2	15.9
60°-70°	360.4	11.6
70°-80°	191.8	6.2
80°-90°	44.3	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°	898.2	28.9
0°-40°	1456.3	46.8
0°-60°	2514.3	80.8
0°-90°	3110.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3110.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1183	1183	1183	1183	1183	
5°	1168	1170	1179	1182	1172	111
15°	1106	1114	1124	1131	1116	312
25°	1002	1014	1031	1035	1019	462
35°	867	881	902	908	893	542
45°	709	721	744	745	730	547
55°	537	548	562	554	545	480
65°	357	364	371	364	358	354
75°	177	181	185	178	175	188
85°	34	34	36	36	35	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1183.2	1183.2	1183.2	1183.2	1183.2
2.5°	1174.0	1177.8	1181.8	1183.5	1173.9
5°	1167.8	1170.0	1178.8	1181.5	1171.5
7.5°	1157.7	1161.0	1169.6	1170.8	1161.2
10°	1143.9	1149.8	1155.5	1161.7	1150.0
12.5°	1126.3	1134.3	1143.9	1145.0	1136.1
15°	1106.4	1113.8	1124.3	1131.1	1116.4
17.5°	1084.2	1091.4	1105.0	1106.2	1097.3
20°	1059.5	1068.3	1084.6	1087.4	1071.5
22.5°	1031.4	1043.3	1056.9	1059.6	1047.9
25°	1001.9	1014.2	1031.0	1034.8	1019.2
27.5°	971.1	982.9	1001.8	1004.5	991.3
30°	938.0	949.1	969.8	974.4	961.0
32.5°	904.5	915.6	938.5	942.3	929.3
35°	867.3	880.8	901.7	908.0	893.3
37.5°	829.3	842.5	866.2	871.8	856.1
40°	790.0	803.0	826.3	831.0	815.9
42.5°	749.8	762.9	787.8	788.5	775.9
45°	708.7	721.3	744.5	745.1	730.4
47.5°	667.1	679.8	700.5	698.1	684.3
50°	624.9	637.0	655.1	650.4	638.0
52.5°	581.3	593.0	610.1	602.5	590.8
55°	537.4	548.2	562.5	554.4	545.3
57.5°	493.1	504.1	515.1	506.8	498.9
60°	448.5	458.1	467.1	458.7	452.7
62.5°	403.1	411.4	419.2	411.1	405.5
65°	357.3	364.5	370.9	363.6	357.5
67.5°	311.7	317.8	323.7	316.1	309.8
70°	266.0	271.3	276.8	268.9	263.1
72.5°	221.0	225.7	230.5	222.9	217.8
75°	177.3	181.3	185.3	178.5	174.6
77.5°	135.5	138.9	141.6	137.3	133.5
80°	96.7	99.2	100.8	99.1	95.5
82.5°	62.1	64.0	64.8	64.7	62.4
85°	33.8	34.4	36.0	36.4	35.1
87.5°	13.1	13.9	14.3	15.4	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)