

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: P489428

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1STD-50-120-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: P489428
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-LD4-1STD-50-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

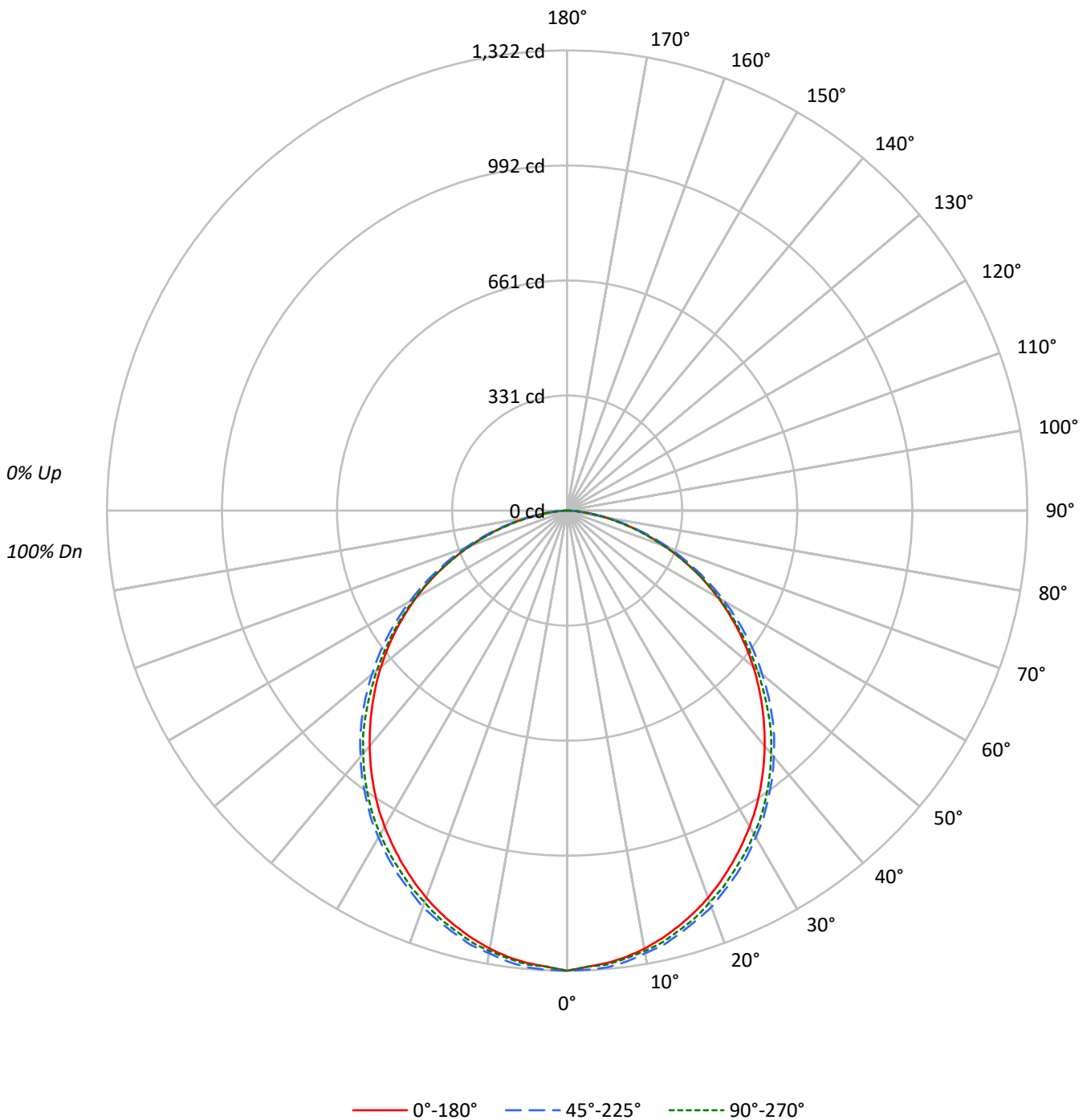
Lumens per Lamp: N/A
Luminaire Lumens: 3476.2 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	1779	1779	1779
5°	1763	1779	1768
10°	1746	1764	1756
15°	1722	1750	1738
20°	1695	1735	1714
25°	1662	1710	1691
30°	1629	1684	1668
35°	1592	1655	1640
40°	1551	1622	1601
45°	1507	1583	1553
50°	1462	1532	1492
55°	1409	1475	1429
60°	1349	1405	1361
65°	1271	1320	1272
70°	1170	1217	1157
75°	1030	1077	1014
80°	837	873	828
85°	582	621	607



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	3.6
10°-20°	352.9	10.2
20°-30°	526.3	15.1
30°-40°	623.7	17.9
40°-50°	631.1	18.2
50°-60°	551.1	15.9
60°-70°	402.8	11.6
70°-80°	214.3	6.2
80°-90°	49.5	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°	1003.7	28.9
0°-40°	1627.4	46.8
0°-60°	2809.6	80.8
0°-90°	3476.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3476.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1322	1322	1322	1322	1322	
5°	1305	1308	1317	1320	1309	124
15°	1236	1245	1256	1264	1248	349
25°	1120	1133	1152	1156	1139	516
35°	969	984	1008	1015	998	606
45°	792	806	832	833	816	611
55°	600	613	629	620	609	537
65°	399	407	414	406	400	395
75°	198	203	207	200	195	211
85°	38	38	40	41	39	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1322.2	1322.2	1322.2	1322.2	1322.2
2.5°	1311.9	1316.2	1320.6	1322.5	1311.8
5°	1305.0	1307.5	1317.3	1320.3	1309.1
7.5°	1293.7	1297.4	1306.9	1308.3	1297.6
10°	1278.3	1284.9	1291.2	1298.1	1285.0
12.5°	1258.6	1267.5	1278.3	1279.5	1269.6
15°	1236.4	1244.7	1256.4	1264.0	1247.6
17.5°	1211.6	1219.6	1234.7	1236.1	1226.2
20°	1183.9	1193.8	1212.0	1215.2	1197.4
22.5°	1152.5	1165.9	1181.0	1184.0	1171.0
25°	1119.6	1133.4	1152.1	1156.4	1138.9
27.5°	1085.1	1098.4	1119.4	1122.5	1107.7
30°	1048.2	1060.6	1083.8	1088.9	1073.8
32.5°	1010.7	1023.1	1048.8	1053.0	1038.4
35°	969.1	984.3	1007.6	1014.6	998.2
37.5°	926.7	941.5	967.9	974.2	956.6
40°	882.8	897.4	923.4	928.6	911.7
42.5°	837.9	852.5	880.3	881.1	867.1
45°	792.0	806.0	831.9	832.6	816.2
47.5°	745.4	759.6	782.8	780.1	764.7
50°	698.3	711.8	732.1	726.8	712.9
52.5°	649.5	662.6	681.8	673.2	660.1
55°	600.5	612.6	628.6	619.5	609.3
57.5°	551.0	563.3	575.6	566.3	557.5
60°	501.2	511.9	522.0	512.6	505.9
62.5°	450.5	459.7	468.4	459.4	453.1
65°	399.2	407.4	414.5	406.3	399.5
67.5°	348.3	355.1	361.8	353.2	346.2
70°	297.3	303.2	309.3	300.5	294.0
72.5°	247.0	252.2	257.6	249.1	243.4
75°	198.1	202.6	207.1	199.5	195.1
77.5°	151.4	155.3	158.3	153.5	149.2
80°	108.0	110.9	112.7	110.8	106.8
82.5°	69.4	71.5	72.5	72.3	69.7
85°	37.7	38.4	40.2	40.6	39.3
87.5°	14.6	15.6	16.0	17.2	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)