

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: METALUX

Report Number: P393556

Luminaire Tested: **24EN-LD2-49-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-35)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-49-UNV-L92765-W2A-1-U (3500K)
Description: 2X4 ENCOUNTER, 4900 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3913.9 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

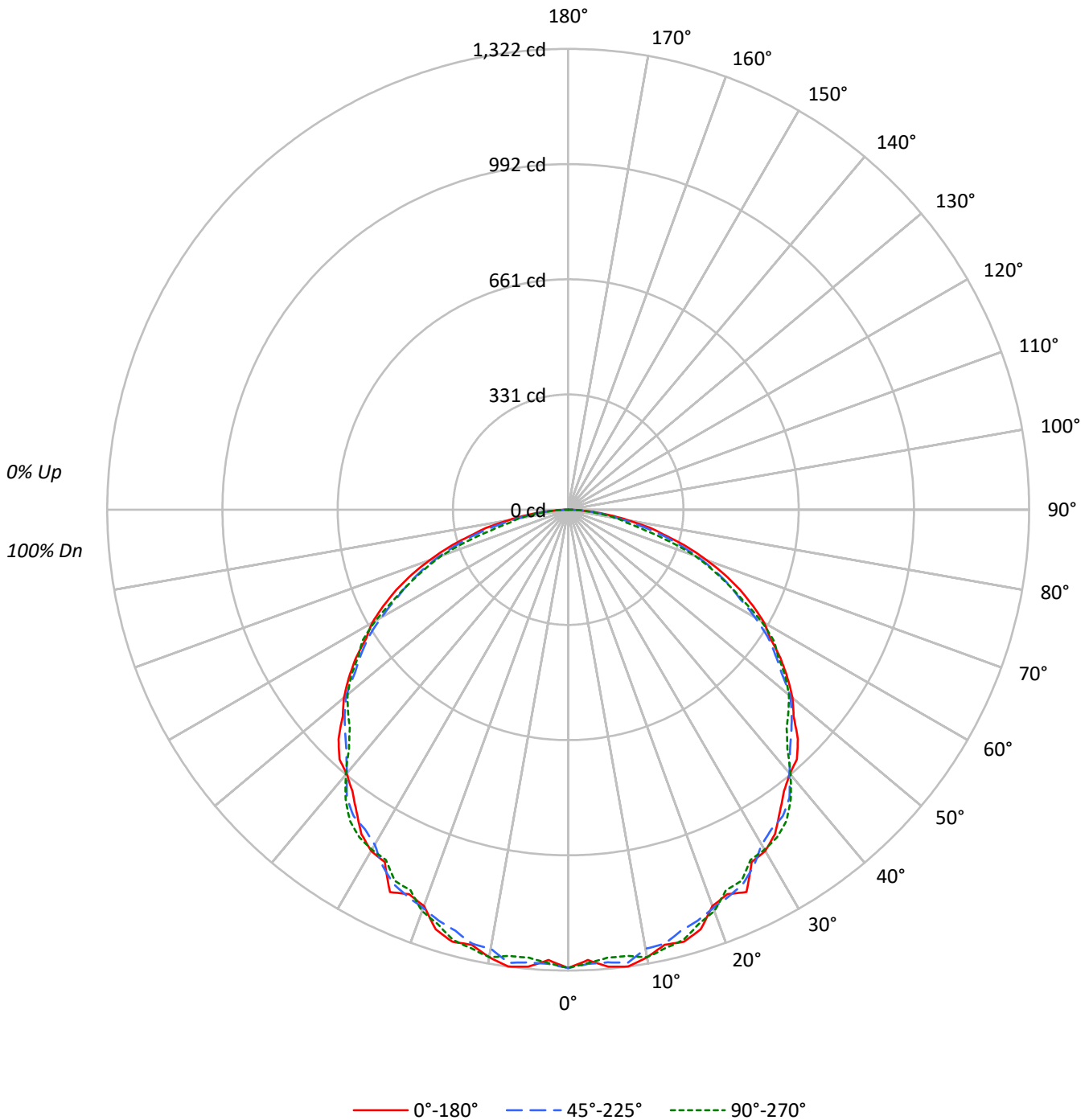
Input Watts (W): 34.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1769	1769	1769
5°	1778	1761	1742
10°	1781	1747	1781
15°	1787	1742	1779
20°	1732	1741	1754
25°	1796	1759	1745
30°	1756	1724	1750
35°	1738	1763	1791
40°	1736	1733	1743
45°	1772	1721	1685
50°	1757	1741	1729
55°	1744	1702	1724
60°	1748	1667	1720
65°	1730	1616	1604
70°	1657	1555	1520
75°	1519	1433	1194
80°	1344	1135	1099
85°	1113	1002	929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	3.2
10°-20°	357.3	9.1
20°-30°	541.5	13.8
30°-40°	666.6	17.0
40°-50°	701.2	17.9
50°-60°	652.4	16.7
60°-70°	509.9	13.0
70°-80°	285.8	7.3
80°-90°	75.6	1.9
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°	1022.5	26.1
0°-40°	1689.1	43.2
0°-60°	3042.6	77.7
0°-90°	3913.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3913.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1315	1315	1315	1315	1315	
5°	1316	1302	1304	1284	1290	125
15°	1283	1268	1250	1264	1277	359
25°	1210	1168	1185	1159	1175	544
35°	1058	1071	1073	1056	1090	664
45°	931	922	904	905	885	713
55°	744	738	725	724	735	664
65°	543	527	508	511	504	535
75°	292	286	276	243	230	314
85°	72	65	65	59	60	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1314.6	1314.6	1314.6	1314.6	1314.6
2.5°	1293.3	1318.6	1304.3	1321.0	1302.0
5°	1316.2	1302.0	1303.6	1283.8	1290.1
7.5°	1321.8	1268.7	1310.7	1289.3	1290.9
10°	1303.6	1279.8	1279.0	1278.2	1303.6
12.5°	1278.2	1287.7	1275.0	1263.2	1288.5
15°	1283.0	1267.9	1250.5	1264.0	1277.4
17.5°	1262.4	1255.2	1236.2	1271.1	1245.7
20°	1209.3	1237.0	1215.6	1234.7	1225.2
22.5°	1193.5	1216.4	1201.4	1213.3	1181.6
25°	1210.1	1168.1	1184.8	1159.4	1175.3
27.5°	1139.6	1131.7	1152.3	1143.6	1132.5
30°	1130.1	1117.4	1109.5	1110.3	1126.2
32.5°	1103.2	1089.7	1085.8	1092.9	1114.3
35°	1058.0	1070.7	1073.1	1056.5	1090.5
37.5°	1016.9	1026.4	1042.2	1041.4	1048.5
40°	988.4	1005.0	986.8	994.7	992.3
42.5°	970.9	955.9	940.8	945.6	930.5
45°	931.3	921.8	904.4	905.2	885.4
47.5°	876.7	864.8	869.6	856.1	856.9
50°	839.5	818.9	831.6	806.2	826.0
52.5°	792.7	784.0	771.4	763.4	784.8
55°	743.6	738.1	725.4	723.8	734.9
57.5°	686.6	681.9	677.9	677.1	699.3
60°	649.4	631.2	619.3	616.1	639.1
62.5°	597.1	589.2	557.5	564.7	567.0
65°	543.3	527.4	507.6	510.8	503.7
67.5°	485.5	457.0	452.2	453.0	445.1
70°	421.3	404.7	395.2	389.6	386.5
72.5°	360.3	346.9	335.8	321.5	307.3
75°	292.2	285.9	275.6	243.1	229.7
77.5°	240.0	232.8	210.7	175.0	172.6
80°	173.4	177.4	146.5	141.0	141.8
82.5°	122.8	119.6	109.3	102.2	98.2
85°	72.1	64.9	64.9	58.6	60.2
87.5°	23.8	26.9	26.9	26.1	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)