

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: P393650

Luminaire Tested: **24EN-LD2-67-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-38)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-67-UNV-L92765-W2A-1-U (2700K)
Description: 2X4 ENCOUNTER, 6700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4996.3 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

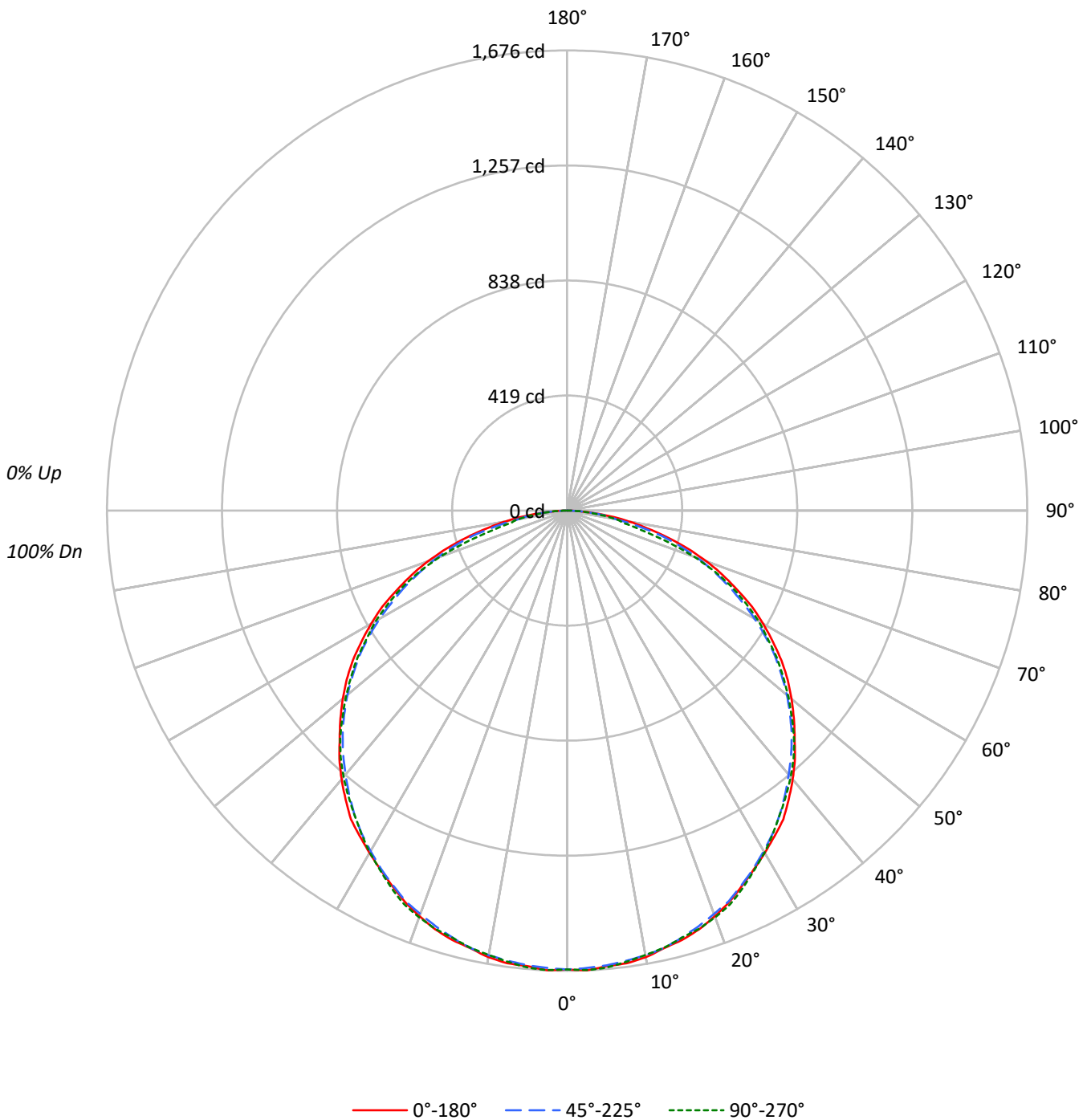
Input Watts (W): 48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	42	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°	2249	2249	2249
5°	2249	2245	2256
10°	2257	2247	2246
15°	2255	2243	2244
20°	2251	2238	2258
25°	2238	2233	2251
30°	2236	2225	2234
35°	2255	2219	2219
40°	2245	2205	2225
45°	2229	2201	2223
50°	2232	2187	2199
55°	2236	2169	2185
60°	2218	2123	2169
65°	2174	2062	2115
70°	2120	1990	1940
75°	1970	1849	1494
80°	1780	1413	1407
85°	1425	1298	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	3.2
10°-20°	455.2	9.1
20°-30°	695.2	13.9
30°-40°	847.1	17.0
40°-50°	896.8	17.9
50°-60°	830.8	16.6
60°-70°	652.3	13.1
70°-80°	363.6	7.3
80°-90°	97.0	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°	1308.6	26.2
0°-40°	2155.7	43.1
0°-60°	3883.3	77.7
0°-90°	4996.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4996.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1671	1671	1671	1671	1671	
5°	1665	1668	1662	1660	1671	159
15°	1619	1613	1611	1608	1611	457
25°	1508	1509	1504	1506	1516	696
35°	1373	1356	1351	1345	1351	856
45°	1172	1169	1156	1158	1168	906
55°	953	937	925	919	931	850
65°	683	669	648	656	664	677
75°	379	366	356	306	287	402
85°	92	85	84	77	77	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1671.4	1671.4	1671.4	1671.4	1671.4
2.5°	1675.9	1668.4	1667.6	1669.1	1675.1
5°	1665.4	1668.4	1662.4	1660.1	1670.6
7.5°	1663.1	1661.6	1653.4	1648.1	1657.1
10°	1651.9	1649.6	1644.4	1636.1	1643.6
12.5°	1632.3	1633.8	1631.6	1622.6	1630.8
15°	1618.8	1612.8	1610.6	1607.6	1611.3
17.5°	1599.3	1587.3	1588.1	1592.6	1597.1
20°	1572.3	1561.8	1563.3	1571.6	1576.8
22.5°	1543.0	1538.5	1539.3	1542.3	1552.0
25°	1507.8	1509.3	1504.0	1506.3	1516.0
27.5°	1473.2	1478.5	1469.5	1467.2	1475.5
30°	1439.5	1441.7	1432.0	1426.7	1438.0
32.5°	1405.7	1400.4	1393.7	1386.2	1395.2
35°	1372.7	1356.2	1350.9	1344.9	1350.9
37.5°	1325.4	1311.9	1303.6	1304.4	1309.6
40°	1278.1	1263.1	1255.6	1261.6	1266.9
42.5°	1227.8	1214.3	1207.6	1212.1	1221.1
45°	1171.5	1169.3	1156.5	1158.0	1168.5
47.5°	1119.8	1116.8	1101.7	1101.7	1109.2
50°	1066.5	1058.2	1044.7	1040.2	1050.7
52.5°	1012.4	998.2	983.9	982.4	991.4
55°	953.1	937.4	924.6	919.4	931.4
57.5°	888.6	873.6	857.1	857.1	864.6
60°	824.1	806.0	788.8	789.5	806.0
62.5°	758.8	740.7	716.7	721.2	734.7
65°	683.0	668.7	647.7	655.9	664.2
67.5°	613.2	597.4	575.6	583.1	583.1
70°	538.9	518.6	505.8	497.6	493.1
72.5°	460.8	442.0	433.0	403.0	390.3
75°	379.0	366.2	355.7	305.5	287.4
77.5°	301.0	294.2	265.7	222.1	211.6
80°	229.7	224.4	182.4	180.9	181.6
82.5°	156.9	150.9	139.6	130.6	126.1
85°	92.3	84.8	84.1	77.3	76.6
87.5°	30.8	33.8	35.3	34.5	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)