

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: P393652

Luminaire Tested: **24EN-LD2-67-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393652  
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 (3500K)  
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: 5272.2 lumens  
Efficiency: N/A  
Efficacy: 109.4 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

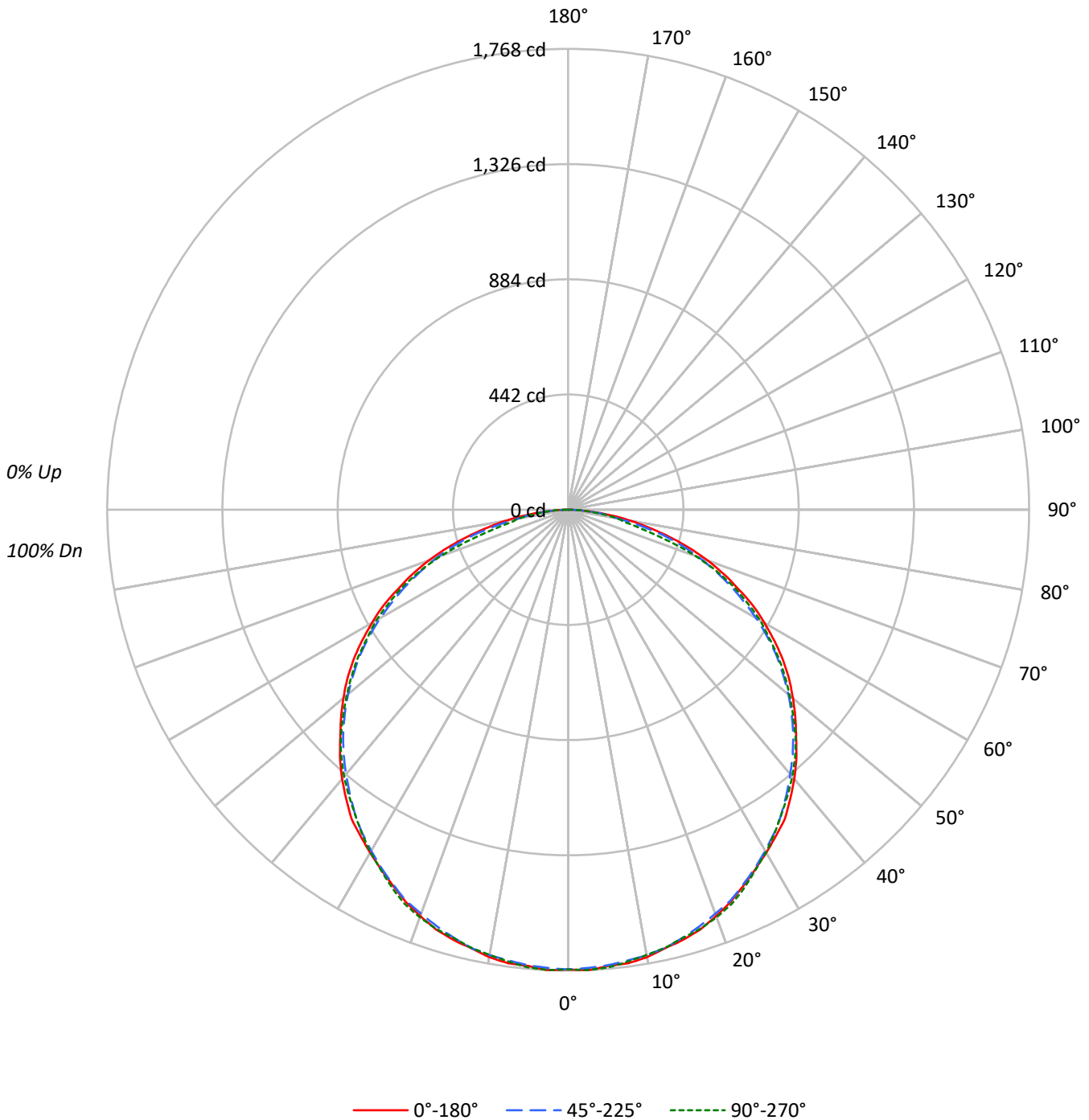
Input Watts (W): 48.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2373	2373	2373
5°	2373	2369	2381
10°	2382	2371	2370
15°	2379	2367	2368
20°	2376	2362	2382
25°	2362	2356	2375
30°	2360	2348	2357
35°	2379	2341	2341
40°	2369	2327	2348
45°	2352	2322	2346
50°	2356	2308	2321
55°	2359	2289	2305
60°	2340	2240	2289
65°	2294	2176	2231
70°	2237	2100	2047
75°	2079	1952	1577
80°	1877	1491	1485
85°	1504	1369	1247



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.0	3.2
10°-20°	480.4	9.1
20°-30°	733.6	13.9
30°-40°	893.8	17.0
40°-50°	946.3	17.9
50°-60°	876.7	16.6
60°-70°	688.4	13.1
70°-80°	383.7	7.3
80°-90°	102.3	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°	1380.9	26.2
0°-40°	2274.8	43.1
0°-60°	4097.8	77.7
0°-90°	5272.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5272.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1764	1764	1764	1764	1764	
5°	1757	1760	1754	1752	1763	168
15°	1708	1702	1700	1696	1700	482
25°	1591	1593	1587	1589	1600	734
35°	1448	1431	1426	1419	1426	903
45°	1236	1234	1220	1222	1233	956
55°	1006	989	976	970	983	897
65°	721	706	684	692	701	715
75°	400	386	375	322	303	424
85°	97	90	89	82	81	113
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1763.7	1763.7	1763.7	1763.7	1763.7
2.5°	1768.4	1760.5	1759.7	1761.3	1767.6
5°	1757.3	1760.5	1754.2	1751.8	1762.9
7.5°	1755.0	1753.4	1744.7	1739.1	1748.6
10°	1743.1	1740.7	1735.2	1726.5	1734.4
12.5°	1722.5	1724.1	1721.7	1712.2	1720.9
15°	1708.2	1701.9	1699.5	1696.4	1700.3
17.5°	1687.7	1675.0	1675.8	1680.5	1685.3
20°	1659.1	1648.1	1649.6	1658.3	1663.9
22.5°	1628.3	1623.5	1624.3	1627.5	1637.8
25°	1591.0	1592.6	1587.1	1589.4	1599.7
27.5°	1554.6	1560.1	1550.6	1548.3	1557.0
30°	1519.0	1521.3	1511.0	1505.5	1517.4
32.5°	1483.3	1477.8	1470.7	1462.7	1472.2
35°	1448.5	1431.1	1425.5	1419.2	1425.5
37.5°	1398.6	1384.3	1375.6	1376.4	1382.0
40°	1348.7	1332.9	1324.9	1331.3	1336.8
42.5°	1295.6	1281.4	1274.3	1279.0	1288.5
45°	1236.2	1233.9	1220.4	1222.0	1233.1
47.5°	1181.6	1178.4	1162.6	1162.6	1170.5
50°	1125.4	1116.7	1102.4	1097.6	1108.7
52.5°	1068.3	1053.3	1038.3	1036.7	1046.2
55°	1005.8	989.1	975.7	970.1	982.8
57.5°	937.7	921.8	904.4	904.4	912.3
60°	869.6	850.6	832.3	833.1	850.6
62.5°	800.7	781.7	756.3	761.1	775.3
65°	720.7	705.6	683.5	692.2	700.9
67.5°	647.0	630.4	607.4	615.3	615.3
70°	568.6	547.2	533.8	525.1	520.3
72.5°	486.3	466.5	457.0	425.3	411.8
75°	399.9	386.5	375.4	322.3	303.3
77.5°	317.6	310.4	280.4	234.4	223.3
80°	242.3	236.8	192.4	190.9	191.7
82.5°	165.5	159.2	147.3	137.8	133.0
85°	97.4	89.5	88.7	81.6	80.8
87.5°	32.5	35.6	37.2	36.4	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)