

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: P558481

Luminaire Tested: **24CBRK-47HE-UNV-L835-CD1-WAA-U**

Issue Date: 7/20/2021



Test Information

Test Method: LM-79-08
Report Number: P558481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-259-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/20/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CBRK-47HE-UNV-L835-CD1-WAA-U
Description: 2X4 4700 LUMEN, HIGH EFFICACY, LED TROFFER RETROFIT KIT WITH 3500K AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

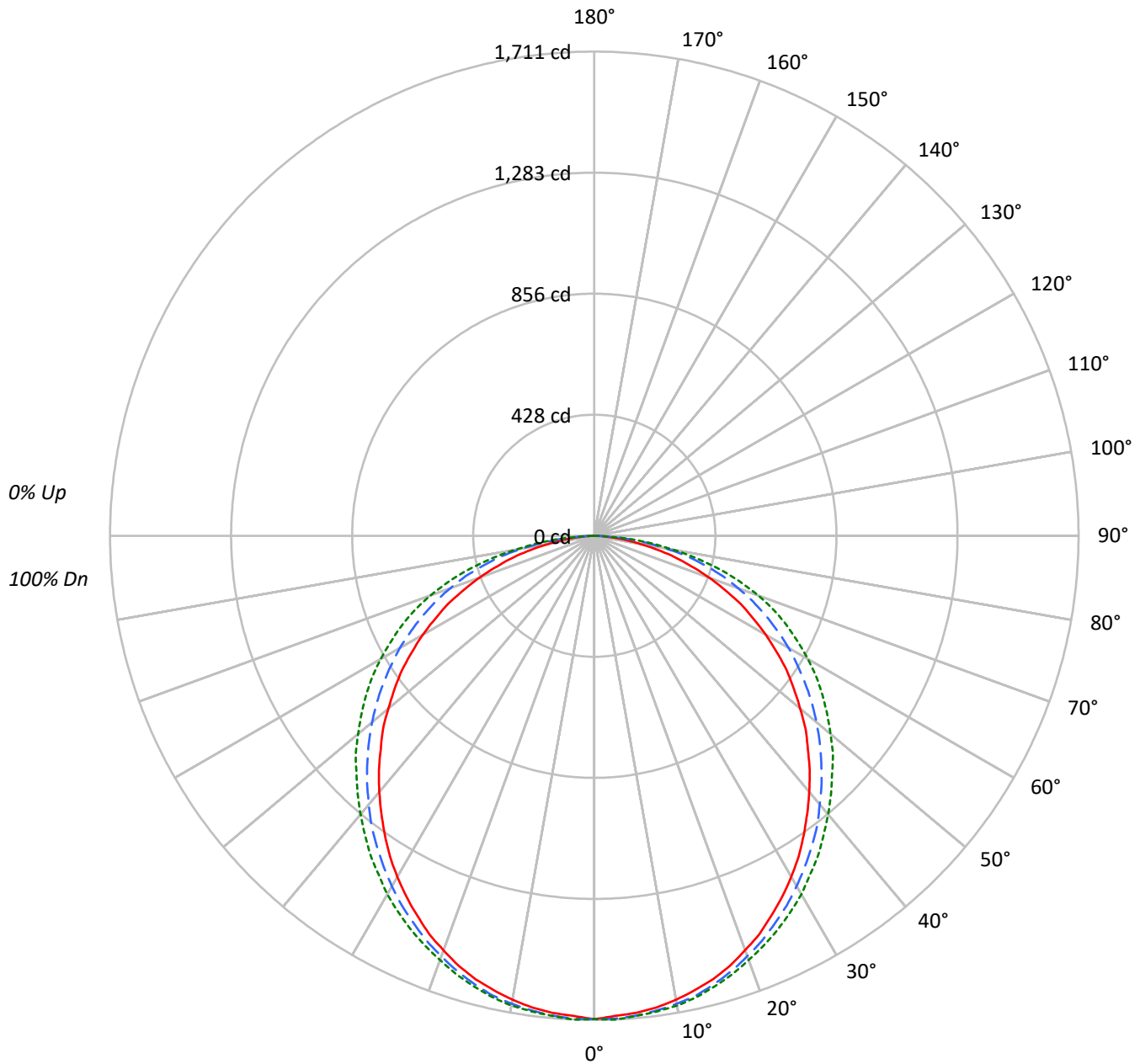
Lumens per Lamp: N/A
Luminaire Lumens: 5024.0 lumens
Efficiency: N/A
Efficacy: 156.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 32.1
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83		
2	98	90	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70	68		
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57		
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36		
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	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	41	33	28	40	33	28	39	32	28	38	32	28	26		
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2298	2298	2298
5°	2286	2299	2301
10°	2275	2295	2303
15°	2260	2284	2295
20°	2232	2264	2284
25°	2198	2243	2279
30°	2162	2221	2273
35°	2119	2200	2265
40°	2076	2176	2257
45°	2031	2158	2261
50°	1988	2144	2281
55°	1947	2134	2309
60°	1883	2136	2345
65°	1818	2127	2390
70°	1696	2127	2421
75°	1546	2109	2389
80°	1269	1972	2181
85°	835	1646	1817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	3.2
10°-20°	461.8	9.2
20°-30°	696.0	13.9
30°-40°	836.7	16.7
40°-50°	874.0	17.4
50°-60°	812.1	16.2
60°-70°	656.1	13.1
70°-80°	411.7	8.2
80°-90°	114.1	2.3
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°	1319.3	26.3
0°-40°	2156.0	42.9
0°-60°	3842.1	76.5
0°-90°	5024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5024.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1708	1708	1708	1708	1708	
5°	1692	1695	1702	1705	1703	161
15°	1622	1629	1640	1646	1648	457
25°	1481	1490	1511	1530	1535	682
35°	1290	1306	1339	1366	1379	807
45°	1067	1090	1134	1175	1188	825
55°	830	852	910	964	984	740
65°	571	600	668	728	751	561
75°	297	339	406	448	460	312
85°	54	86	107	118	118	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1708.1	1708.1	1708.1	1708.1	1708.1
2.5°	1698.6	1701.8	1708.1	1711.3	1711.3
5°	1692.2	1695.4	1701.8	1705.0	1703.4
7.5°	1681.1	1685.9	1692.2	1695.4	1695.4
10°	1665.2	1670.0	1679.5	1685.9	1685.9
12.5°	1644.5	1650.9	1663.6	1668.4	1670.0
15°	1622.3	1628.6	1639.8	1646.1	1647.7
17.5°	1593.6	1600.0	1612.7	1620.7	1623.9
20°	1558.6	1566.6	1580.9	1593.6	1595.2
22.5°	1523.7	1531.6	1549.1	1563.4	1566.6
25°	1480.7	1490.3	1510.9	1530.0	1534.8
27.5°	1437.8	1448.9	1472.8	1493.4	1499.8
30°	1391.6	1404.4	1429.8	1453.7	1463.2
32.5°	1343.9	1356.7	1385.3	1412.3	1418.7
35°	1289.9	1305.8	1339.2	1366.2	1378.9
37.5°	1235.8	1254.9	1293.0	1324.8	1331.2
40°	1181.7	1200.8	1239.0	1275.5	1285.1
42.5°	1126.0	1146.7	1188.1	1226.2	1237.4
45°	1067.2	1089.5	1134.0	1175.3	1188.1
47.5°	1013.1	1032.2	1079.9	1124.4	1143.5
50°	949.5	973.4	1024.3	1072.0	1089.5
52.5°	889.1	912.9	968.6	1019.5	1037.0
55°	830.2	852.5	909.7	963.8	984.5
57.5°	763.4	790.5	850.9	909.7	930.4
60°	699.8	726.8	793.6	852.5	871.6
62.5°	633.0	664.8	730.0	788.9	809.5
65°	571.0	599.6	668.0	728.4	750.7
67.5°	497.8	532.8	606.0	664.8	687.1
70°	431.0	466.0	540.8	598.0	615.5
72.5°	361.0	402.4	477.1	524.8	539.2
75°	297.4	338.8	405.6	448.5	459.6
77.5°	229.0	272.0	337.2	362.6	372.2
80°	163.8	211.5	254.5	275.1	281.5
82.5°	106.6	149.5	178.1	194.0	200.4
85°	54.1	85.9	106.6	117.7	117.7
87.5°	17.5	31.8	38.2	33.4	25.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)