

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: P558491

Luminaire Tested: **24CBRK-A-47HE-UNV-L840-CD1-U**

Issue Date: 7/20/2021



Test Information

Test Method: LM-79-08
Report Number: P558491
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-A-47HE-UNV-L840-CD1-U
Description: 2X4 4700 LUMEN, HIGH EFFICACY, LED TROFFER RETROFIT KIT WITH 4000K AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

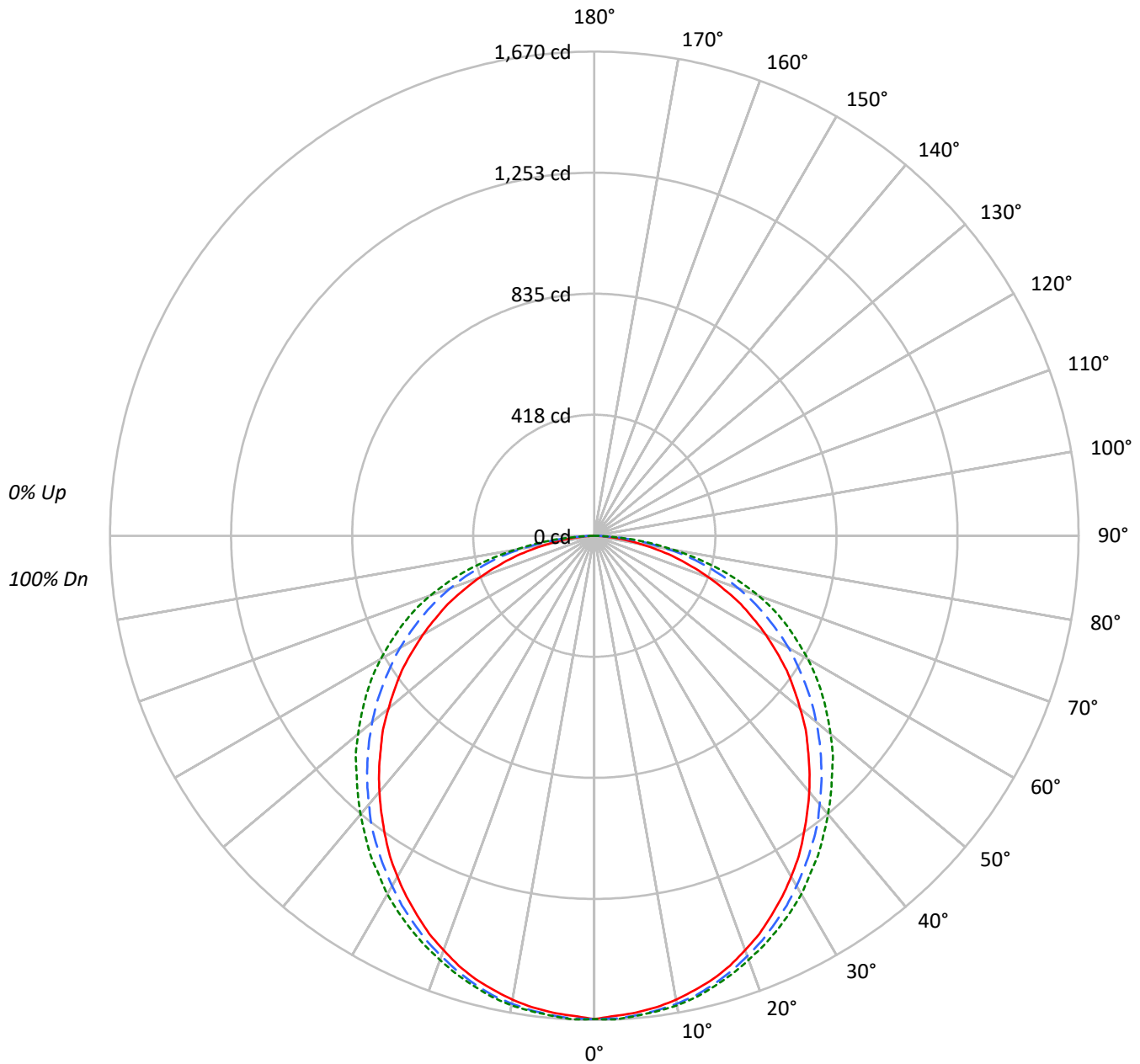
Lumens per Lamp: N/A
Luminaire Lumens: 4902.0 lumens
Efficiency: N/A
Efficacy: 159.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.7
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°	2243	2243	2243
5°	2230	2243	2245
10°	2220	2239	2247
15°	2205	2229	2239
20°	2178	2209	2229
25°	2145	2189	2223
30°	2110	2167	2218
35°	2067	2146	2210
40°	2025	2123	2202
45°	1981	2105	2206
50°	1939	2092	2225
55°	1900	2082	2253
60°	1837	2084	2288
65°	1774	2075	2332
70°	1654	2076	2363
75°	1509	2057	2332
80°	1238	1924	2128
85°	815	1606	1772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	3.2
10°-20°	450.6	9.2
20°-30°	679.1	13.9
30°-40°	816.4	16.7
40°-50°	852.7	17.4
50°-60°	792.4	16.2
60°-70°	640.1	13.1
70°-80°	401.7	8.2
80°-90°	111.3	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°	1287.3	26.3
0°-40°	2103.7	42.9
0°-60°	3748.8	76.5
0°-90°	4902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1667	1667	1667	1667	1667	
5°	1651	1654	1660	1664	1662	157
15°	1583	1589	1600	1606	1608	446
25°	1445	1454	1474	1493	1498	666
35°	1258	1274	1307	1333	1345	788
45°	1041	1063	1106	1147	1159	805
55°	810	832	888	940	961	722
65°	557	585	652	711	732	547
75°	290	330	396	438	448	305
85°	53	84	104	115	115	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1666.7	1666.7	1666.7	1666.7	1666.7
2.5°	1657.4	1660.5	1666.7	1669.8	1669.8
5°	1651.1	1654.3	1660.5	1663.6	1662.0
7.5°	1640.3	1644.9	1651.1	1654.3	1654.3
10°	1624.8	1629.4	1638.7	1644.9	1644.9
12.5°	1604.6	1610.8	1623.2	1627.9	1629.4
15°	1582.9	1589.1	1599.9	1606.1	1607.7
17.5°	1554.9	1561.1	1573.6	1581.3	1584.4
20°	1520.8	1528.6	1542.5	1554.9	1556.5
22.5°	1486.7	1494.4	1511.5	1525.4	1528.6
25°	1444.8	1454.1	1474.2	1492.9	1497.5
27.5°	1402.9	1413.7	1437.0	1457.2	1463.4
30°	1357.9	1370.3	1395.1	1418.4	1427.7
32.5°	1311.3	1323.7	1351.6	1378.0	1384.2
35°	1258.5	1274.1	1306.6	1333.0	1345.4
37.5°	1205.8	1224.4	1261.6	1292.7	1298.9
40°	1153.0	1171.6	1208.9	1244.6	1253.9
42.5°	1098.7	1118.9	1159.2	1196.5	1207.3
45°	1041.3	1063.0	1106.5	1146.8	1159.2
47.5°	988.5	1007.1	1053.7	1097.1	1115.8
50°	926.4	949.7	999.4	1045.9	1063.0
52.5°	867.5	890.8	945.1	994.7	1011.8
55°	810.1	831.8	887.6	940.4	960.6
57.5°	744.9	771.3	830.2	887.6	907.8
60°	682.8	709.2	774.4	831.8	850.4
62.5°	617.6	648.7	712.3	769.7	789.9
65°	557.1	585.0	651.8	710.7	732.5
67.5°	485.7	519.9	591.2	648.7	670.4
70°	420.5	454.7	527.6	583.5	600.6
72.5°	352.3	392.6	465.5	512.1	526.1
75°	290.2	330.5	395.7	437.6	448.5
77.5°	223.5	265.4	329.0	353.8	363.1
80°	159.8	206.4	248.3	268.5	274.7
82.5°	104.0	145.9	173.8	189.3	195.5
85°	52.8	83.8	104.0	114.8	114.8
87.5°	17.1	31.0	37.2	32.6	24.8
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)