

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: P558480

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

Issue Date: 7/20/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P558480  
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-U  
Description: 2X4 4700 LUMEN, HIGH EFFICACY, LED TROFFER RETROFIT KIT WITH 3500K AND 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

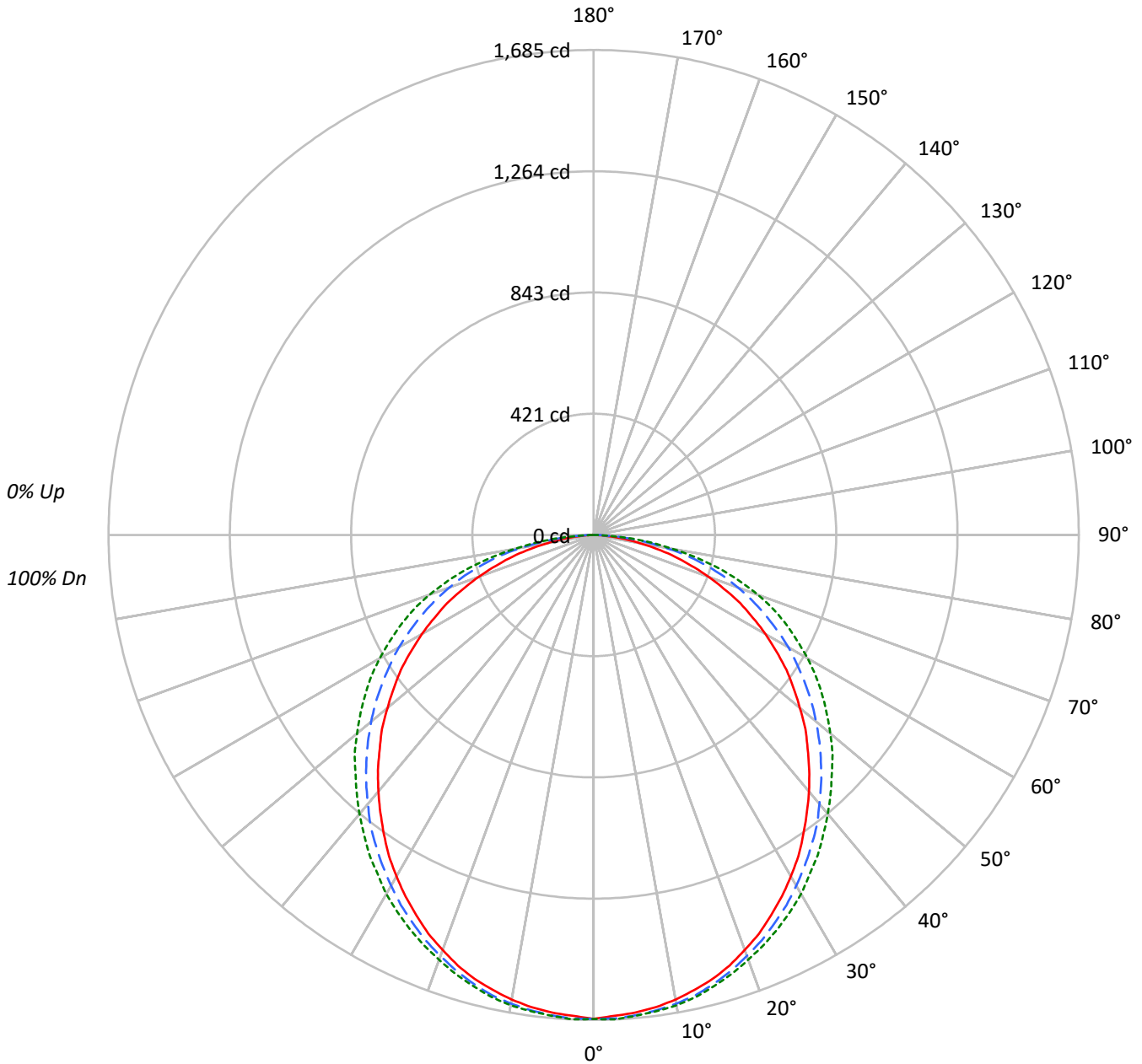
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4946.0 lumens  
Efficiency: N/A  
Efficacy: 159.0 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): 31.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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	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°	2263	2263	2263
5°	2250	2263	2265
10°	2240	2259	2268
15°	2225	2249	2260
20°	2197	2229	2249
25°	2164	2208	2243
30°	2128	2187	2238
35°	2086	2166	2230
40°	2043	2142	2222
45°	1999	2124	2226
50°	1957	2111	2245
55°	1917	2101	2274
60°	1854	2102	2309
65°	1790	2094	2353
70°	1669	2094	2384
75°	1522	2076	2352
80°	1250	1941	2147
85°	821	1619	1789



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.1	3.2
10°-20°	454.6	9.2
20°-30°	685.2	13.9
30°-40°	823.7	16.7
40°-50°	860.4	17.4
50°-60°	799.5	16.2
60°-70°	645.9	13.1
70°-80°	405.3	8.2
80°-90°	112.3	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°	1298.9	26.3
0°-40°	2122.6	42.9
0°-60°	3782.5	76.5
0°-90°	4946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4946.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1666	1669	1675	1678	1677	158
15°	1597	1603	1614	1621	1622	450
25°	1458	1467	1488	1506	1511	672
35°	1270	1286	1318	1345	1358	795
45°	1051	1072	1116	1157	1170	812
55°	817	839	896	949	969	728
65°	562	590	658	717	739	552
75°	293	334	399	442	452	308
85°	53	85	105	116	116	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1681.6	1681.6	1681.6	1681.6	1681.6
2.5°	1672.2	1675.4	1681.6	1684.8	1684.8
5°	1666.0	1669.1	1675.4	1678.5	1676.9
7.5°	1655.0	1659.7	1666.0	1669.1	1669.1
10°	1639.3	1644.0	1653.4	1659.7	1659.7
12.5°	1619.0	1625.3	1637.8	1642.5	1644.0
15°	1597.1	1603.3	1614.3	1620.6	1622.1
17.5°	1568.9	1575.2	1587.7	1595.5	1598.6
20°	1534.4	1542.3	1556.4	1568.9	1570.5
22.5°	1500.0	1507.8	1525.0	1539.1	1542.3
25°	1457.7	1467.1	1487.5	1506.3	1511.0
27.5°	1415.4	1426.4	1449.9	1470.2	1476.5
30°	1370.0	1382.6	1407.6	1431.1	1440.5
32.5°	1323.1	1335.6	1363.8	1390.4	1396.7
35°	1269.8	1285.5	1318.4	1345.0	1357.5
37.5°	1216.6	1235.4	1273.0	1304.3	1310.5
40°	1163.4	1182.1	1219.7	1255.7	1265.1
42.5°	1108.6	1128.9	1169.6	1207.2	1218.2
45°	1050.6	1072.5	1116.4	1157.1	1169.6
47.5°	997.4	1016.2	1063.2	1107.0	1125.8
50°	934.8	958.2	1008.3	1055.3	1072.5
52.5°	875.3	898.7	953.5	1003.7	1020.9
55°	817.3	839.2	895.6	948.8	969.2
57.5°	751.6	778.2	837.7	895.6	916.0
60°	688.9	715.6	781.3	839.2	858.0
62.5°	623.2	654.5	718.7	776.6	797.0
65°	562.1	590.3	657.6	717.1	739.0
67.5°	490.1	524.5	596.6	654.5	676.4
70°	424.3	458.8	532.4	588.7	605.9
72.5°	355.4	396.1	469.7	516.7	530.8
75°	292.8	333.5	399.3	441.5	452.5
77.5°	225.5	267.7	331.9	357.0	366.4
80°	161.3	208.2	250.5	270.9	277.1
82.5°	104.9	147.2	175.4	191.0	197.3
85°	53.2	84.6	104.9	115.9	115.9
87.5°	17.2	31.3	37.6	32.9	25.1
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)