

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: P558485

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

Issue Date: 7/20/2021



Test Information

Test Method: LM-79-08
Report Number: P558485
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-L840-CD1-WAB-U
Description: 2X4 4700 LUMEN, HIGH EFFICACY, LED TROFFER RETROFIT KIT WITH 4000K AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

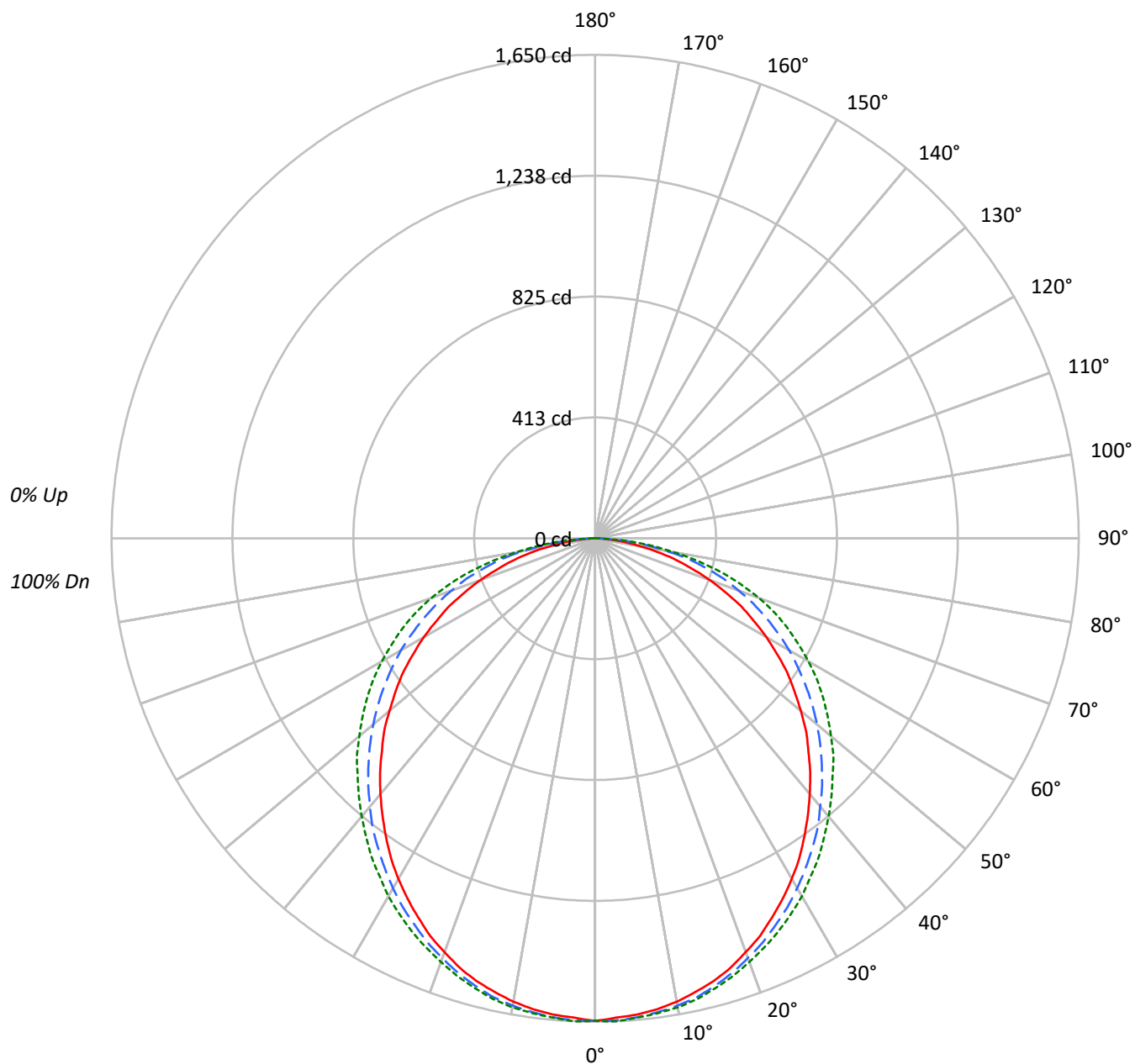
Lumens per Lamp: N/A
Luminaire Lumens: 4845.0 lumens
Efficiency: N/A
Efficacy: 156.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31
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°	2216	2216	2216
5°	2204	2217	2219
10°	2194	2213	2221
15°	2179	2203	2213
20°	2152	2183	2203
25°	2120	2163	2197
30°	2085	2142	2192
35°	2043	2121	2184
40°	2002	2099	2177
45°	1958	2081	2180
50°	1917	2068	2199
55°	1878	2058	2227
60°	1816	2060	2262
65°	1753	2051	2305
70°	1635	2052	2335
75°	1491	2033	2305
80°	1224	1901	2104
85°	804	1587	1752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	3.2
10°-20°	445.4	9.2
20°-30°	671.2	13.9
30°-40°	806.9	16.7
40°-50°	842.8	17.4
50°-60°	783.2	16.2
60°-70°	632.7	13.1
70°-80°	397.1	8.2
80°-90°	110.0	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°	1272.3	26.3
0°-40°	2079.2	42.9
0°-60°	3705.2	76.5
0°-90°	4845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1647	1647	1647	1647	1647	
5°	1632	1635	1641	1644	1643	155
15°	1564	1571	1581	1588	1589	441
25°	1428	1437	1457	1476	1480	658
35°	1244	1259	1291	1318	1330	778
45°	1029	1051	1094	1134	1146	795
55°	801	822	877	930	949	713
65°	551	578	644	702	724	541
75°	287	327	391	432	443	301
85°	52	83	103	114	114	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1647.3	1647.3	1647.3	1647.3	1647.3
2.5°	1638.1	1641.1	1647.3	1650.4	1650.4
5°	1631.9	1635.0	1641.1	1644.2	1642.7
7.5°	1621.2	1625.8	1631.9	1635.0	1635.0
10°	1605.9	1610.5	1619.7	1625.8	1625.8
12.5°	1585.9	1592.1	1604.3	1608.9	1610.5
15°	1564.5	1570.6	1581.3	1587.5	1589.0
17.5°	1536.9	1543.0	1555.3	1562.9	1566.0
20°	1503.1	1510.8	1524.6	1536.9	1538.4
22.5°	1469.4	1477.0	1493.9	1507.7	1510.8
25°	1428.0	1437.2	1457.1	1475.5	1480.1
27.5°	1386.5	1397.3	1420.3	1440.2	1446.4
30°	1342.1	1354.3	1378.9	1401.9	1411.1
32.5°	1296.0	1308.3	1335.9	1362.0	1368.1
35°	1243.9	1259.2	1291.4	1317.5	1329.8
37.5°	1191.8	1210.2	1247.0	1277.6	1283.8
40°	1139.6	1158.0	1194.8	1230.1	1239.3
42.5°	1085.9	1105.9	1145.7	1182.5	1193.3
45°	1029.2	1050.6	1093.6	1133.5	1145.7
47.5°	977.0	995.4	1041.4	1084.4	1102.8
50°	915.7	938.7	987.8	1033.8	1050.6
52.5°	857.4	880.4	934.1	983.2	1000.0
55°	800.6	822.1	877.3	929.5	949.4
57.5°	736.2	762.3	820.6	877.3	897.3
60°	674.9	700.9	765.4	822.1	840.5
62.5°	610.4	641.1	704.0	760.8	780.7
65°	550.6	578.2	644.2	702.5	723.9
67.5°	480.1	513.8	584.4	641.1	662.6
70°	415.7	449.4	521.5	576.7	593.6
72.5°	348.2	388.0	460.1	506.1	520.0
75°	286.8	326.7	391.1	432.5	443.3
77.5°	220.9	262.3	325.2	349.7	358.9
80°	158.0	204.0	245.4	265.3	271.5
82.5°	102.8	144.2	171.8	187.1	193.3
85°	52.1	82.8	102.8	113.5	113.5
87.5°	16.9	30.7	36.8	32.2	24.5
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)