

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: P558471

Luminaire Tested: **24CBRK-36HE-UNV-L840-CD1-U**

Issue Date: 7/20/2021



Test Information

Test Method: LM-79-08
Report Number: P558471
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-36HE-UNV-L840-CD1-U
Description: 2X4 3600 LUMEN, HIGH EFFICACY, LED TROFFER RETROFIT KIT WITH 4000K AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

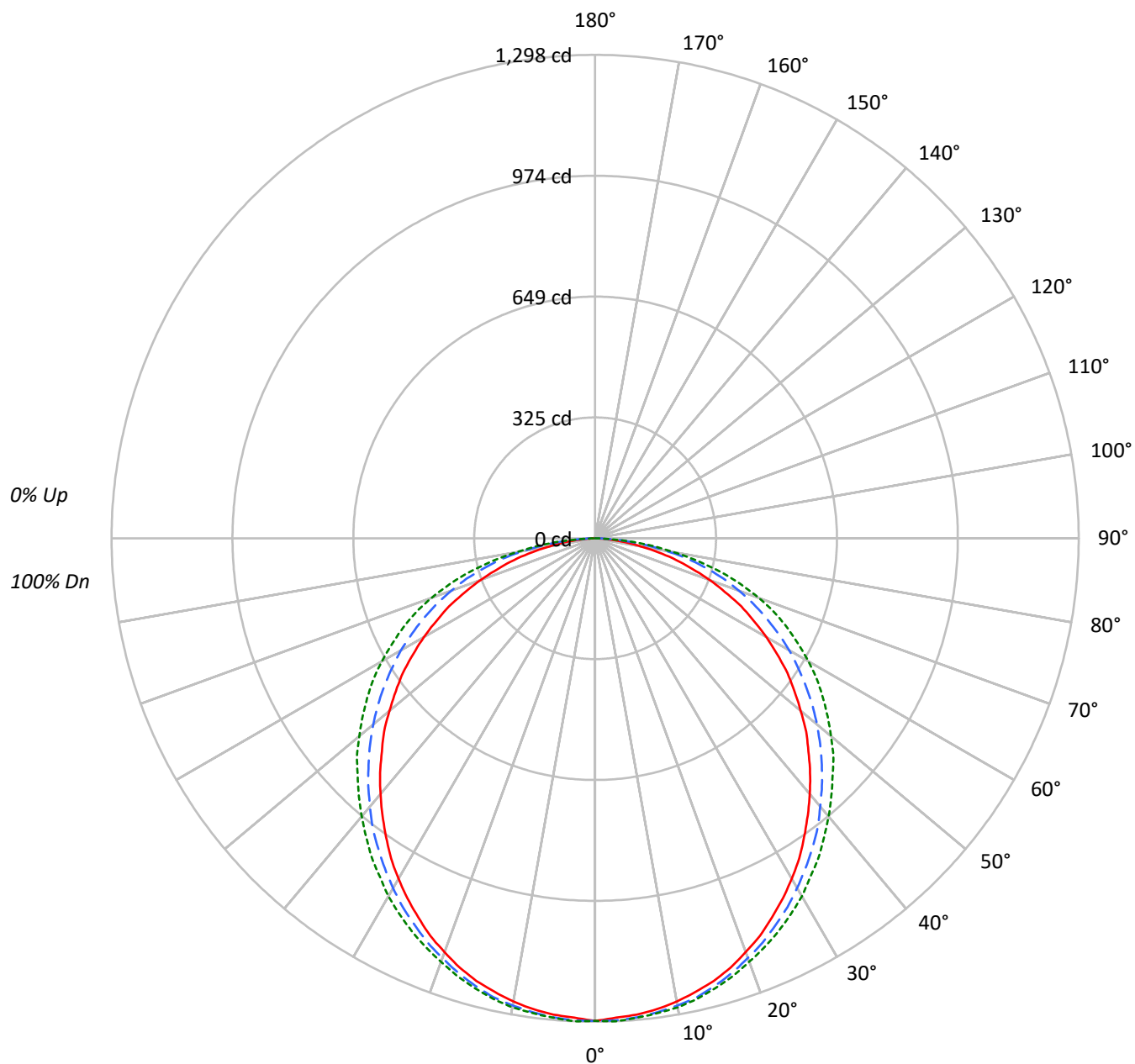
Lumens per Lamp: N/A
Luminaire Lumens: 3811.0 lumens
Efficiency: N/A
Efficacy: 168.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 22.6
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°	1743	1743	1743
5°	1734	1744	1745
10°	1726	1741	1747
15°	1714	1733	1741
20°	1693	1717	1733
25°	1667	1701	1728
30°	1640	1685	1724
35°	1607	1668	1718
40°	1574	1651	1712
45°	1540	1637	1715
50°	1508	1626	1730
55°	1477	1619	1752
60°	1428	1620	1779
65°	1379	1613	1813
70°	1286	1614	1837
75°	1173	1599	1813
80°	963	1495	1654
85°	633	1247	1379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	3.2
10°-20°	350.3	9.2
20°-30°	527.9	13.9
30°-40°	634.7	16.7
40°-50°	663.0	17.4
50°-60°	616.1	16.2
60°-70°	497.7	13.1
70°-80°	312.3	8.2
80°-90°	86.5	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°	1000.8	26.3
0°-40°	1635.5	42.9
0°-60°	2914.5	76.5
0°-90°	3811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1284	1286	1291	1293	1292	122
15°	1231	1235	1244	1249	1250	347
25°	1123	1130	1146	1161	1164	518
35°	978	990	1016	1036	1046	612
45°	810	826	860	892	901	626
55°	630	647	690	731	747	561
65°	433	455	507	553	569	425
75°	226	257	308	340	349	237
85°	41	65	81	89	89	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1295.7	1295.7	1295.7	1295.7	1295.7
2.5°	1288.5	1290.9	1295.7	1298.1	1298.1
5°	1283.7	1286.1	1290.9	1293.3	1292.1
7.5°	1275.2	1278.8	1283.7	1286.1	1286.1
10°	1263.2	1266.8	1274.0	1278.8	1278.8
12.5°	1247.5	1252.3	1261.9	1265.6	1266.8
15°	1230.6	1235.4	1243.9	1248.7	1249.9
17.5°	1208.9	1213.7	1223.3	1229.4	1231.8
20°	1182.3	1188.4	1199.2	1208.9	1210.1
22.5°	1155.8	1161.8	1175.1	1185.9	1188.4
25°	1123.2	1130.4	1146.1	1160.6	1164.2
27.5°	1090.6	1099.1	1117.2	1132.9	1137.7
30°	1055.6	1065.3	1084.6	1102.7	1109.9
32.5°	1019.5	1029.1	1050.8	1071.3	1076.2
35°	978.4	990.5	1015.8	1036.3	1046.0
37.5°	937.4	951.9	980.8	1005.0	1009.8
40°	896.4	910.9	939.8	967.6	974.8
42.5°	854.2	869.9	901.2	930.2	938.6
45°	809.5	826.4	860.2	891.6	901.2
47.5°	768.5	783.0	819.2	853.0	867.4
50°	720.3	738.3	777.0	813.1	826.4
52.5°	674.4	692.5	734.7	773.3	786.6
55°	629.8	646.7	690.1	731.1	746.8
57.5°	579.1	599.6	645.5	690.1	705.8
60°	530.8	551.3	602.0	646.7	661.1
62.5°	480.2	504.3	553.8	598.4	614.1
65°	433.1	454.8	506.7	552.6	569.4
67.5°	377.6	404.2	459.7	504.3	521.2
70°	326.9	353.5	410.2	453.6	466.9
72.5°	273.9	305.2	361.9	398.1	409.0
75°	225.6	257.0	307.6	340.2	348.7
77.5°	173.7	206.3	255.8	275.1	282.3
80°	124.3	160.5	193.0	208.7	213.5
82.5°	80.8	113.4	135.1	147.2	152.0
85°	41.0	65.1	80.8	89.3	89.3
87.5°	13.3	24.1	29.0	25.3	19.3
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)