

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: P558472

Luminaire Tested: **24CBRK-42-UNV-L835-CD1-U**

Issue Date: 7/20/2021



Test Information

Test Method: LM-79-08
Report Number: P558472
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-42-UNV-L835-CD1-U
Description: 2X4 4200 LUMEN, LED TROFFER RETROFIT KIT WITH 3500K AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

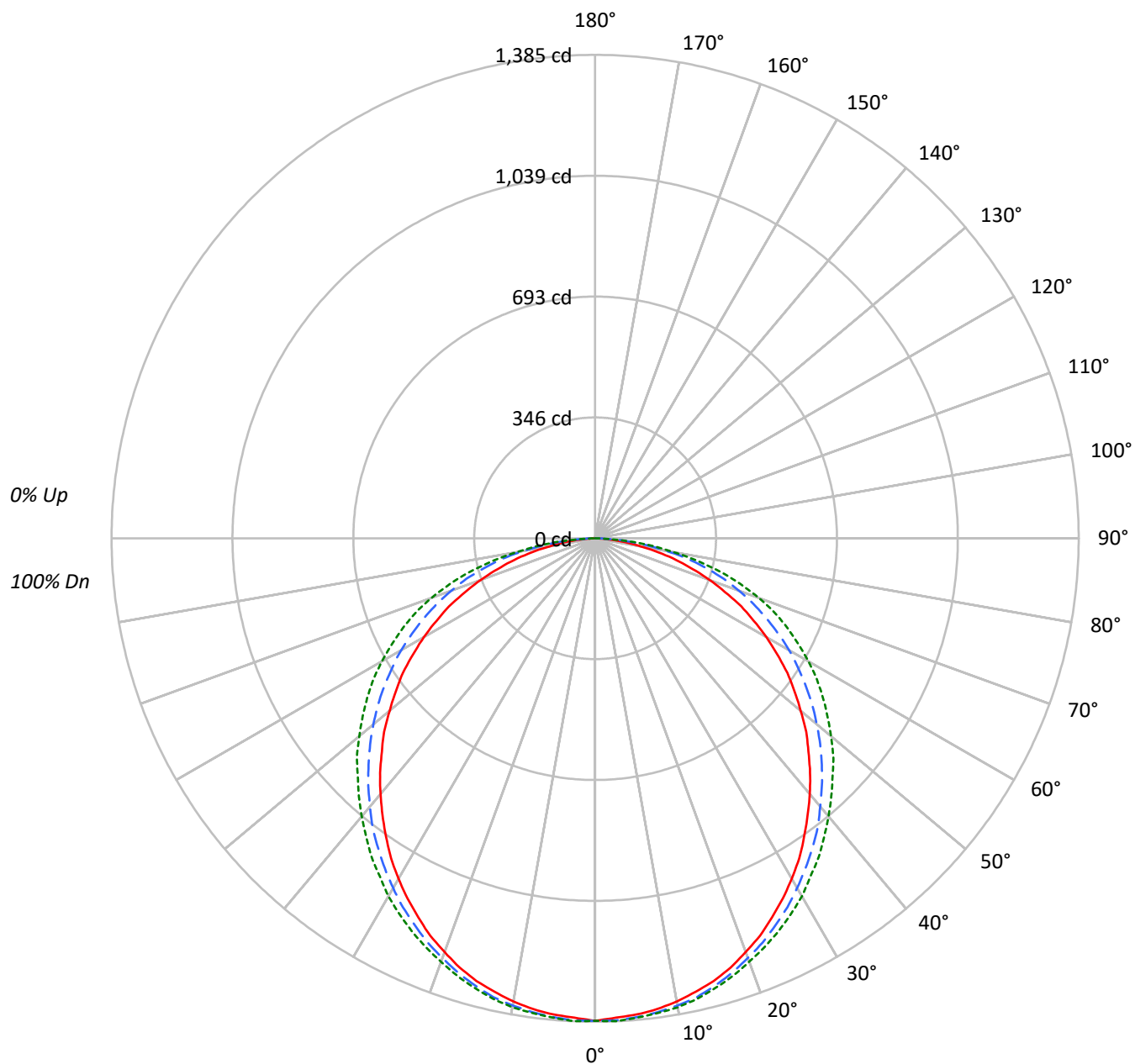
Lumens per Lamp: N/A
Luminaire Lumens: 4066.0 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.3
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°	1860	1860	1860
5°	1850	1860	1862
10°	1841	1857	1864
15°	1829	1849	1858
20°	1806	1832	1849
25°	1779	1815	1844
30°	1750	1798	1840
35°	1715	1780	1833
40°	1680	1761	1827
45°	1643	1746	1830
50°	1608	1735	1846
55°	1576	1727	1869
60°	1524	1728	1898
65°	1471	1721	1934
70°	1372	1721	1959
75°	1251	1706	1934
80°	1027	1595	1765
85°	676	1331	1471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	3.2
10°-20°	373.7	9.2
20°-30°	563.3	13.9
30°-40°	677.1	16.7
40°-50°	707.3	17.4
50°-60°	657.3	16.2
60°-70°	530.9	13.1
70°-80°	333.2	8.2
80°-90°	92.3	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°	1067.8	26.3
0°-40°	1744.9	42.9
0°-60°	3109.5	76.5
0°-90°	4066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4066.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1370	1372	1377	1380	1379	130
15°	1313	1318	1327	1332	1334	370
25°	1198	1206	1223	1238	1242	552
35°	1044	1057	1084	1106	1116	653
45°	864	882	918	951	962	667
55°	672	690	736	780	797	599
65°	462	485	541	590	608	454
75°	241	274	328	363	372	253
85°	44	70	86	95	95	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1382.4	1382.4	1382.4	1382.4	1382.4
2.5°	1374.7	1377.3	1382.4	1385.0	1385.0
5°	1369.6	1372.1	1377.3	1379.9	1378.6
7.5°	1360.5	1364.4	1369.6	1372.1	1372.1
10°	1347.7	1351.5	1359.3	1364.4	1364.4
12.5°	1330.9	1336.1	1346.4	1350.2	1351.5
15°	1312.9	1318.1	1327.1	1332.2	1333.5
17.5°	1289.8	1294.9	1305.2	1311.6	1314.2
20°	1261.4	1267.9	1279.5	1289.8	1291.0
22.5°	1233.1	1239.6	1253.7	1265.3	1267.9
25°	1198.4	1206.1	1222.8	1238.3	1242.1
27.5°	1163.6	1172.6	1191.9	1208.7	1213.8
30°	1126.3	1136.6	1157.2	1176.5	1184.2
32.5°	1087.7	1098.0	1121.1	1143.0	1148.2
35°	1043.9	1056.8	1083.8	1105.7	1116.0
37.5°	1000.1	1015.6	1046.5	1072.2	1077.4
40°	956.4	971.8	1002.7	1032.3	1040.0
42.5°	911.3	928.1	961.5	992.4	1001.4
45°	863.7	881.7	917.8	951.2	961.5
47.5°	819.9	835.4	874.0	910.0	925.5
50°	768.4	787.8	828.9	867.6	881.7
52.5°	719.5	738.8	783.9	825.1	839.2
55°	671.9	689.9	736.3	780.0	796.8
57.5°	617.8	639.7	688.6	736.3	753.0
60°	566.4	588.2	642.3	689.9	705.4
62.5°	512.3	538.0	590.8	638.4	655.2
65°	462.1	485.3	540.6	589.5	607.5
67.5°	402.9	431.2	490.4	538.0	556.1
70°	348.8	377.1	437.6	484.0	498.1
72.5°	292.2	325.7	386.2	424.8	436.4
75°	240.7	274.2	328.2	363.0	372.0
77.5°	185.4	220.1	272.9	293.5	301.2
80°	132.6	171.2	205.9	222.7	227.8
82.5°	86.2	121.0	144.2	157.0	162.2
85°	43.8	69.5	86.2	95.3	95.3
87.5°	14.2	25.7	30.9	27.0	20.6
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)