

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: P558486

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

Issue Date: 7/20/2021



Test Information

Test Method: LM-79-08
Report Number: P558486
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-42-UNV-L835-CD1-WAA-U
Description: 2X4 4200 LUMEN, LED TROFFER RETROFIT KIT WITH 3500K AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

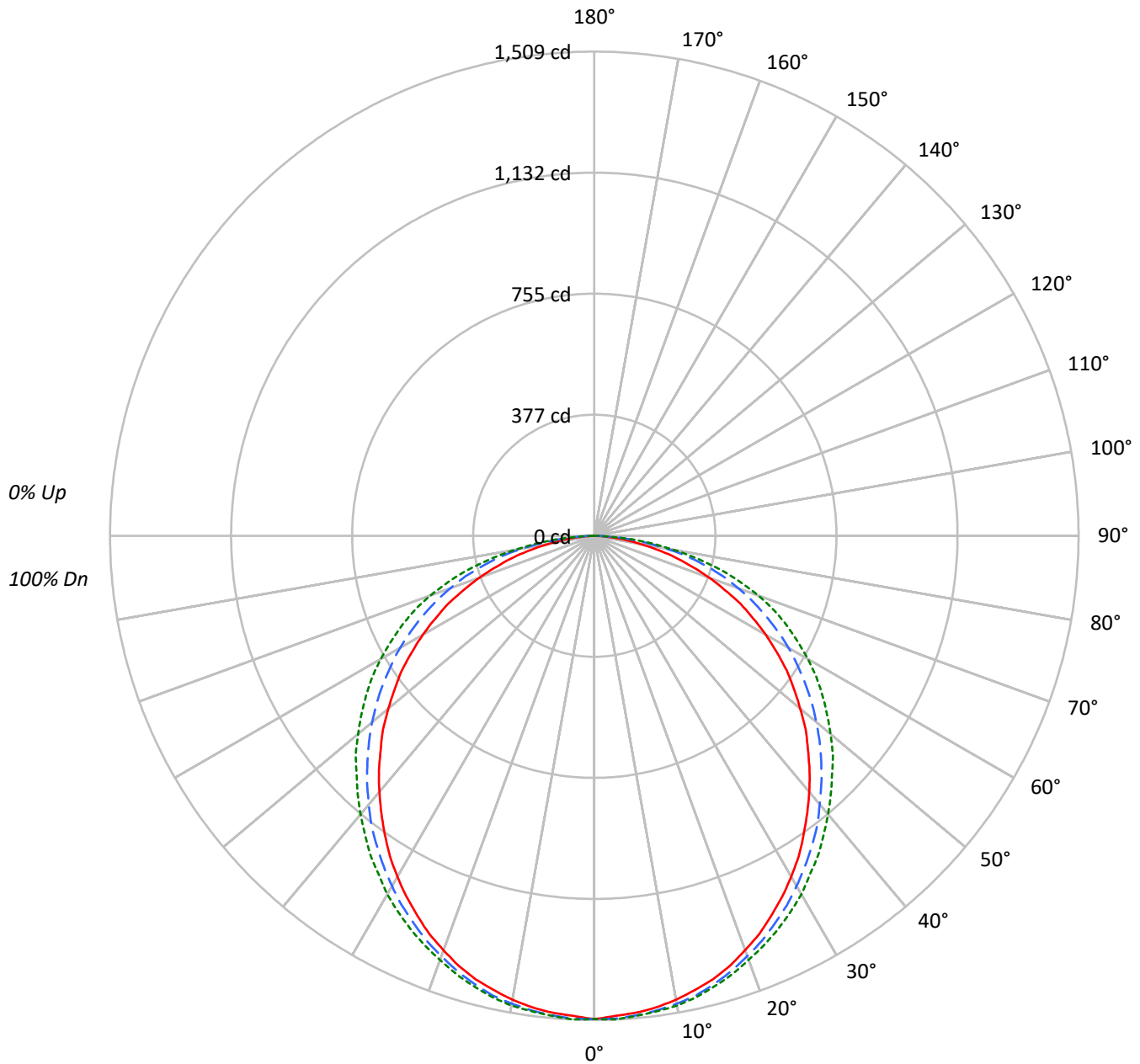
Lumens per Lamp: N/A
Luminaire Lumens: 4430.0 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.2
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°	2027	2027	2027
5°	2015	2027	2029
10°	2006	2023	2031
15°	1993	2014	2024
20°	1968	1996	2014
25°	1938	1978	2009
30°	1906	1959	2005
35°	1868	1940	1997
40°	1830	1919	1990
45°	1791	1903	1993
50°	1752	1891	2011
55°	1717	1882	2036
60°	1661	1883	2068
65°	1603	1875	2107
70°	1495	1876	2135
75°	1364	1859	2107
80°	1119	1739	1923
85°	736	1451	1602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	3.2
10°-20°	407.2	9.2
20°-30°	613.7	13.9
30°-40°	737.8	16.7
40°-50°	770.6	17.4
50°-60°	716.1	16.2
60°-70°	578.5	13.1
70°-80°	363.0	8.2
80°-90°	100.6	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°	1163.4	26.3
0°-40°	1901.1	42.9
0°-60°	3387.9	76.5
0°-90°	4430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1506	1506	1506	1506	1506	
5°	1492	1495	1501	1503	1502	142
15°	1430	1436	1446	1452	1453	403
25°	1306	1314	1332	1349	1353	602
35°	1137	1151	1181	1205	1216	712
45°	941	961	1000	1036	1048	727
55°	732	752	802	850	868	652
65°	504	529	589	642	662	495
75°	262	299	358	396	405	275
85°	48	76	94	104	104	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1506.2	1506.2	1506.2	1506.2	1506.2
2.5°	1497.8	1500.6	1506.2	1509.0	1509.0
5°	1492.2	1495.0	1500.6	1503.4	1502.0
7.5°	1482.3	1486.6	1492.2	1495.0	1495.0
10°	1468.3	1472.5	1480.9	1486.6	1486.6
12.5°	1450.1	1455.7	1466.9	1471.1	1472.5
15°	1430.5	1436.1	1445.9	1451.5	1452.9
17.5°	1405.2	1410.8	1422.0	1429.1	1431.9
20°	1374.4	1381.4	1394.0	1405.2	1406.6
22.5°	1343.5	1350.5	1365.9	1378.6	1381.4
25°	1305.6	1314.1	1332.3	1349.1	1353.3
27.5°	1267.8	1277.6	1298.6	1316.9	1322.5
30°	1227.1	1238.3	1260.8	1281.8	1290.2
32.5°	1185.0	1196.3	1221.5	1245.3	1250.9
35°	1137.4	1151.4	1180.8	1204.7	1215.9
37.5°	1089.7	1106.5	1140.2	1168.2	1173.8
40°	1042.0	1058.8	1092.5	1124.7	1133.1
42.5°	992.9	1011.1	1047.6	1081.3	1091.1
45°	941.0	960.6	999.9	1036.4	1047.6
47.5°	893.3	910.2	952.2	991.5	1008.3
50°	837.2	858.3	903.2	945.2	960.6
52.5°	783.9	805.0	854.1	898.9	914.4
55°	732.1	751.7	802.2	849.9	868.1
57.5°	673.2	697.0	750.3	802.2	820.4
60°	617.1	640.9	699.8	751.7	768.5
62.5°	558.2	586.2	643.7	695.6	713.8
65°	503.5	528.7	589.0	642.3	661.9
67.5°	439.0	469.8	534.3	586.2	605.8
70°	380.1	410.9	476.8	527.3	542.7
72.5°	318.3	354.8	420.7	462.8	475.4
75°	262.3	298.7	357.6	395.5	405.3
77.5°	201.9	239.8	297.3	319.7	328.2
80°	144.4	186.5	224.4	242.6	248.2
82.5°	94.0	131.8	157.1	171.1	176.7
85°	47.7	75.7	94.0	103.8	103.8
87.5°	15.4	28.0	33.7	29.5	22.4
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)