

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: P558478

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

Issue Date: 7/20/2021



Test Information

Test Method: LM-79-08
Report Number: P558478
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-42HE-UNV-L835-CD1-U
Description: 2X4 4200 LUMEN, HIGH EFFICACY, LED TROFFER RETROFIT KIT WITH 3500K AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

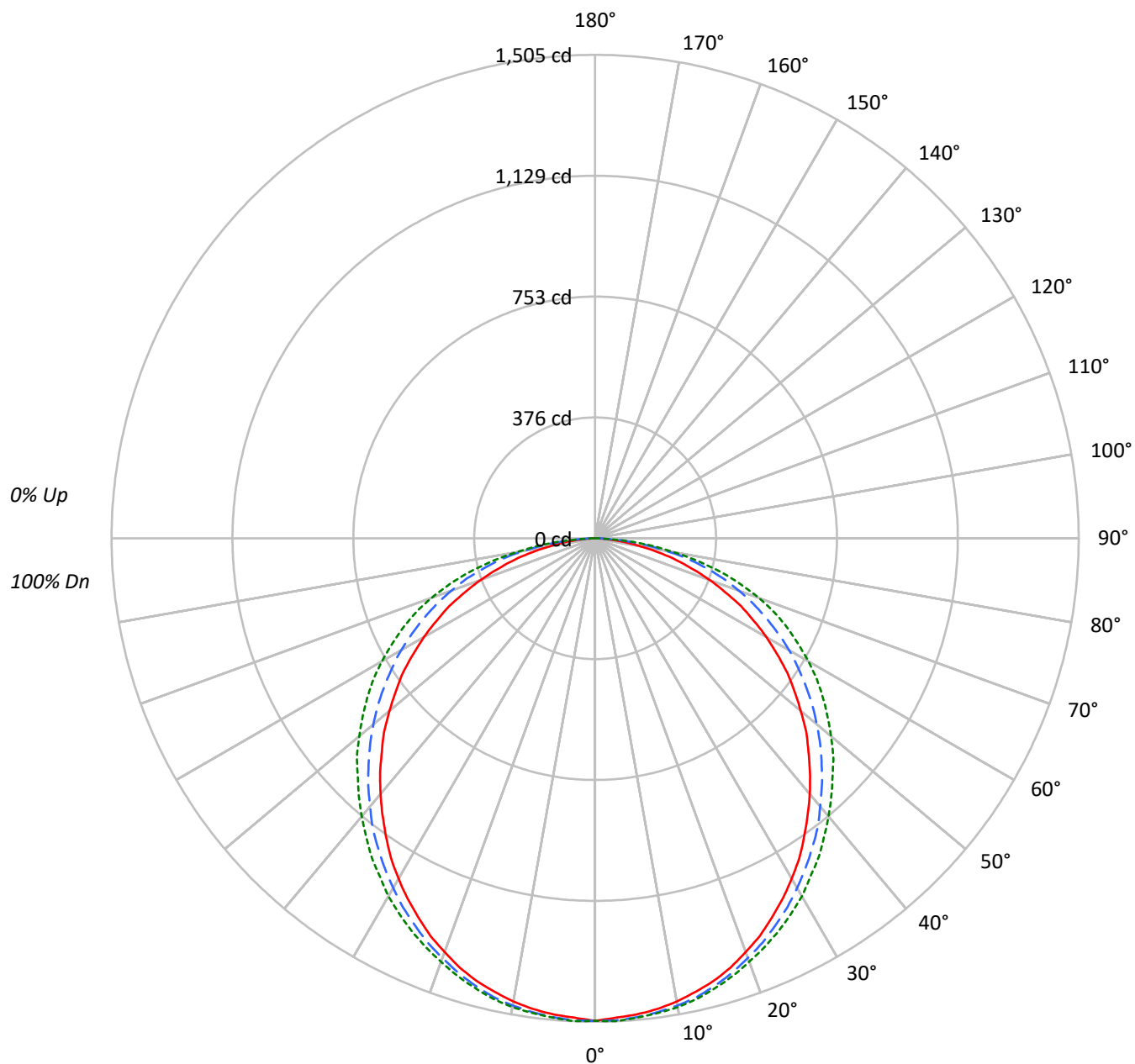
Lumens per Lamp: N/A
Luminaire Lumens: 4418.0 lumens
Efficiency: N/A
Efficacy: 159.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (A_{in}): 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°	2021	2021	2021
5°	2010	2021	2023
10°	2001	2018	2025
15°	1987	2009	2018
20°	1962	1991	2009
25°	1933	1973	2004
30°	1901	1953	1999
35°	1863	1934	1992
40°	1825	1914	1985
45°	1786	1897	1988
50°	1748	1885	2005
55°	1713	1877	2031
60°	1656	1878	2062
65°	1599	1870	2102
70°	1491	1871	2129
75°	1359	1854	2101
80°	1117	1734	1918
85°	735	1447	1598



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	3.2
10°-20°	406.1	9.2
20°-30°	612.0	13.9
30°-40°	735.8	16.7
40°-50°	768.5	17.4
50°-60°	714.2	16.2
60°-70°	576.9	13.1
70°-80°	362.1	8.2
80°-90°	100.3	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°	1160.2	26.3
0°-40°	1896.0	42.9
0°-60°	3378.7	76.5
0°-90°	4418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1502	1502	1502	1502	1502	
5°	1488	1491	1496	1499	1498	141
15°	1427	1432	1442	1448	1449	402
25°	1302	1310	1329	1346	1350	600
35°	1134	1148	1178	1201	1213	710
45°	938	958	997	1034	1045	725
55°	730	750	800	848	866	650
65°	502	527	587	641	660	493
75°	262	298	357	394	404	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°	1502.1	1502.1	1502.1	1502.1	1502.1
2.5°	1493.7	1496.5	1502.1	1504.9	1504.9
5°	1488.1	1490.9	1496.5	1499.3	1497.9
7.5°	1478.3	1482.5	1488.1	1490.9	1490.9
10°	1464.3	1468.5	1476.9	1482.5	1482.5
12.5°	1446.2	1451.8	1462.9	1467.1	1468.5
15°	1426.6	1432.2	1442.0	1447.6	1449.0
17.5°	1401.4	1407.0	1418.2	1425.2	1428.0
20°	1370.6	1377.6	1390.2	1401.4	1402.8
22.5°	1339.9	1346.9	1362.2	1374.8	1377.6
25°	1302.1	1310.5	1328.7	1345.5	1349.7
27.5°	1264.3	1274.1	1295.1	1313.3	1318.9
30°	1223.8	1235.0	1257.3	1278.3	1286.7
32.5°	1181.8	1193.0	1218.2	1242.0	1247.6
35°	1134.3	1148.3	1177.6	1201.4	1212.6
37.5°	1086.7	1103.5	1137.1	1165.0	1170.6
40°	1039.2	1055.9	1089.5	1121.7	1130.1
42.5°	990.2	1008.4	1044.8	1078.3	1088.1
45°	938.5	958.0	997.2	1033.6	1044.8
47.5°	890.9	907.7	949.7	988.8	1005.6
50°	835.0	855.9	900.7	942.7	958.0
52.5°	781.8	802.8	851.8	896.5	911.9
55°	730.1	749.7	800.0	847.6	865.7
57.5°	671.3	695.1	748.3	800.0	818.2
60°	615.4	639.2	697.9	749.7	766.4
62.5°	556.6	584.6	642.0	693.7	711.9
65°	502.1	527.3	587.4	640.6	660.1
67.5°	437.8	468.5	532.9	584.6	604.2
70°	379.0	409.8	475.5	525.9	541.3
72.5°	317.5	353.8	419.6	461.5	474.1
75°	261.5	297.9	356.6	394.4	404.2
77.5°	201.4	239.2	296.5	318.9	327.3
80°	144.1	186.0	223.8	242.0	247.6
82.5°	93.7	131.5	156.6	170.6	176.2
85°	47.6	75.5	93.7	103.5	103.5
87.5°	15.4	28.0	33.6	29.4	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)