

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: P558479

Luminaire Tested: **24CBRK-42HE-UNV-L840-CD1-U**

Issue Date: 7/20/2021



Test Information

Test Method: LM-79-08
Report Number: P558479
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-L840-CD1-U
Description: 2X4 4200 LUMEN, HIGH EFFICACY, LED TROFFER RETROFIT KIT WITH 4000K AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

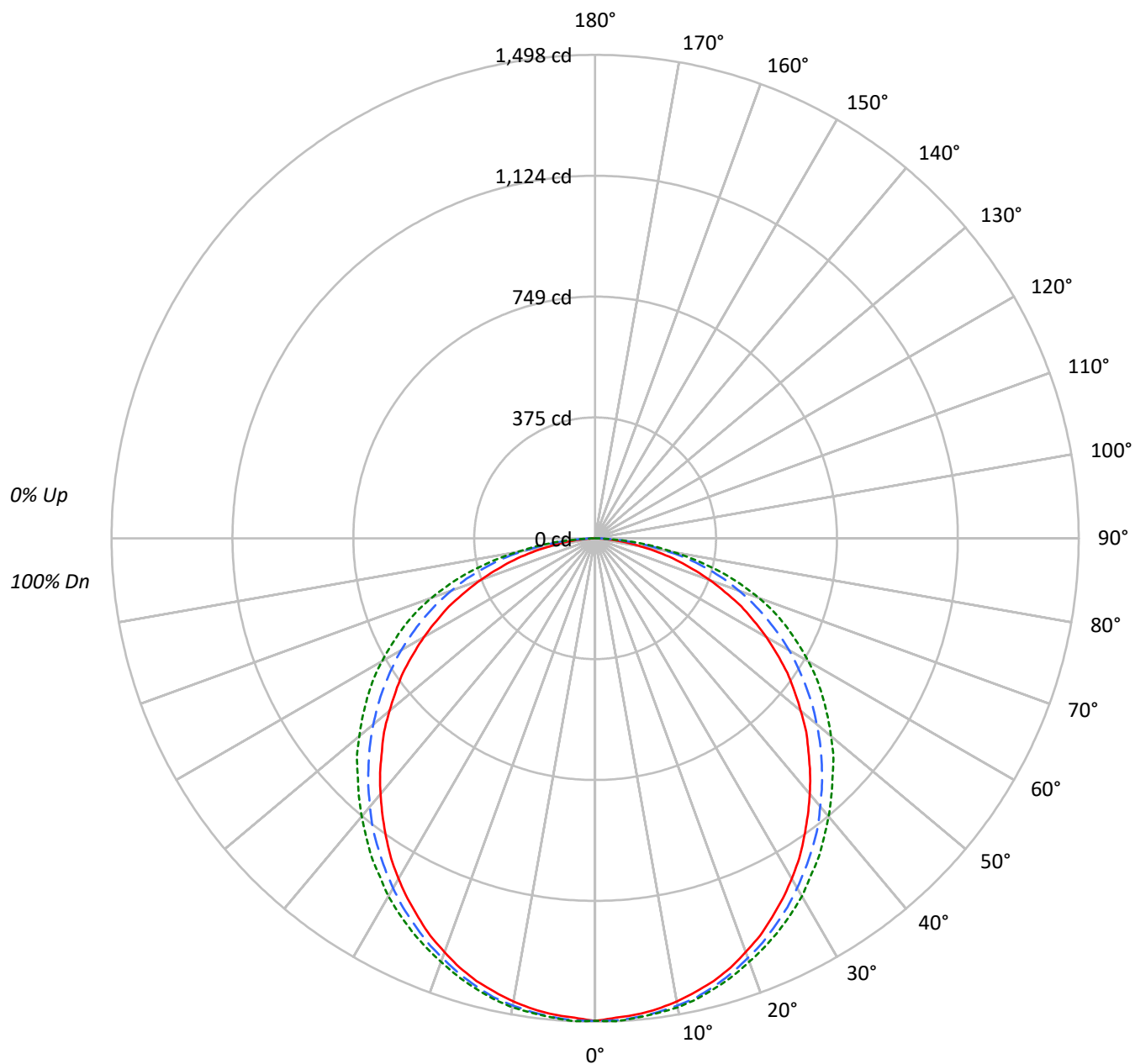
Lumens per Lamp: N/A
Luminaire Lumens: 4398.0 lumens
Efficiency: N/A
Efficacy: 160.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78
3	89	78	70	63	87	77	69	63	74	67	61		71	65	60		68
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55
6	69	55	46	40	67	55	46	40	53	45	39		51	44	39		49
7	64	50	41	35	62	49	41	35	48	40	35		46	40	34		45
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2012	2012	2012
5°	2001	2012	2014
10°	1992	2009	2016
15°	1978	1999	2009
20°	1954	1982	2000
25°	1924	1964	1995
30°	1893	1945	1990
35°	1855	1926	1983
40°	1817	1905	1976
45°	1778	1889	1979
50°	1740	1877	1996
55°	1705	1868	2022
60°	1648	1869	2053
65°	1591	1862	2092
70°	1484	1862	2120
75°	1354	1845	2092
80°	1111	1726	1909
85°	730	1440	1590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	3.2
10°-20°	404.3	9.2
20°-30°	609.3	13.9
30°-40°	732.4	16.7
40°-50°	765.1	17.4
50°-60°	711.0	16.2
60°-70°	574.3	13.1
70°-80°	360.4	8.2
80°-90°	99.9	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°	1155.0	26.3
0°-40°	1887.4	42.9
0°-60°	3363.4	76.5
0°-90°	4398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4398.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1495	1495	1495	1495	1495	
5°	1481	1484	1490	1492	1491	141
15°	1420	1426	1435	1441	1442	400
25°	1296	1305	1323	1339	1344	597
35°	1129	1143	1172	1196	1207	707
45°	934	954	993	1029	1040	722
55°	727	746	796	844	862	648
65°	500	525	585	638	657	491
75°	260	297	355	393	402	273
85°	47	75	93	103	103	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1495.3	1495.3	1495.3	1495.3	1495.3
2.5°	1487.0	1489.7	1495.3	1498.1	1498.1
5°	1481.4	1484.2	1489.7	1492.5	1491.1
7.5°	1471.6	1475.8	1481.4	1484.2	1484.2
10°	1457.7	1461.9	1470.2	1475.8	1475.8
12.5°	1439.6	1445.2	1456.3	1460.5	1461.9
15°	1420.1	1425.7	1435.4	1441.0	1442.4
17.5°	1395.1	1400.6	1411.8	1418.7	1421.5
20°	1364.4	1371.4	1383.9	1395.1	1396.5
22.5°	1333.8	1340.8	1356.1	1368.6	1371.4
25°	1296.2	1304.6	1322.7	1339.4	1343.5
27.5°	1258.6	1268.4	1289.2	1307.3	1312.9
30°	1218.2	1229.4	1251.7	1272.5	1280.9
32.5°	1176.5	1187.6	1212.7	1236.3	1241.9
35°	1129.1	1143.1	1172.3	1196.0	1207.1
37.5°	1081.8	1098.5	1131.9	1159.8	1165.3
40°	1034.5	1051.2	1084.6	1116.6	1125.0
42.5°	985.7	1003.8	1040.0	1073.4	1083.2
45°	934.2	953.7	992.7	1028.9	1040.0
47.5°	886.9	903.6	945.4	984.3	1001.0
50°	831.2	852.1	896.6	938.4	953.7
52.5°	778.3	799.2	847.9	892.5	907.8
55°	726.8	746.3	796.4	843.7	861.8
57.5°	668.3	692.0	744.9	796.4	814.5
60°	612.6	636.3	694.7	746.3	763.0
62.5°	554.1	582.0	639.1	690.6	708.7
65°	499.8	524.9	584.8	637.7	657.2
67.5°	435.8	466.4	530.5	582.0	601.5
70°	377.3	407.9	473.4	523.5	538.8
72.5°	316.0	352.2	417.7	459.5	472.0
75°	260.4	296.6	355.0	392.6	402.4
77.5°	200.5	238.1	295.2	317.4	325.8
80°	143.4	185.2	222.8	240.9	246.4
82.5°	93.3	130.9	155.9	169.9	175.4
85°	47.3	75.2	93.3	103.0	103.0
87.5°	15.3	27.8	33.4	29.2	22.3
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)