

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: P558475

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

Issue Date: 7/20/2021



Test Information

Test Method: LM-79-08
Report Number: P558475
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-L840-CD1-U
Description: 2X4 4200 LUMEN, LED TROFFER RETROFIT KIT WITH 4000K AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

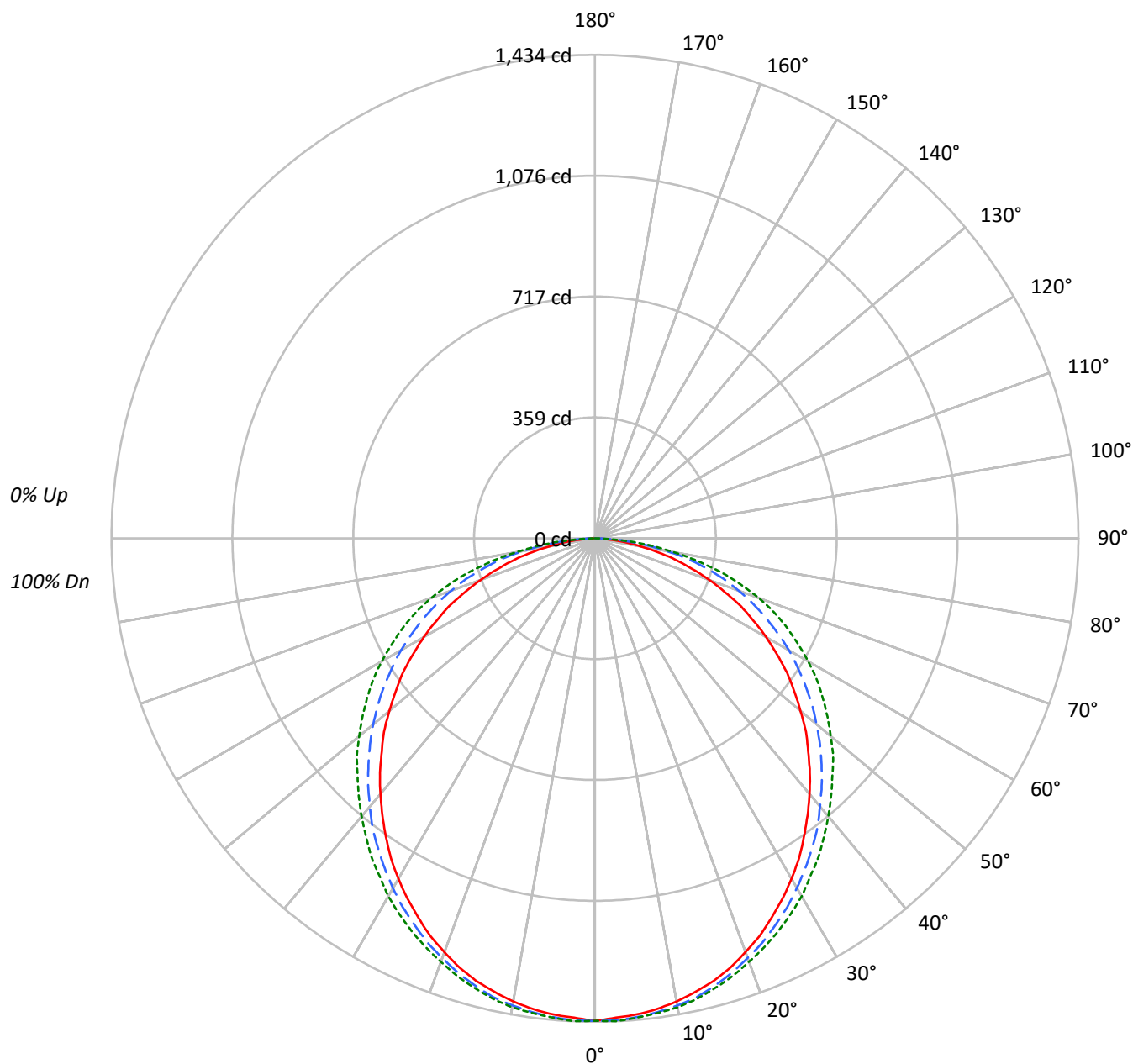
Lumens per Lamp: N/A
Luminaire Lumens: 4210.0 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.6
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

TEST NUMBER: P558475

CATALOG NUMBER: 24CBRK-42-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P558475

CATALOG NUMBER: 24CBRK-42-UNV-L840-CD1-U

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°	1926	1926	1926
5°	1915	1926	1928
10°	1906	1923	1930
15°	1894	1914	1923
20°	1870	1897	1914
25°	1842	1880	1909
30°	1812	1862	1905
35°	1775	1843	1898
40°	1739	1824	1891
45°	1702	1808	1894
50°	1666	1797	1911
55°	1632	1788	1935
60°	1578	1790	1965
65°	1523	1782	2003
70°	1421	1782	2029
75°	1295	1767	2002
80°	1064	1652	1828
85°	699	1379	1522



TEST NUMBER: P558475

CATALOG NUMBER: 24CBRK-42-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	3.2
10°-20°	387.0	9.2
20°-30°	583.2	13.9
30°-40°	701.1	16.7
40°-50°	732.4	17.4
50°-60°	680.6	16.2
60°-70°	549.8	13.1
70°-80°	345.0	8.2
80°-90°	95.6	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°	1105.6	26.3
0°-40°	1806.7	42.9
0°-60°	3219.6	76.5
0°-90°	4210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1418	1421	1426	1429	1427	135
15°	1359	1365	1374	1379	1381	383
25°	1241	1249	1266	1282	1286	572
35°	1081	1094	1122	1145	1156	676
45°	894	913	950	985	996	691
55°	696	714	762	808	825	620
65°	478	502	560	610	629	470
75°	249	284	340	376	385	262
85°	45	72	89	99	99	59
90°	0	0	0	0	0	



TEST NUMBER: P558475

CATALOG NUMBER: 24CBRK-42-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1431.4	1431.4	1431.4	1431.4	1431.4
2.5°	1423.4	1426.1	1431.4	1434.1	1434.1
5°	1418.1	1420.7	1426.1	1428.7	1427.4
7.5°	1408.7	1412.7	1418.1	1420.7	1420.7
10°	1395.4	1399.4	1407.4	1412.7	1412.7
12.5°	1378.1	1383.4	1394.1	1398.1	1399.4
15°	1359.4	1364.7	1374.1	1379.4	1380.7
17.5°	1335.4	1340.8	1351.4	1358.1	1360.8
20°	1306.1	1312.8	1324.8	1335.4	1336.8
22.5°	1276.8	1283.5	1298.1	1310.1	1312.8
25°	1240.8	1248.8	1266.1	1282.1	1286.1
27.5°	1204.8	1214.1	1234.1	1251.5	1256.8
30°	1166.2	1176.8	1198.2	1218.1	1226.1
32.5°	1126.2	1136.8	1160.8	1183.5	1188.8
35°	1080.9	1094.2	1122.2	1144.8	1155.5
37.5°	1035.6	1051.5	1083.5	1110.2	1115.5
40°	990.2	1006.2	1038.2	1068.9	1076.9
42.5°	943.6	960.9	995.6	1027.6	1036.9
45°	894.3	912.9	950.3	984.9	995.6
47.5°	849.0	865.0	904.9	942.3	958.3
50°	795.7	815.7	858.3	898.3	912.9
52.5°	745.0	765.0	811.7	854.3	869.0
55°	695.7	714.4	762.3	807.7	825.0
57.5°	639.7	662.4	713.0	762.3	779.7
60°	586.4	609.1	665.0	714.4	730.4
62.5°	530.4	557.1	611.7	661.1	678.4
65°	478.5	502.5	559.8	610.4	629.1
67.5°	417.2	446.5	507.8	557.1	575.8
70°	361.2	390.5	453.1	501.1	515.8
72.5°	302.5	337.2	399.8	439.8	451.8
75°	249.2	283.9	339.9	375.8	385.2
77.5°	191.9	227.9	282.5	303.9	311.9
80°	137.3	177.3	213.2	230.6	235.9
82.5°	89.3	125.3	149.3	162.6	167.9
85°	45.3	72.0	89.3	98.6	98.6
87.5°	14.7	26.7	32.0	28.0	21.3
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)