

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P798347

Luminaire Tested: 24CBRK-SL3-UNV-MID-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2212-856-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CBRK-SL3-UNV-MID-3500K
Description: CBRK-S Center Basket Retrofit Kit
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

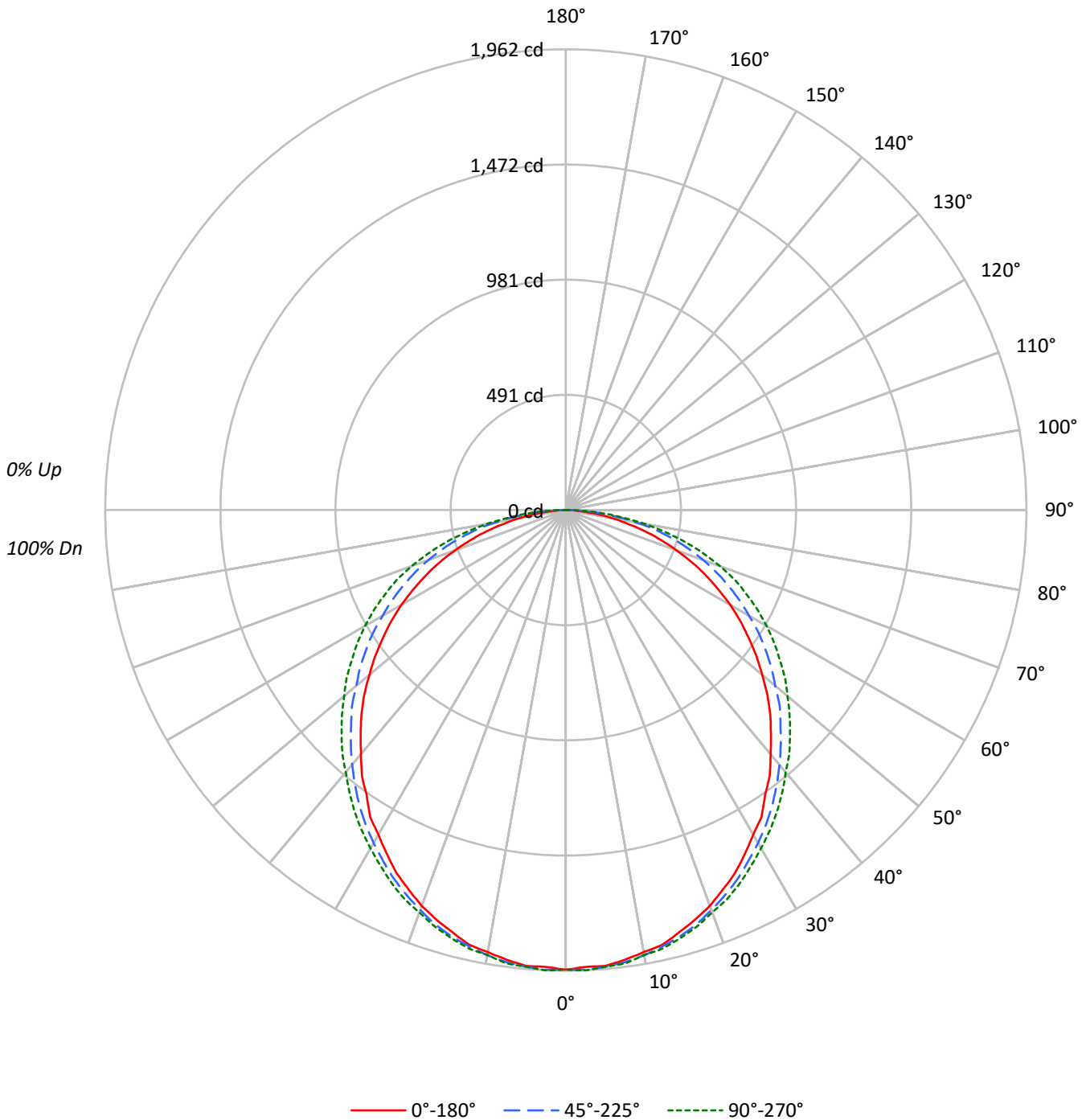
Lumens per Lamp: N/A
Luminaire Lumens: 5772.3 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): 120
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: 24 FT



TEST NUMBER: P798347
CATALOG NUMBER: 24CBRK-SL3-UNV-MID-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P798347

CATALOG NUMBER: 24CBRK-SL3-UNV-MID-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	70	70	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	59	59	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	51	51	51	48
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	44	44	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	38	38	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	34	34	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	30	30	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	27	27	27	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	25	25	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2634	2634	2634
5°	2632	2637	2637
10°	2612	2631	2628
15°	2594	2619	2629
20°	2569	2596	2611
25°	2533	2572	2605
30°	2480	2544	2584
35°	2431	2519	2576
40°	2384	2487	2560
45°	2343	2460	2570
50°	2286	2437	2580
55°	2232	2436	2610
60°	2177	2427	2656
65°	2093	2436	2705
70°	1975	2454	2750
75°	1807	2445	2738
80°	1581	2362	2639
85°	1116	2140	2430

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 70°

Luminance: 2750 cd/sqm



TEST NUMBER: P798347
 CATALOG NUMBER: 24CBRK-SL3-UNV-MID-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.6	3.2
10°-20°	530.0	9.2
20°-30°	798.0	13.8
30°-40°	957.6	16.6
40°-50°	997.9	17.3
50°-60°	926.6	16.1
60°-70°	751.3	13.0
70°-80°	479.1	8.3
80°-90°	146.3	2.5
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°	1513.6	26.2
0°-40°	2471.2	42.8
0°-60°	4395.6	76.2
0°-90°	5772.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5772.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1957	1957	1957	1957	1957	
5°	1948	1951	1952	1958	1952	185
15°	1862	1871	1880	1889	1887	526
25°	1706	1716	1733	1752	1754	784
35°	1480	1499	1534	1562	1568	929
45°	1232	1248	1293	1338	1350	949
55°	952	981	1039	1091	1113	851
65°	657	689	765	830	850	650
75°	348	395	470	521	527	368
85°	72	113	139	152	157	92
90°	0	0	0	0	0	

TEST NUMBER: P798347

CATALOG NUMBER: 24CBRK-SL3-UNV-MID-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1957.4	1957.4	1957.4	1957.4	1957.4
2.5°	1947.5	1956.4	1959.3	1962.3	1962.3
5°	1948.4	1951.4	1952.4	1958.3	1952.4
7.5°	1931.6	1943.5	1941.5	1948.4	1947.5
10°	1911.8	1920.7	1925.7	1933.6	1923.7
12.5°	1897.0	1898.0	1902.9	1913.8	1912.8
15°	1862.3	1871.2	1880.1	1889.0	1887.1
17.5°	1829.6	1843.5	1850.4	1860.3	1859.3
20°	1794.0	1802.9	1812.8	1826.7	1823.7
22.5°	1749.4	1760.3	1774.2	1793.0	1794.0
25°	1705.9	1715.8	1732.6	1752.4	1754.4
27.5°	1651.4	1667.3	1685.1	1707.9	1708.8
30°	1596.0	1611.8	1637.6	1662.3	1663.3
32.5°	1550.4	1561.3	1587.1	1615.8	1617.8
35°	1480.1	1499.0	1533.6	1562.3	1568.3
37.5°	1426.7	1439.6	1475.2	1507.9	1514.8
40°	1357.4	1378.2	1415.8	1454.4	1457.4
42.5°	1293.0	1314.8	1355.4	1395.0	1408.9
45°	1231.6	1247.5	1293.0	1337.6	1350.4
47.5°	1164.3	1186.1	1235.6	1276.2	1293.0
50°	1092.0	1114.8	1164.3	1218.8	1232.6
52.5°	1023.7	1047.5	1104.9	1157.4	1177.2
55°	951.5	981.2	1038.6	1091.0	1112.8
57.5°	881.2	906.9	974.2	1032.6	1052.4
60°	808.9	834.6	901.9	968.3	987.1
62.5°	732.6	765.3	834.6	901.0	920.8
65°	657.4	689.1	765.3	829.7	849.5
67.5°	582.2	614.8	695.0	757.4	781.2
70°	502.0	543.5	623.7	681.2	699.0
72.5°	425.7	470.3	548.5	602.9	613.8
75°	347.5	395.0	470.3	520.8	526.7
77.5°	270.3	323.8	393.1	426.7	433.6
80°	204.0	252.5	304.9	330.7	340.6
82.5°	135.6	181.2	218.8	236.6	239.6
85°	72.3	112.9	138.6	151.5	157.4
87.5°	27.7	46.5	63.4	69.3	70.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)