

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: P798343

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2212-856-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CBRK-SL3-UNV-HIGH-3500K
Description: CBRK-S Center Basket Retrofit Kit
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

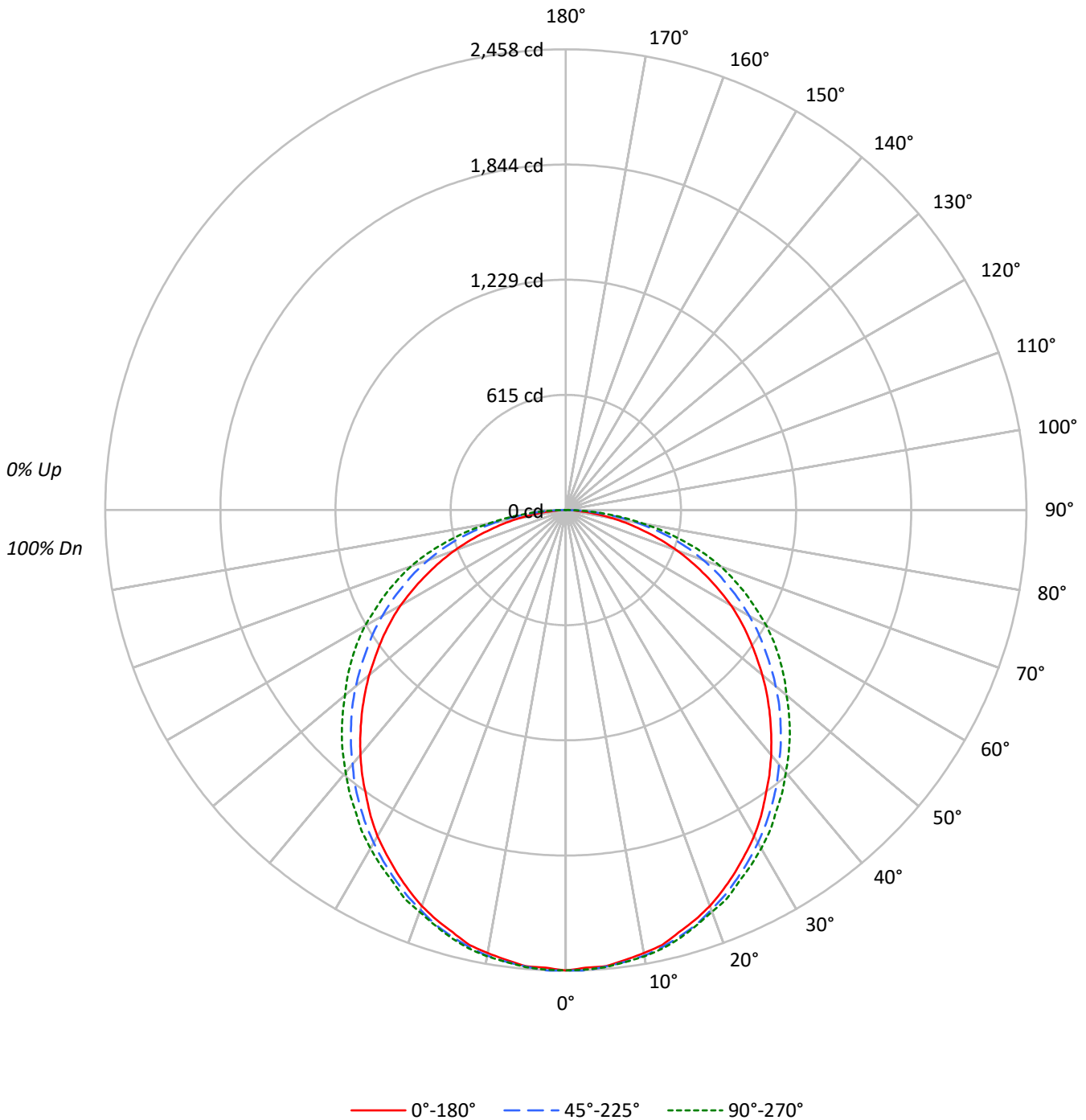
Lumens per Lamp: N/A
Luminaire Lumens: 7224.7 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 54.7
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: P798343
CATALOG NUMBER: 24CBRK-SL3-UNV-HIGH-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P798343

CATALOG NUMBER: 24CBRK-SL3-UNV-HIGH-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°	3305	3305	3305
5°	3300	3303	3307
10°	3279	3299	3303
15°	3249	3280	3292
20°	3219	3249	3266
25°	3169	3217	3247
30°	3123	3186	3239
35°	3052	3152	3217
40°	2995	3109	3208
45°	2929	3084	3218
50°	2866	3061	3219
55°	2803	3040	3272
60°	2742	3045	3330
65°	2616	3045	3379
70°	2485	3073	3463
75°	2249	3078	3443
80°	1956	2954	3276
85°	1360	2644	3057

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 72.5°
 Luminance: 3473 cd/sqm



TEST NUMBER: P798343
 CATALOG NUMBER: 24CBRK-SL3-UNV-HIGH-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	3.2
10°-20°	663.7	9.2
20°-30°	998.6	13.8
30°-40°	1198.5	16.6
40°-50°	1249.1	17.3
50°-60°	1160.2	16.1
60°-70°	939.7	13.0
70°-80°	600.2	8.3
80°-90°	182.4	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°	1894.6	26.2
0°-40°	3093.2	42.8
0°-60°	5502.5	76.2
0°-90°	7224.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7224.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2456	2456	2456	2456	2456	
5°	2444	2436	2445	2455	2448	232
15°	2333	2342	2354	2365	2363	659
25°	2135	2142	2167	2191	2187	984
35°	1858	1875	1919	1955	1958	1164
45°	1540	1562	1621	1677	1691	1188
55°	1195	1228	1296	1369	1395	1068
65°	822	863	956	1037	1061	815
75°	433	494	592	650	662	462
85°	88	136	171	187	198	113
90°	0	0	0	0	0	



TEST NUMBER: P798343

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2456.3	2456.3	2456.3	2456.3	2456.3
2.5°	2444.4	2449.4	2458.3	2461.3	2454.3
5°	2443.5	2435.5	2445.4	2455.3	2448.4
7.5°	2421.7	2423.7	2431.6	2442.5	2432.6
10°	2399.9	2403.9	2414.7	2423.7	2417.7
12.5°	2377.1	2378.1	2387.0	2398.9	2395.9
15°	2332.6	2342.5	2354.4	2365.2	2363.3
17.5°	2293.0	2301.9	2318.7	2328.6	2322.7
20°	2248.4	2255.3	2269.2	2284.1	2281.1
22.5°	2193.0	2199.9	2222.7	2242.5	2245.4
25°	2134.6	2142.5	2167.2	2191.0	2187.0
27.5°	2072.2	2085.1	2110.8	2139.5	2138.5
30°	2009.8	2018.7	2050.4	2078.1	2085.1
32.5°	1937.5	1952.4	1987.0	2017.7	2028.6
35°	1858.3	1875.2	1918.7	1955.4	1958.3
37.5°	1784.1	1802.9	1848.4	1886.1	1897.9
40°	1704.9	1725.7	1770.2	1818.7	1826.7
42.5°	1622.7	1645.5	1697.0	1745.5	1761.3
45°	1539.5	1562.3	1620.7	1677.2	1691.0
47.5°	1455.4	1483.1	1544.5	1598.9	1615.8
50°	1369.2	1396.0	1462.3	1522.7	1537.6
52.5°	1279.2	1316.8	1380.1	1449.4	1469.2
55°	1195.0	1227.7	1296.0	1369.2	1395.0
57.5°	1107.9	1137.6	1216.8	1292.0	1318.8
60°	1018.8	1044.5	1131.6	1207.9	1237.6
62.5°	919.8	953.4	1045.5	1122.7	1145.5
65°	821.7	863.3	956.4	1036.6	1061.3
67.5°	726.7	772.2	872.2	947.5	970.3
70°	631.7	679.2	781.2	852.4	880.2
72.5°	533.6	588.1	690.1	753.4	776.2
75°	432.7	494.0	592.1	649.5	662.3
77.5°	342.6	406.9	487.1	533.6	545.5
80°	252.5	314.8	381.2	416.8	422.8
82.5°	167.3	226.7	274.2	300.0	303.9
85°	88.1	135.6	171.3	187.1	198.0
87.5°	34.7	58.4	79.2	86.1	84.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)