

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: P798344

Luminaire Tested: 24CBRK-SL3-UNV-HIGH-4000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798344  
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-4000K  
Description: CBRK-S Center Basket Retrofit Kit  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

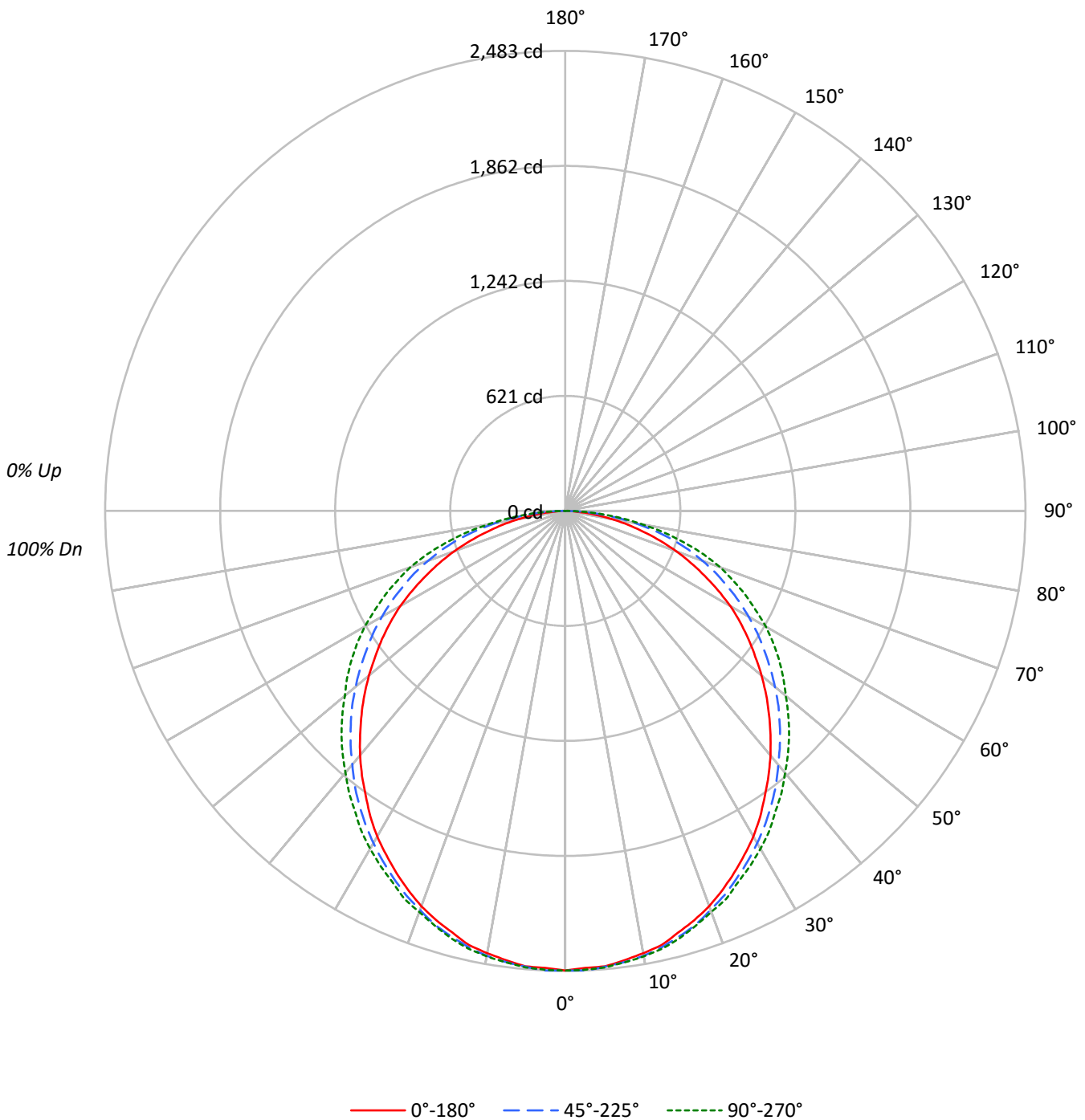
Lumens per Lamp: N/A  
Luminaire Lumens: 7297.0 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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: P798344  
CATALOG NUMBER: 24CBRK-SL3-UNV-HIGH-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P798344

CATALOG NUMBER: 24CBRK-SL3-UNV-HIGH-4000K

**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	0
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	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	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°	3338	3338	3338
5°	3333	3336	3340
10°	3312	3332	3336
15°	3282	3312	3325
20°	3252	3282	3299
25°	3201	3250	3279
30°	3154	3217	3272
35°	3083	3183	3249
40°	3024	3140	3240
45°	2959	3115	3250
50°	2895	3091	3251
55°	2831	3070	3305
60°	2769	3076	3363
65°	2642	3075	3413
70°	2510	3104	3497
75°	2272	3109	3478
80°	1976	2983	3309
85°	1374	2671	3088

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 72.5°

Luminance: 3508 cd/sqm



TEST NUMBER: P798344  
 CATALOG NUMBER: 24CBRK-SL3-UNV-HIGH-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.7	3.2
10°-20°	670.3	9.2
20°-30°	1008.5	13.8
30°-40°	1210.5	16.6
40°-50°	1261.6	17.3
50°-60°	1171.8	16.1
60°-70°	949.1	13.0
70°-80°	606.2	8.3
80°-90°	184.2	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°	1913.6	26.2
0°-40°	3124.1	42.8
0°-60°	5557.5	76.2
0°-90°	7297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7297.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2481	2481	2481	2481	2481	
5°	2468	2460	2470	2480	2473	234
15°	2356	2366	2378	2389	2387	665
25°	2156	2164	2189	2213	2209	994
35°	1877	1894	1938	1975	1978	1176
45°	1555	1578	1637	1694	1708	1200
55°	1207	1240	1309	1383	1409	1079
65°	830	872	966	1047	1072	823
75°	437	499	598	656	669	466
85°	89	137	173	189	200	114
90°	0	0	0	0	0	



TEST NUMBER: P798344

CATALOG NUMBER: 24CBRK-SL3-UNV-HIGH-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2480.9	2480.9	2480.9	2480.9	2480.9
2.5°	2468.9	2473.9	2482.9	2485.9	2478.9
5°	2467.9	2459.9	2469.9	2479.9	2472.9
7.5°	2445.9	2447.9	2455.9	2466.9	2456.9
10°	2423.9	2427.9	2438.9	2447.9	2441.9
12.5°	2400.9	2401.9	2410.9	2422.9	2419.9
15°	2355.9	2365.9	2377.9	2388.9	2386.9
17.5°	2315.9	2324.9	2341.9	2351.9	2345.9
20°	2270.9	2277.9	2291.9	2306.9	2303.9
22.5°	2214.9	2221.9	2244.9	2264.9	2267.9
25°	2155.9	2163.9	2188.9	2212.9	2208.9
27.5°	2092.9	2105.9	2131.9	2160.9	2159.9
30°	2029.9	2038.9	2070.9	2098.9	2105.9
32.5°	1956.9	1971.9	2006.9	2037.9	2048.9
35°	1876.9	1893.9	1937.9	1974.9	1977.9
37.5°	1801.9	1820.9	1866.9	1904.9	1916.9
40°	1721.9	1742.9	1787.9	1836.9	1844.9
42.5°	1638.9	1661.9	1713.9	1762.9	1778.9
45°	1554.9	1577.9	1636.9	1693.9	1707.9
47.5°	1469.9	1497.9	1559.9	1614.9	1631.9
50°	1382.9	1409.9	1476.9	1537.9	1552.9
52.5°	1291.9	1329.9	1393.9	1463.9	1483.9
55°	1206.9	1239.9	1308.9	1382.9	1408.9
57.5°	1119.0	1148.9	1228.9	1304.9	1331.9
60°	1029.0	1055.0	1142.9	1219.9	1249.9
62.5°	929.0	963.0	1056.0	1133.9	1156.9
65°	830.0	872.0	966.0	1047.0	1072.0
67.5°	734.0	780.0	881.0	957.0	980.0
70°	638.0	686.0	789.0	861.0	889.0
72.5°	539.0	594.0	697.0	761.0	784.0
75°	437.0	499.0	598.0	656.0	669.0
77.5°	346.0	411.0	492.0	539.0	551.0
80°	255.0	318.0	385.0	421.0	427.0
82.5°	169.0	229.0	277.0	303.0	307.0
85°	89.0	137.0	173.0	189.0	200.0
87.5°	35.0	59.0	80.0	87.0	85.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)