

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: P798345

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

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798345  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2212-856-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 24CBRK-SL3-UNV-LOW-3500K  
Description: CBRK-S Center Basket Retrofit Kit  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

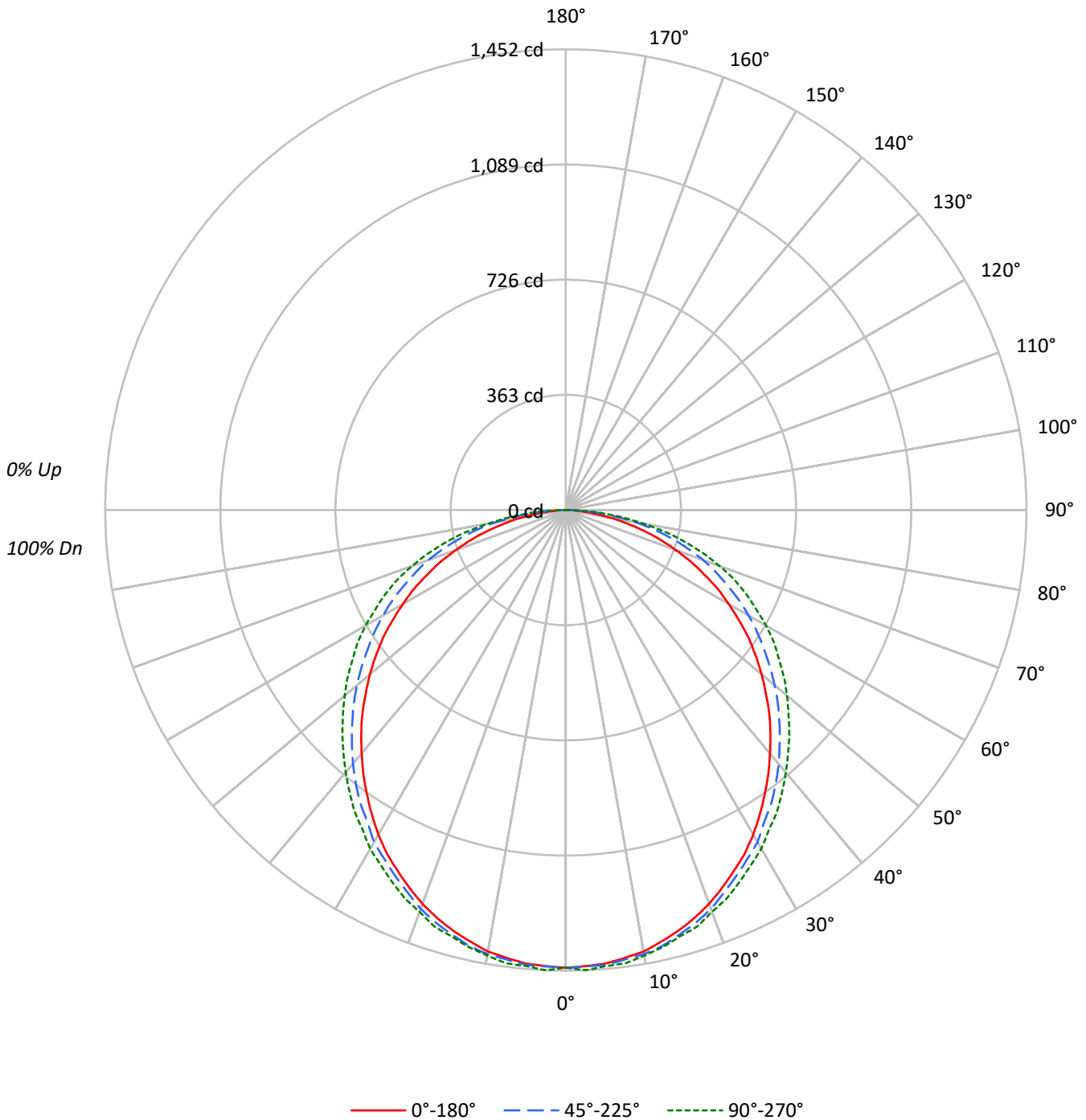
Lumens per Lamp: N/A  
Luminaire Lumens: 4249.5 lumens  
Efficiency: N/A  
Efficacy: 148.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.7  
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



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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	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	40	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°	1941	1941	1941
5°	1938	1943	1949
10°	1931	1941	1948
15°	1912	1930	1938
20°	1891	1916	1930
25°	1863	1889	1921
30°	1835	1878	1915
35°	1796	1854	1906
40°	1758	1833	1896
45°	1726	1813	1896
50°	1687	1799	1905
55°	1651	1786	1923
60°	1596	1791	1961
65°	1535	1791	1999
70°	1449	1815	2030
75°	1333	1791	2028
80°	1158	1742	1925
85°	841	1559	1819

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 72.5°  
 Luminance: 2038 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.8	3.2
10°-20°	390.8	9.2
20°-30°	587.9	13.8
30°-40°	705.4	16.6
40°-50°	734.9	17.3
50°-60°	681.9	16.0
60°-70°	552.7	13.0
70°-80°	351.8	8.3
80°-90°	107.2	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°	1115.5	26.3
0°-40°	1820.9	42.9
0°-60°	3237.8	76.2
0°-90°	4249.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4249.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1443	1443	1443	1443	1443	
5°	1435	1433	1439	1445	1443	136
15°	1372	1378	1385	1395	1391	387
25°	1255	1264	1272	1292	1294	578
35°	1093	1104	1129	1150	1160	684
45°	907	921	953	985	996	699
55°	704	719	762	803	820	627
65°	482	506	562	611	628	478
75°	256	289	345	380	390	271
85°	54	81	101	113	118	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1442.7	1442.7	1442.7	1442.7	1442.7
2.5°	1438.8	1441.7	1439.8	1445.7	1451.7
5°	1434.8	1432.8	1438.8	1444.7	1442.7
7.5°	1423.9	1427.9	1428.9	1436.8	1440.8
10°	1413.0	1418.0	1421.0	1426.9	1425.9
12.5°	1393.2	1398.2	1407.1	1412.0	1411.1
15°	1372.4	1378.4	1385.3	1395.2	1391.2
17.5°	1348.7	1353.6	1363.5	1371.4	1376.4
20°	1320.9	1325.9	1337.8	1346.7	1347.7
22.5°	1288.3	1295.2	1304.1	1321.9	1324.9
25°	1254.6	1264.5	1272.4	1292.2	1294.2
27.5°	1220.9	1224.9	1239.7	1259.6	1262.5
30°	1181.3	1190.2	1209.0	1222.9	1232.8
32.5°	1137.8	1148.6	1164.5	1188.3	1193.2
35°	1093.2	1104.1	1128.8	1149.6	1160.5
37.5°	1048.6	1060.5	1087.3	1111.0	1119.9
40°	1001.1	1014.0	1043.7	1070.4	1079.3
42.5°	954.6	966.4	998.1	1025.9	1037.7
45°	907.0	920.9	952.6	985.3	996.2
47.5°	855.5	872.4	907.0	940.7	952.6
50°	806.0	821.9	859.5	897.1	910.0
52.5°	754.5	771.4	811.0	851.6	867.4
55°	704.0	718.9	761.5	803.1	819.9
57.5°	647.6	666.4	714.9	760.5	778.3
60°	593.1	615.9	665.4	713.0	728.8
62.5°	540.7	559.5	615.9	657.5	676.3
65°	482.2	506.0	562.4	611.0	627.8
67.5°	427.8	454.5	511.9	557.5	575.3
70°	368.4	398.1	461.4	502.0	515.9
72.5°	313.9	342.6	403.0	441.6	455.5
75°	256.5	289.1	344.6	380.2	390.1
77.5°	199.0	235.7	286.2	313.9	324.8
80°	149.5	185.2	224.8	243.6	248.5
82.5°	97.0	132.7	159.4	175.3	180.2
85°	54.5	81.2	101.0	112.9	117.8
87.5°	18.8	33.7	45.5	50.5	46.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)