

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: P798346

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798346
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-4000K
Description: CBRK-S Center Basket Retrofit Kit
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

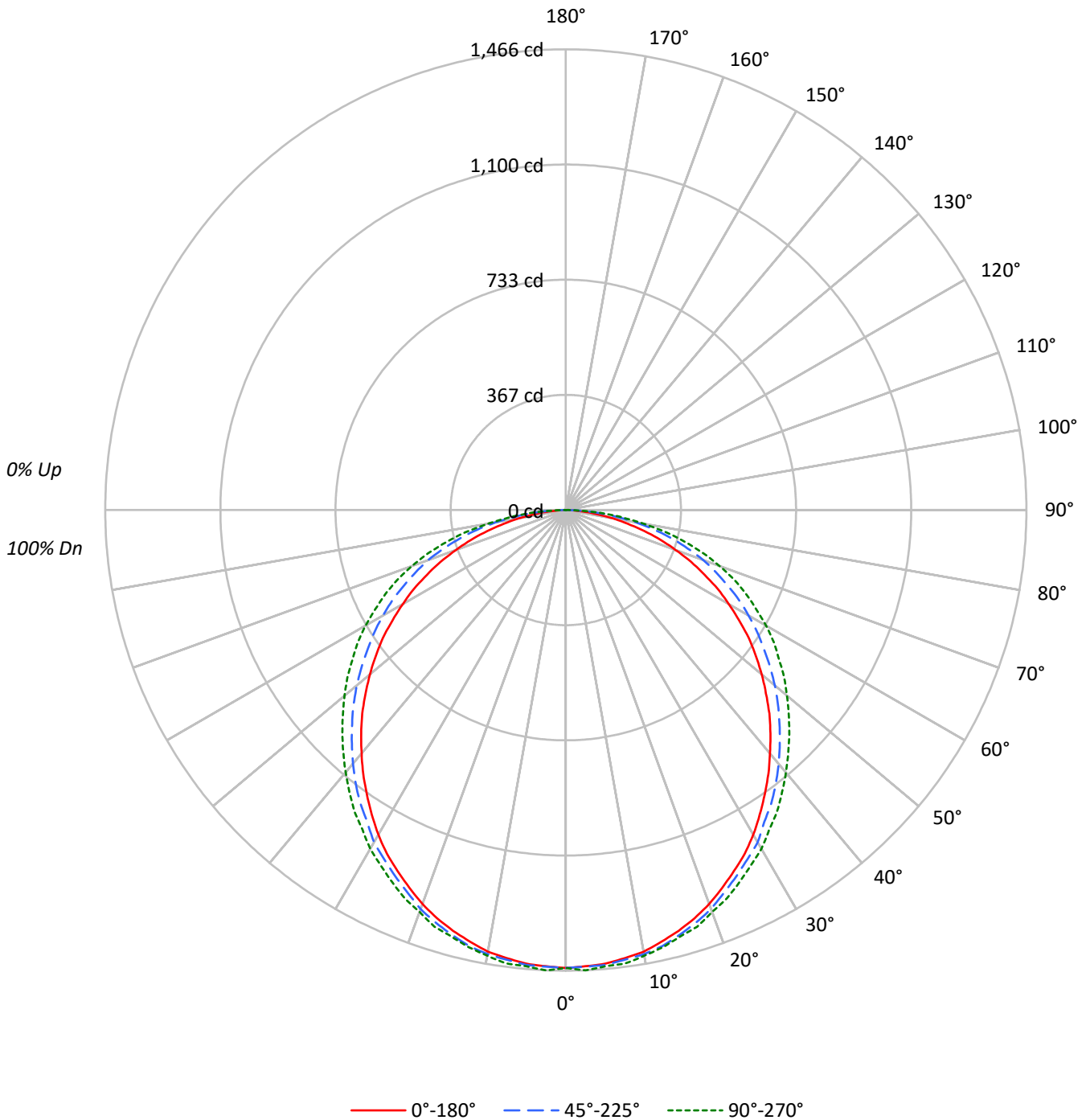
Lumens per Lamp: N/A
Luminaire Lumens: 4292.0 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1961	1961	1961
5°	1957	1963	1968
10°	1950	1961	1968
15°	1931	1949	1957
20°	1910	1935	1949
25°	1881	1908	1941
30°	1854	1897	1934
35°	1814	1873	1925
40°	1776	1851	1915
45°	1743	1831	1914
50°	1704	1817	1924
55°	1668	1804	1943
60°	1612	1809	1981
65°	1551	1809	2019
70°	1463	1834	2050
75°	1346	1809	2048
80°	1170	1759	1945
85°	849	1575	1837

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 72.5°

Luminance: 2059 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.1	3.2
10°-20°	394.7	9.2
20°-30°	593.8	13.8
30°-40°	712.5	16.6
40°-50°	742.3	17.3
50°-60°	688.7	16.0
60°-70°	558.3	13.0
70°-80°	355.3	8.3
80°-90°	108.2	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°	1126.7	26.3
0°-40°	1839.1	42.9
0°-60°	3270.1	76.2
0°-90°	4292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1457	1457	1457	1457	1457	
5°	1449	1447	1453	1459	1457	138
15°	1386	1392	1399	1409	1405	391
25°	1267	1277	1285	1305	1307	584
35°	1104	1115	1140	1161	1172	691
45°	916	930	962	995	1006	706
55°	711	726	769	811	828	634
65°	487	511	568	617	634	483
75°	259	292	348	384	394	274
85°	55	82	102	114	119	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1457.2	1457.2	1457.2	1457.2	1457.2
2.5°	1453.2	1456.2	1454.2	1460.2	1466.2
5°	1449.2	1447.2	1453.2	1459.2	1457.2
7.5°	1438.2	1442.2	1443.2	1451.2	1455.2
10°	1427.2	1432.2	1435.2	1441.2	1440.2
12.5°	1407.2	1412.2	1421.2	1426.2	1425.2
15°	1386.2	1392.2	1399.2	1409.2	1405.2
17.5°	1362.2	1367.2	1377.2	1385.2	1390.2
20°	1334.2	1339.2	1351.2	1360.2	1361.2
22.5°	1301.1	1308.2	1317.2	1335.2	1338.2
25°	1267.1	1277.1	1285.1	1305.1	1307.2
27.5°	1233.1	1237.1	1252.1	1272.1	1275.1
30°	1193.1	1202.1	1221.1	1235.1	1245.1
32.5°	1149.1	1160.1	1176.1	1200.1	1205.1
35°	1104.1	1115.1	1140.1	1161.1	1172.1
37.5°	1059.1	1071.1	1098.1	1122.1	1131.1
40°	1011.1	1024.1	1054.1	1081.1	1090.1
42.5°	964.1	976.1	1008.1	1036.1	1048.1
45°	916.1	930.1	962.1	995.1	1006.1
47.5°	864.1	881.1	916.1	950.1	962.1
50°	814.1	830.1	868.1	906.1	919.1
52.5°	762.1	779.1	819.1	860.1	876.1
55°	711.1	726.1	769.1	811.1	828.1
57.5°	654.1	673.1	722.1	768.1	786.1
60°	599.1	622.1	672.1	720.1	736.1
62.5°	546.1	565.1	622.1	664.1	683.1
65°	487.1	511.1	568.1	617.1	634.1
67.5°	432.0	459.1	517.1	563.1	581.1
70°	372.0	402.0	466.1	507.1	521.1
72.5°	317.0	346.0	407.0	446.1	460.1
75°	259.0	292.0	348.0	384.0	394.0
77.5°	201.0	238.0	289.0	317.0	328.0
80°	151.0	187.0	227.0	246.0	251.0
82.5°	98.0	134.0	161.0	177.0	182.0
85°	55.0	82.0	102.0	114.0	119.0
87.5°	19.0	34.0	46.0	51.0	47.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)