

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: P798333

Luminaire Tested: 14CBRK-SL3-UNV-HIGH-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-192-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CBRK-SL3-UNV-HIGH-3500K
Description: CBRK-S Center Basket Retrofit Kit
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

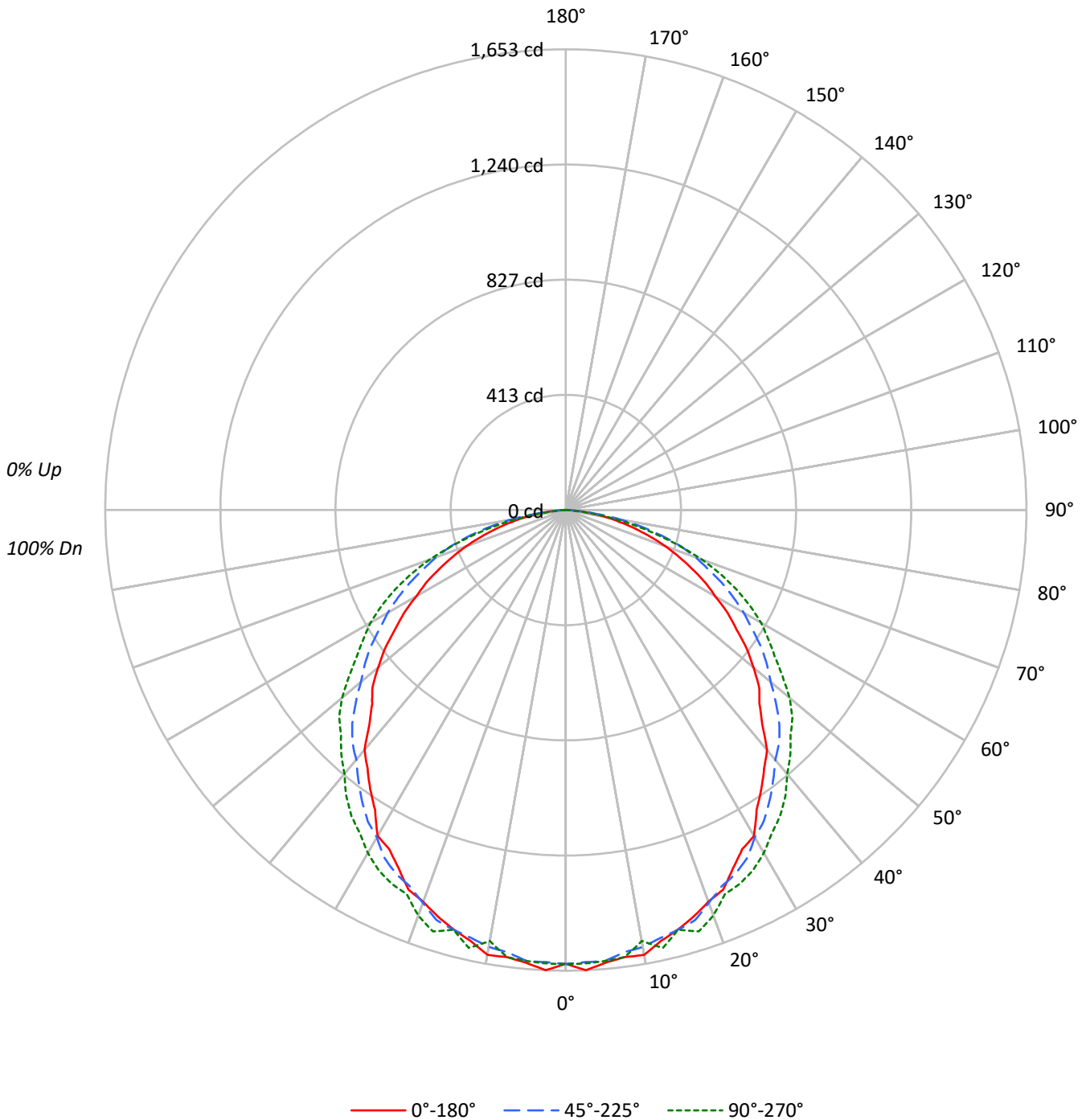
Lumens per Lamp: N/A
Luminaire Lumens: 4673.7 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36
Input Voltage (V): 120
Input Current (A_{in}): 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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4382	4382	4382
5°	4404	4386	4388
10°	4429	4349	4291
15°	4340	4342	4342
20°	4283	4294	4433
25°	4214	4277	4392
30°	4196	4214	4416
35°	4019	4187	4404
40°	3947	4110	4341
45°	3741	4124	4342
50°	3681	4018	4387
55°	3511	4011	4293
60°	3334	3970	4356
65°	3191	3932	4302
70°	3005	3890	4095
75°	2691	3709	3507
80°	2238	3124	2583
85°	1556	1587	898

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 47.5°
 Luminance: 4394 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	3.3
10°-20°	441.9	9.5
20°-30°	667.0	14.3
30°-40°	801.7	17.2
40°-50°	832.3	17.8
50°-60°	759.4	16.2
60°-70°	599.4	12.8
70°-80°	346.3	7.4
80°-90°	71.6	1.5
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°	1263.1	27.0
0°-40°	2064.8	44.2
0°-60°	3656.4	78.2
0°-90°	4673.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4673.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1630	1626	1624	1635	1625	155
15°	1558	1566	1559	1577	1559	440
25°	1419	1438	1440	1473	1479	656
35°	1223	1243	1275	1345	1341	767
45°	983	1021	1084	1131	1141	766
55°	748	785	855	921	915	672
65°	501	550	618	677	676	497
75°	259	308	357	348	337	273
85°	50	71	51	34	29	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1628.5	1628.5	1628.5	1628.5	1628.5
2.5°	1652.7	1621.7	1623.7	1629.5	1628.5
5°	1630.4	1625.6	1623.7	1635.3	1624.6
7.5°	1617.8	1615.9	1600.4	1617.8	1617.8
10°	1620.7	1598.4	1591.7	1598.4	1570.3
12.5°	1582.9	1579.1	1572.3	1596.5	1609.1
15°	1557.7	1566.5	1558.7	1577.1	1558.7
17.5°	1528.7	1531.6	1543.2	1548.0	1585.8
20°	1495.7	1511.2	1499.6	1527.7	1548.0
22.5°	1474.4	1477.3	1461.8	1496.7	1491.8
25°	1419.1	1438.5	1440.4	1473.4	1479.2
27.5°	1371.6	1379.4	1408.5	1431.7	1456.0
30°	1350.3	1336.7	1356.1	1400.7	1421.1
32.5°	1274.7	1292.1	1323.2	1356.1	1375.5
35°	1223.3	1242.7	1274.7	1345.4	1340.6
37.5°	1169.0	1196.2	1222.3	1281.5	1294.1
40°	1123.5	1144.8	1170.0	1234.0	1235.9
42.5°	1043.0	1090.5	1133.2	1194.2	1192.3
45°	982.9	1020.7	1083.7	1131.2	1140.9
47.5°	941.2	968.4	1022.7	1094.4	1103.1
50°	879.2	913.1	959.7	1037.2	1047.9
52.5°	819.1	851.1	909.2	971.3	980.0
55°	748.3	785.2	855.0	920.9	915.1
57.5°	689.2	729.9	791.0	859.8	860.8
60°	619.4	668.8	737.7	804.6	809.4
62.5°	565.1	605.8	677.6	736.7	745.4
65°	501.2	549.6	617.5	676.6	675.6
67.5°	440.1	483.7	551.6	611.7	601.0
70°	381.9	423.6	494.4	529.3	520.5
72.5°	317.9	366.4	434.3	441.1	427.5
75°	258.8	308.3	356.7	348.0	337.3
77.5°	197.7	249.1	280.1	259.8	251.1
80°	144.4	196.8	201.6	179.3	166.7
82.5°	93.1	132.8	124.1	100.8	92.1
85°	50.4	70.8	51.4	33.9	29.1
87.5°	19.4	18.4	5.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)