

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: P798334

Luminaire Tested: 14CBRK-SL3-UNV-HIGH-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798334
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-4000K
Description: CBRK-S Center Basket Retrofit Kit
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

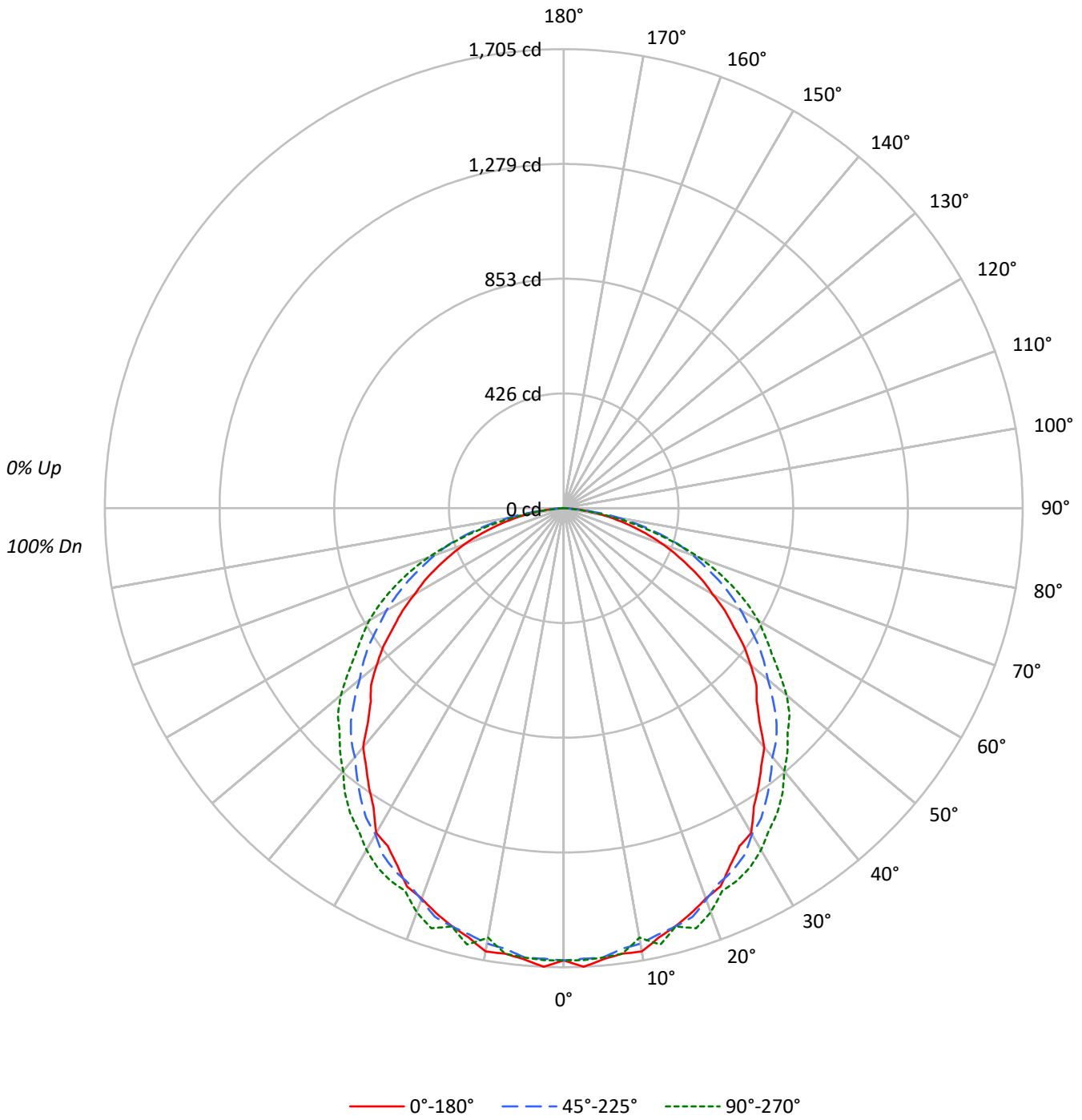
Lumens per Lamp: N/A
Luminaire Lumens: 4821.0 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84	84	84	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69	69	69	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58	58	58	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50	50	50	50
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43	43	43	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37	37	37	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33	33	33	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29	29	29	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4520	4520	4520
5°	4543	4524	4527
10°	4568	4486	4426
15°	4476	4479	4479
20°	4418	4430	4573
25°	4347	4412	4530
30°	4328	4347	4555
35°	4145	4320	4543
40°	4071	4240	4478
45°	3859	4254	4479
50°	3797	4144	4525
55°	3621	4138	4428
60°	3439	4095	4493
65°	3291	4055	4437
70°	3100	4012	4224
75°	2776	3826	3618
80°	2309	3223	2665
85°	1606	1636	926

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 47.5°
 Luminance: 4532 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	3.3
10°-20°	455.8	9.5
20°-30°	688.0	14.3
30°-40°	827.0	17.2
40°-50°	858.5	17.8
50°-60°	783.3	16.2
60°-70°	618.2	12.8
70°-80°	357.2	7.4
80°-90°	73.9	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°	1302.9	27.0
0°-40°	2129.8	44.2
0°-60°	3771.7	78.2
0°-90°	4821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4821.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1680	1680	1680	1680	1680	
5°	1682	1677	1675	1687	1676	160
15°	1607	1616	1608	1627	1608	453
25°	1464	1484	1486	1520	1526	677
35°	1262	1282	1315	1388	1383	792
45°	1014	1053	1118	1167	1177	790
55°	772	810	882	950	944	693
65°	517	567	637	698	697	512
75°	267	318	368	359	348	282
85°	52	73	53	35	30	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1679.8	1679.8	1679.8	1679.8	1679.8
2.5°	1704.8	1672.8	1674.8	1680.8	1679.8
5°	1681.8	1676.8	1674.8	1686.8	1675.8
7.5°	1668.8	1666.8	1650.8	1668.8	1668.8
10°	1671.8	1648.8	1641.8	1648.8	1619.8
12.5°	1632.8	1628.8	1621.8	1646.8	1659.8
15°	1606.8	1615.8	1607.8	1626.8	1607.8
17.5°	1576.8	1579.8	1591.8	1596.8	1635.8
20°	1542.8	1558.8	1546.8	1575.8	1596.8
22.5°	1520.8	1523.8	1507.8	1543.8	1538.8
25°	1463.9	1483.9	1485.8	1519.8	1525.8
27.5°	1414.9	1422.9	1452.9	1476.9	1501.8
30°	1392.9	1378.9	1398.9	1444.9	1465.9
32.5°	1314.9	1332.9	1364.9	1398.9	1418.9
35°	1261.9	1281.9	1314.9	1387.9	1382.9
37.5°	1205.9	1233.9	1260.9	1321.9	1334.9
40°	1158.9	1180.9	1206.9	1272.9	1274.9
42.5°	1075.9	1124.9	1168.9	1231.9	1229.9
45°	1013.9	1052.9	1117.9	1166.9	1176.9
47.5°	970.9	998.9	1054.9	1128.9	1137.9
50°	906.9	941.9	989.9	1069.9	1080.9
52.5°	844.9	877.9	937.9	1001.9	1010.9
55°	771.9	809.9	881.9	949.9	943.9
57.5°	710.9	752.9	815.9	886.9	887.9
60°	638.9	689.9	760.9	829.9	834.9
62.5°	582.9	624.9	698.9	759.9	768.9
65°	516.9	566.9	636.9	697.9	696.9
67.5°	454.0	498.9	568.9	630.9	619.9
70°	394.0	437.0	509.9	545.9	536.9
72.5°	328.0	378.0	448.0	455.0	441.0
75°	267.0	318.0	368.0	359.0	348.0
77.5°	204.0	257.0	289.0	268.0	259.0
80°	149.0	203.0	208.0	185.0	172.0
82.5°	96.0	137.0	128.0	104.0	95.0
85°	52.0	73.0	53.0	35.0	30.0
87.5°	20.0	19.0	6.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)