

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: P798359

Luminaire Tested: 22CBRK-SL3-UNV-HIGH-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2306-063-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CBRK-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: 4489.0 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

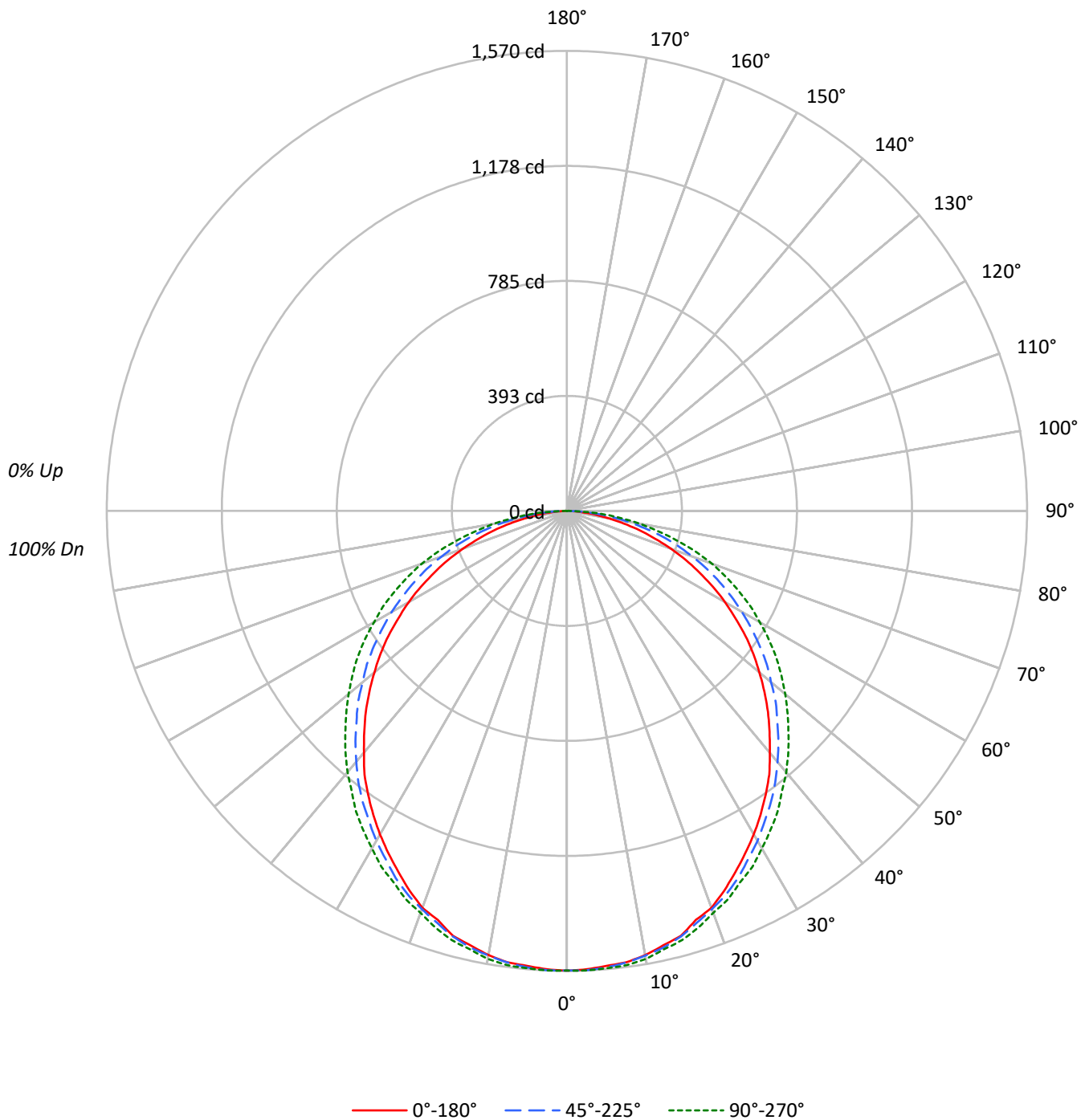
Input Watts (W): 32.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	46		57	50	45		55
6	69	56	47	40	68	55	46	40	53	46	40		51	45	39		50
7	64	51	42	36	63	50	41	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42
9	56	42	34	29	55	42	34	29	41	33	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4222	4222	4222
5°	4210	4224	4232
10°	4206	4212	4242
15°	4183	4189	4226
20°	4128	4142	4180
25°	4037	4104	4152
30°	3962	4041	4133
35°	3884	3988	4119
40°	3784	3927	4089
45°	3692	3863	4068
50°	3587	3805	4070
55°	3489	3766	4092
60°	3355	3711	4090
65°	3182	3657	4118
70°	2969	3580	4142
75°	2673	3489	4030
80°	2245	3240	3905
85°	1544	2930	3653

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 70°

Luminance: 4142 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	3.3
10°-20°	423.6	9.4
20°-30°	636.1	14.2
30°-40°	759.9	16.9
40°-50°	785.9	17.5
50°-60°	719.5	16.0
60°-70°	567.7	12.6
70°-80°	346.6	7.7
80°-90°	101.2	2.3
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°	1208.2	26.9
0°-40°	1968.2	43.8
0°-60°	3473.5	77.4
0°-90°	4489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4489.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1569	1569	1569	1569	1569	
5°	1559	1563	1564	1565	1567	148
15°	1502	1493	1504	1506	1517	422
25°	1360	1367	1382	1398	1398	627
35°	1182	1189	1214	1242	1254	739
45°	970	982	1015	1053	1069	748
55°	744	757	803	851	872	663
65°	500	521	574	624	647	495
75°	257	284	336	372	388	273
85°	50	69	95	114	118	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1568.9	1568.9	1568.9	1568.9	1568.9
2.5°	1565.8	1566.8	1568.9	1567.9	1569.9
5°	1558.7	1562.8	1563.8	1564.8	1566.8
7.5°	1553.6	1546.4	1554.6	1557.7	1563.8
10°	1539.3	1531.1	1541.3	1548.5	1552.6
12.5°	1518.9	1512.8	1526.0	1526.0	1532.2
15°	1501.6	1493.4	1503.6	1505.6	1516.9
17.5°	1463.8	1466.9	1474.0	1484.2	1491.4
20°	1441.4	1438.3	1446.5	1456.7	1459.7
22.5°	1402.6	1401.6	1417.9	1426.1	1435.3
25°	1359.8	1366.9	1382.2	1397.5	1398.5
27.5°	1317.9	1326.1	1339.4	1358.8	1370.0
30°	1275.1	1283.3	1300.6	1320.0	1330.2
32.5°	1229.2	1234.3	1255.7	1283.3	1292.4
35°	1182.3	1189.4	1213.9	1242.5	1253.7
37.5°	1134.3	1139.4	1168.0	1197.6	1205.7
40°	1077.2	1086.4	1118.0	1146.6	1163.9
42.5°	1023.1	1039.5	1068.0	1099.7	1118.0
45°	970.1	982.3	1015.0	1052.7	1069.0
47.5°	914.0	929.3	967.0	1005.8	1021.1
50°	856.9	876.3	908.9	956.8	972.1
52.5°	801.8	817.1	859.9	903.8	922.2
55°	743.6	756.9	802.8	850.7	872.2
57.5°	681.4	701.8	745.7	796.7	817.1
60°	623.3	641.6	689.6	742.6	760.0
62.5°	562.1	581.4	632.5	682.4	706.9
65°	499.8	521.3	574.3	624.3	646.7
67.5°	440.7	464.1	517.2	564.1	586.5
70°	377.4	404.0	455.0	506.0	526.4
72.5°	316.2	343.8	396.8	440.7	458.0
75°	257.1	283.6	335.6	372.3	387.6
77.5°	199.9	226.5	271.3	303.0	316.2
80°	144.9	169.3	209.1	237.7	252.0
82.5°	94.9	119.3	151.0	178.5	184.6
85°	50.0	69.4	94.9	114.2	118.3
87.5°	17.3	24.5	36.7	39.8	40.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)