

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: P798337

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-192-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CBRK-SL3-UNV-MID-3500K
Description: CBRK-S Center Basket Retrofit Kit
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

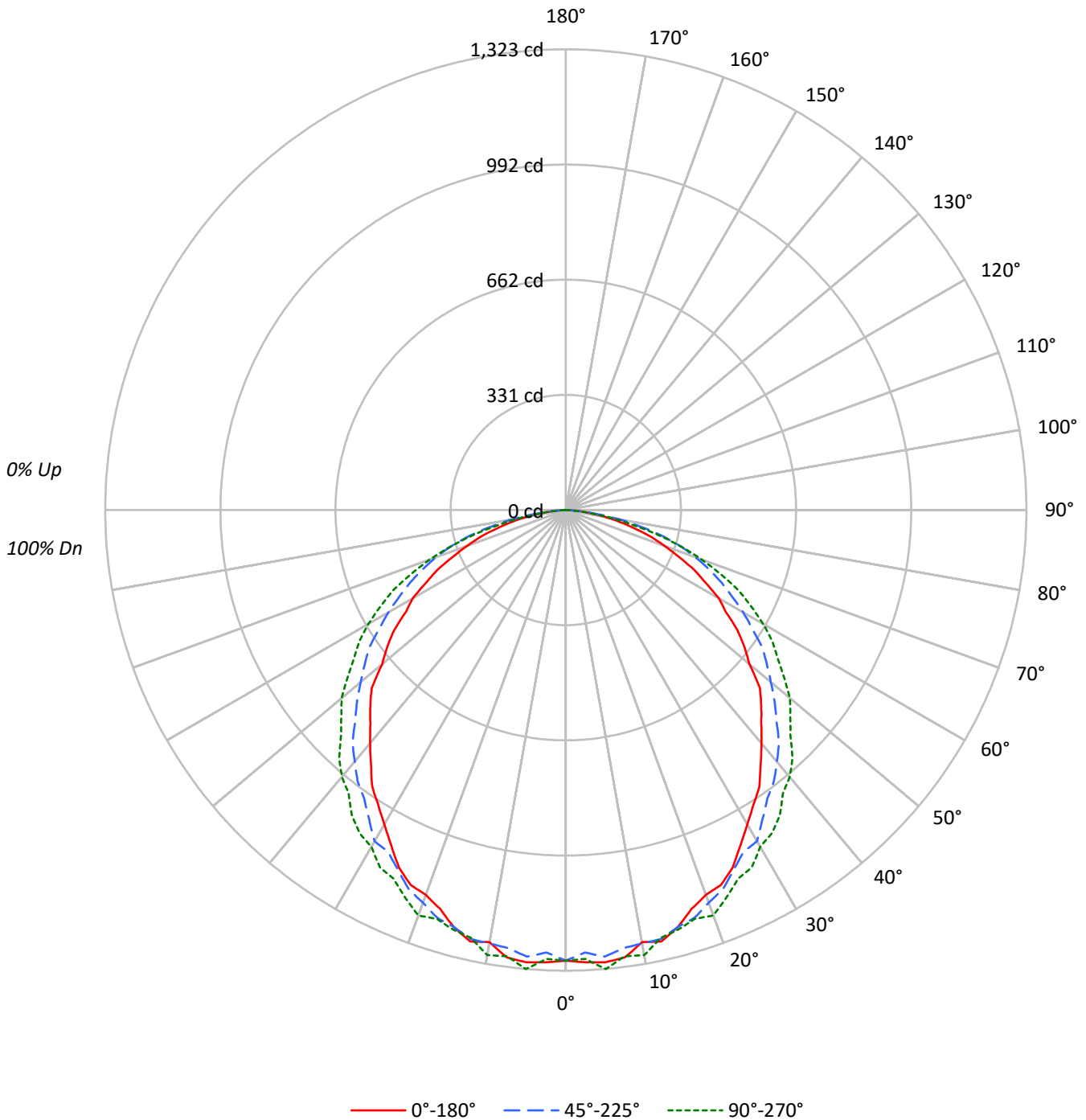
Lumens per Lamp: N/A
Luminaire Lumens: 3714.9 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27.5
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84	84	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69	69	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58	58	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50	50	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43	43	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37	37	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33	33	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29	29	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3482	3482	3482
5°	3522	3477	3574
10°	3443	3451	3547
15°	3457	3454	3476
20°	3367	3437	3548
25°	3365	3385	3471
30°	3238	3413	3470
35°	3185	3318	3519
40°	3072	3313	3514
45°	3021	3254	3471
50°	2881	3218	3518
55°	2824	3233	3483
60°	2733	3167	3527
65°	2592	3142	3494
70°	2379	3120	3272
75°	2126	2974	2822
80°	1773	2448	2058
85°	1288	1288	599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 60°
 Luminance: 3527 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	3.3
10°-20°	351.4	9.5
20°-30°	529.3	14.2
30°-40°	635.8	17.1
40°-50°	661.0	17.8
50°-60°	605.4	16.3
60°-70°	477.4	12.9
70°-80°	275.2	7.4
80°-90°	56.7	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°	1003.4	27.0
0°-40°	1639.2	44.1
0°-60°	2905.6	78.2
0°-90°	3714.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3714.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1304	1293	1287	1300	1323	123
15°	1241	1238	1240	1247	1248	348
25°	1133	1134	1140	1161	1169	518
35°	969	979	1010	1058	1071	603
45°	794	812	855	900	912	610
55°	602	631	689	728	742	535
65°	407	434	493	538	549	399
75°	204	242	286	279	271	219
85°	42	55	42	26	19	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1294.1	1294.1	1294.1	1294.1	1294.1
2.5°	1299.9	1293.1	1271.8	1295.1	1290.2
5°	1303.8	1293.1	1287.3	1299.9	1323.2
7.5°	1296.0	1279.6	1268.9	1277.6	1292.2
10°	1260.2	1266.0	1263.1	1292.2	1298.0
12.5°	1268.9	1267.0	1262.1	1266.0	1258.2
15°	1240.8	1237.9	1239.8	1246.6	1247.6
17.5°	1201.0	1214.6	1228.2	1248.5	1231.1
20°	1175.8	1193.3	1200.1	1216.6	1238.8
22.5°	1165.2	1159.4	1178.7	1195.2	1204.9
25°	1133.2	1134.2	1140.0	1161.3	1169.1
27.5°	1085.7	1094.4	1106.0	1142.9	1156.5
30°	1042.1	1060.5	1098.3	1113.8	1116.7
32.5°	1003.3	1021.7	1051.8	1077.0	1101.2
35°	969.4	979.1	1010.1	1057.6	1071.1
37.5°	919.0	942.2	982.0	1013.0	1024.6
40°	874.4	902.5	943.2	983.9	1000.4
42.5°	830.7	864.7	906.4	942.2	963.5
45°	793.9	812.3	855.0	900.5	912.2
47.5°	756.1	758.0	813.3	859.8	874.4
50°	688.2	718.3	768.7	816.2	840.4
52.5°	646.6	674.7	728.0	767.7	790.0
55°	602.0	631.1	689.2	728.0	742.5
57.5°	544.8	573.9	634.9	685.3	703.8
60°	507.9	523.5	588.4	634.9	655.3
62.5°	451.7	481.8	539.0	582.6	600.0
65°	407.1	434.3	493.4	538.0	548.7
67.5°	349.9	384.8	444.9	481.8	481.8
70°	302.4	331.5	396.5	415.9	415.9
72.5°	257.9	289.8	345.1	350.9	345.1
75°	204.5	242.3	286.0	279.2	271.4
77.5°	159.0	198.7	220.0	208.4	196.8
80°	114.4	152.2	158.0	140.6	132.8
82.5°	75.6	105.7	97.9	80.5	76.6
85°	41.7	55.3	41.7	26.2	19.4
87.5°	15.5	15.5	4.8	3.9	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)