

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: P798338

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798338
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-4000K
Description: CBRK-S Center Basket Retrofit Kit
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

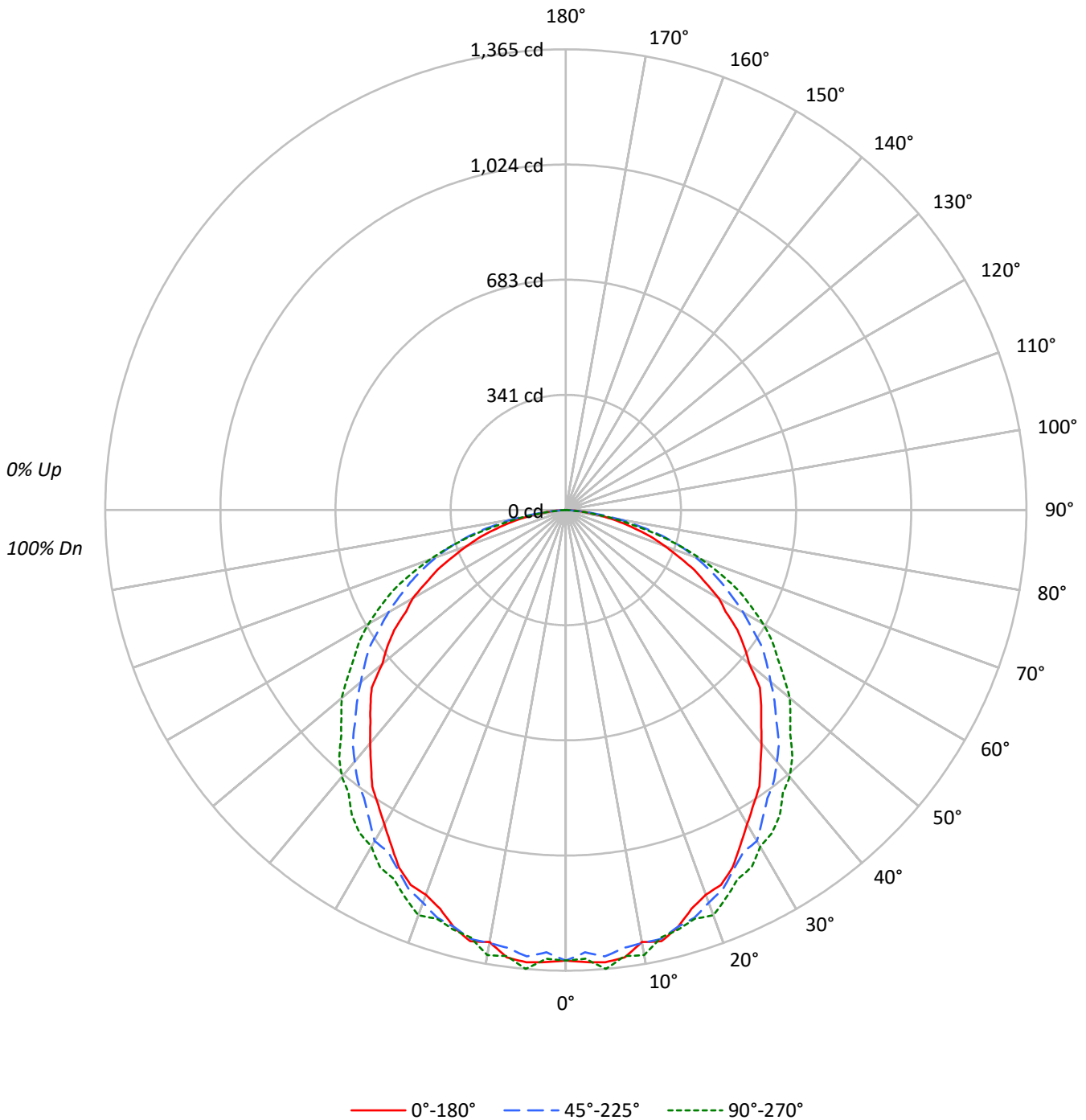
Lumens per Lamp: N/A
Luminaire Lumens: 3832.0 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3592	3592	3592
5°	3633	3587	3687
10°	3552	3560	3659
15°	3566	3563	3585
20°	3473	3545	3659
25°	3471	3491	3581
30°	3340	3520	3579
35°	3285	3423	3630
40°	3168	3418	3625
45°	3116	3356	3581
50°	2972	3319	3629
55°	2913	3335	3593
60°	2820	3267	3638
65°	2674	3241	3604
70°	2455	3218	3375
75°	2194	3067	2911
80°	1829	2526	2123
85°	1328	1328	618

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 60°
 Luminance: 3638 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	3.3
10°-20°	362.5	9.5
20°-30°	546.0	14.2
30°-40°	655.8	17.1
40°-50°	681.8	17.8
50°-60°	624.5	16.3
60°-70°	492.5	12.9
70°-80°	283.9	7.4
80°-90°	58.5	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°	1035.0	27.0
0°-40°	1690.8	44.1
0°-60°	2997.1	78.2
0°-90°	3832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1335	1335	1335	1335	1335	
5°	1345	1334	1328	1341	1365	127
15°	1280	1277	1279	1286	1287	359
25°	1169	1170	1176	1198	1206	534
35°	1000	1010	1042	1091	1105	622
45°	819	838	882	929	941	630
55°	621	651	711	751	766	552
65°	420	448	509	555	566	412
75°	211	250	295	288	280	226
85°	43	57	43	27	20	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1334.9	1334.9	1334.9	1334.9	1334.9
2.5°	1340.9	1333.9	1311.9	1335.9	1330.9
5°	1344.9	1333.9	1327.9	1340.9	1364.9
7.5°	1336.9	1319.9	1308.9	1317.9	1332.9
10°	1299.9	1305.9	1302.9	1332.9	1338.9
12.5°	1308.9	1306.9	1301.9	1305.9	1297.9
15°	1279.9	1276.9	1278.9	1285.9	1286.9
17.5°	1238.9	1252.9	1266.9	1287.9	1269.9
20°	1212.9	1230.9	1237.9	1254.9	1277.9
22.5°	1201.9	1195.9	1215.9	1232.9	1242.9
25°	1168.9	1169.9	1175.9	1197.9	1205.9
27.5°	1119.9	1128.9	1140.9	1178.9	1192.9
30°	1074.9	1093.9	1132.9	1148.9	1151.9
32.5°	1034.9	1053.9	1084.9	1110.9	1135.9
35°	999.9	1009.9	1041.9	1090.9	1104.9
37.5°	947.9	971.9	1012.9	1044.9	1056.9
40°	901.9	930.9	972.9	1014.9	1031.9
42.5°	856.9	891.9	934.9	971.9	993.9
45°	818.9	837.9	881.9	928.9	940.9
47.5°	779.9	781.9	838.9	886.9	901.9
50°	709.9	740.9	792.9	841.9	866.9
52.5°	666.9	695.9	750.9	791.9	814.9
55°	620.9	650.9	710.9	750.9	765.9
57.5°	562.0	592.0	654.9	706.9	725.9
60°	524.0	540.0	607.0	654.9	675.9
62.5°	466.0	497.0	556.0	601.0	619.0
65°	420.0	448.0	509.0	555.0	566.0
67.5°	361.0	397.0	459.0	497.0	497.0
70°	312.0	342.0	409.0	429.0	429.0
72.5°	266.0	299.0	356.0	362.0	356.0
75°	211.0	250.0	295.0	288.0	280.0
77.5°	164.0	205.0	227.0	215.0	203.0
80°	118.0	157.0	163.0	145.0	137.0
82.5°	78.0	109.0	101.0	83.0	79.0
85°	43.0	57.0	43.0	27.0	20.0
87.5°	16.0	16.0	5.0	4.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)