

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: P798362

Luminaire Tested: 22CBRK-SL3-UNV-MID-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2306-063-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CBRK-SL3-UNV-MID-3500K
Description: CBRK-S Center Basket Retrofit Kit
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

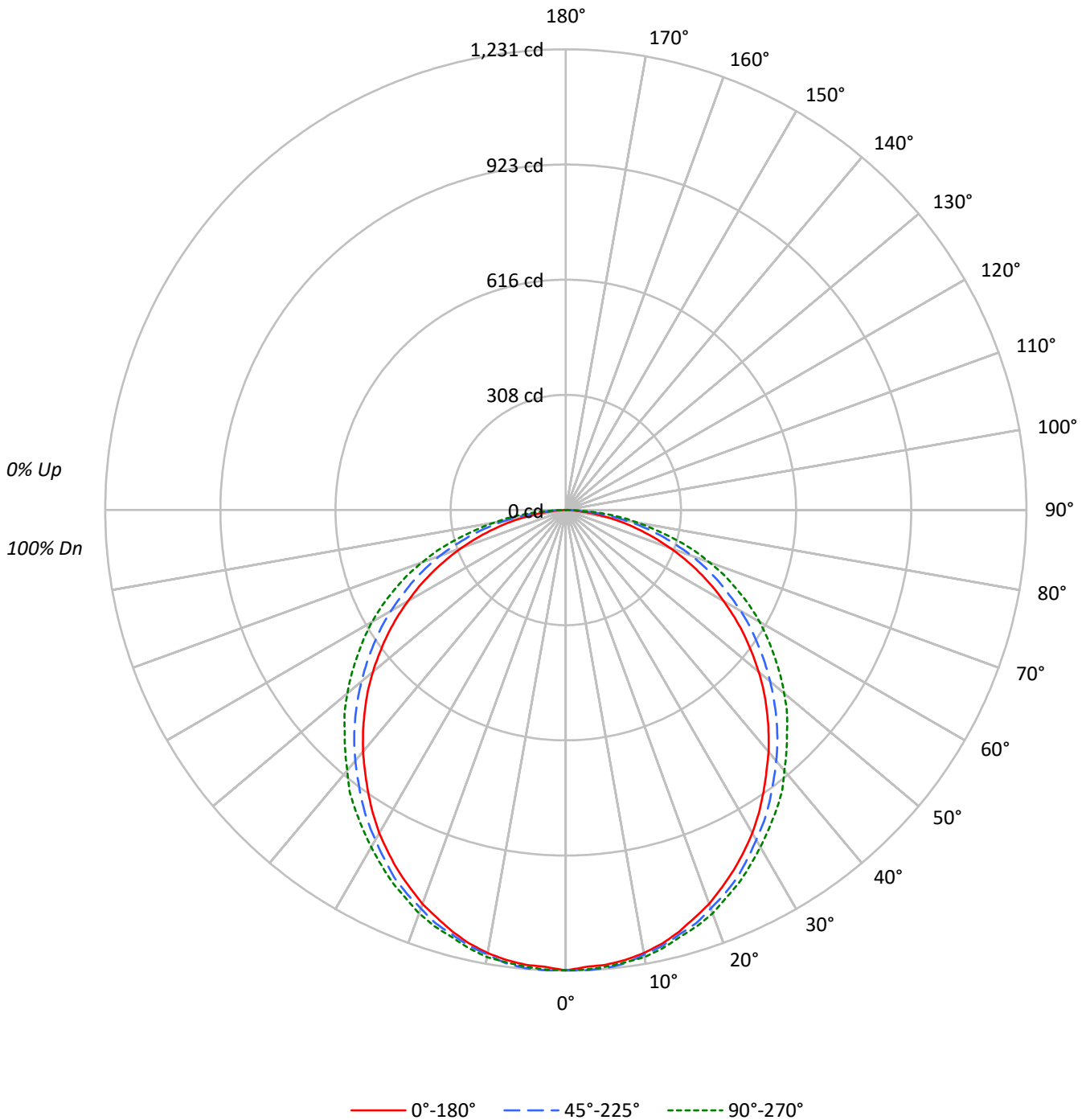
Lumens per Lamp: N/A
Luminaire Lumens: 3513.1 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.6
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			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	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	85	85	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	71	71	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	60	60	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	51	51	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	45	45	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	39	39	39	37
7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	46	39	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	31	31	31	29
9	56	42	34	29	55	42	34	29	41	33	28	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	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3310	3310	3310
5°	3295	3320	3309
10°	3284	3295	3314
15°	3251	3270	3290
20°	3207	3244	3284
25°	3153	3218	3260
30°	3098	3163	3231
35°	3025	3120	3219
40°	2961	3074	3193
45°	2892	3033	3181
50°	2817	2985	3190
55°	2730	2942	3190
60°	2621	2906	3218
65°	2502	2865	3222
70°	2337	2817	3210
75°	2100	2714	3140
80°	1767	2541	3037
85°	1173	2285	2902

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 67.5°
 Luminance: 3235 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	3.3
10°-20°	331.7	9.4
20°-30°	498.0	14.2
30°-40°	594.6	16.9
40°-50°	615.2	17.5
50°-60°	562.6	16.0
60°-70°	444.1	12.6
70°-80°	271.5	7.7
80°-90°	79.1	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°	946.1	26.9
0°-40°	1540.7	43.9
0°-60°	2718.4	77.4
0°-90°	3513.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3513.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1220	1224	1229	1231	1225	116
15°	1167	1170	1174	1183	1181	329
25°	1062	1068	1084	1093	1098	489
35°	921	932	950	971	980	576
45°	760	769	797	825	836	586
55°	582	592	627	666	680	520
65°	393	406	450	489	506	389
75°	202	222	261	293	302	215
85°	38	53	74	87	94	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1229.9	1229.9	1229.9	1229.9	1229.9
2.5°	1221.9	1227.9	1230.9	1230.9	1228.9
5°	1219.9	1223.9	1228.9	1230.9	1224.9
7.5°	1212.9	1214.9	1221.9	1220.9	1218.9
10°	1201.9	1205.9	1205.9	1212.9	1212.9
12.5°	1186.9	1186.9	1192.9	1199.9	1198.9
15°	1166.9	1169.9	1173.9	1182.9	1180.9
17.5°	1142.9	1150.9	1157.9	1163.9	1165.9
20°	1119.9	1122.9	1132.9	1143.9	1146.9
22.5°	1090.9	1099.9	1109.9	1119.9	1120.9
25°	1061.9	1067.9	1083.9	1092.9	1097.9
27.5°	1029.9	1035.9	1050.9	1065.9	1068.9
30°	996.9	1004.9	1017.9	1034.9	1039.9
32.5°	959.9	966.9	985.9	1003.9	1009.9
35°	920.9	931.9	949.9	970.9	979.9
37.5°	881.0	890.9	911.9	935.9	948.9
40°	843.0	851.0	875.0	900.9	908.9
42.5°	802.0	811.0	837.0	863.0	873.0
45°	760.0	769.0	797.0	825.0	836.0
47.5°	718.0	724.0	755.0	787.0	802.0
50°	673.0	681.0	713.0	747.0	762.0
52.5°	627.0	638.0	670.0	708.0	722.0
55°	582.0	592.0	627.0	666.0	680.0
57.5°	535.0	547.0	585.0	623.0	640.0
60°	487.0	501.0	540.0	579.0	598.0
62.5°	441.0	453.0	493.0	536.0	554.0
65°	393.0	406.0	450.0	489.0	506.0
67.5°	345.0	363.0	405.0	443.0	460.0
70°	297.0	312.0	358.0	393.0	408.0
72.5°	249.0	269.0	309.0	346.0	359.0
75°	202.0	222.0	261.0	293.0	302.0
77.5°	159.0	178.0	214.0	240.0	247.0
80°	114.0	132.0	164.0	187.0	196.0
82.5°	74.0	93.0	116.0	137.0	149.0
85°	38.0	53.0	74.0	87.0	94.0
87.5°	13.0	20.0	31.0	33.0	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)