

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: P798363

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798363
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-4000K
Description: CBRK-S Center Basket Retrofit Kit
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

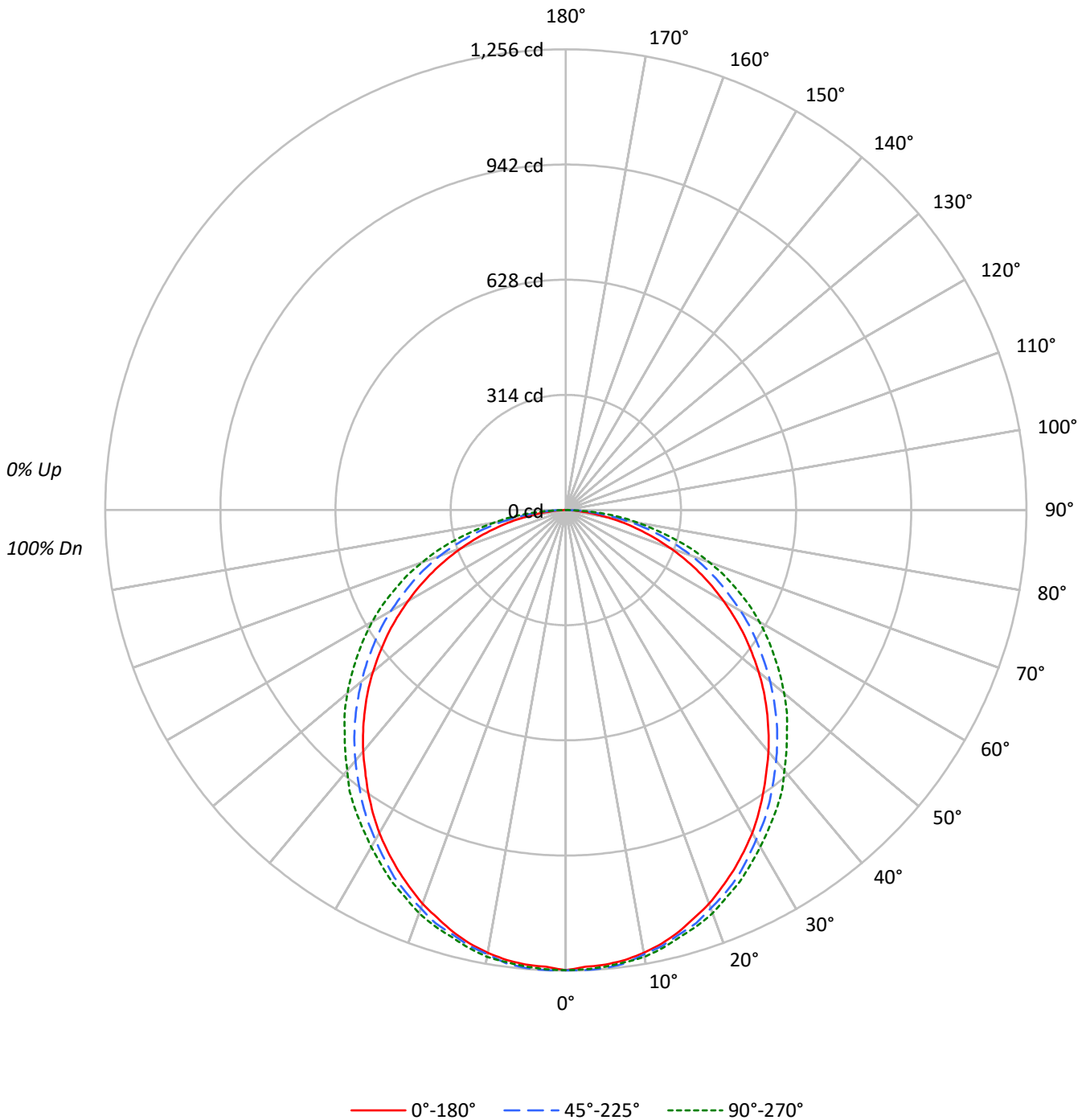
Lumens per Lamp: N/A
Luminaire Lumens: 3583.3 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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				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°	3376	3376	3376
5°	3361	3386	3375
10°	3350	3361	3381
15°	3316	3336	3356
20°	3271	3309	3350
25°	3216	3283	3325
30°	3160	3226	3296
35°	3086	3183	3283
40°	3020	3135	3257
45°	2950	3094	3245
50°	2874	3044	3254
55°	2785	3000	3254
60°	2673	2964	3282
65°	2552	2923	3286
70°	2383	2873	3274
75°	2142	2768	3202
80°	1802	2593	3098
85°	1198	2331	2961

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 67.5°
 Luminance: 3299 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	3.3
10°-20°	338.3	9.4
20°-30°	507.9	14.2
30°-40°	606.5	16.9
40°-50°	627.4	17.5
50°-60°	573.8	16.0
60°-70°	452.9	12.6
70°-80°	276.9	7.7
80°-90°	80.7	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°	965.1	26.9
0°-40°	1571.5	43.9
0°-60°	2772.7	77.4
0°-90°	3583.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3583.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1254	1254	1254	1254	1254	
5°	1244	1248	1254	1256	1249	118
15°	1190	1193	1197	1207	1205	335
25°	1083	1089	1106	1115	1120	499
35°	939	951	969	990	1000	588
45°	775	784	813	842	853	598
55°	594	604	640	679	694	530
65°	401	414	459	499	516	396
75°	206	226	266	299	308	219
85°	39	54	76	89	96	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1254.5	1254.5	1254.5	1254.5	1254.5
2.5°	1246.4	1252.5	1255.5	1255.5	1253.5
5°	1244.3	1248.4	1253.5	1255.5	1249.4
7.5°	1237.2	1239.2	1246.4	1245.3	1243.3
10°	1226.0	1230.1	1230.1	1237.2	1237.2
12.5°	1210.7	1210.7	1216.8	1223.9	1222.9
15°	1190.3	1193.3	1197.4	1206.6	1204.6
17.5°	1165.8	1174.0	1181.1	1187.2	1189.3
20°	1142.3	1145.4	1155.6	1166.8	1169.9
22.5°	1112.8	1121.9	1132.1	1142.3	1143.4
25°	1083.2	1089.3	1105.6	1114.8	1119.9
27.5°	1050.5	1056.7	1072.0	1087.3	1090.3
30°	1016.9	1025.0	1038.3	1055.6	1060.7
32.5°	979.1	986.3	1005.7	1024.0	1030.1
35°	939.4	950.6	968.9	990.4	999.5
37.5°	898.6	908.8	930.2	954.7	967.9
40°	859.8	868.0	892.4	919.0	927.1
42.5°	818.0	827.2	853.7	880.2	890.4
45°	775.2	784.3	812.9	841.5	852.7
47.5°	732.3	738.4	770.1	802.7	818.0
50°	686.4	694.6	727.2	761.9	777.2
52.5°	639.5	650.7	683.4	722.1	736.4
55°	593.6	603.8	639.5	679.3	693.6
57.5°	545.7	557.9	596.7	635.4	652.8
60°	496.7	511.0	550.8	590.5	609.9
62.5°	449.8	462.0	502.8	546.7	565.0
65°	400.8	414.1	459.0	498.8	516.1
67.5°	351.9	370.2	413.1	451.8	469.2
70°	302.9	318.2	365.1	400.8	416.1
72.5°	254.0	274.4	315.2	352.9	366.2
75°	206.0	226.4	266.2	298.8	308.0
77.5°	162.2	181.5	218.3	244.8	251.9
80°	116.3	134.6	167.3	190.7	199.9
82.5°	75.5	94.9	118.3	139.7	152.0
85°	38.8	54.1	75.5	88.7	95.9
87.5°	13.3	20.4	31.6	33.7	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)