

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: P798361

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2306-063-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CBRK-SL3-UNV-LOW-4000K
Description: CBRK-S Center Basket Retrofit Kit
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

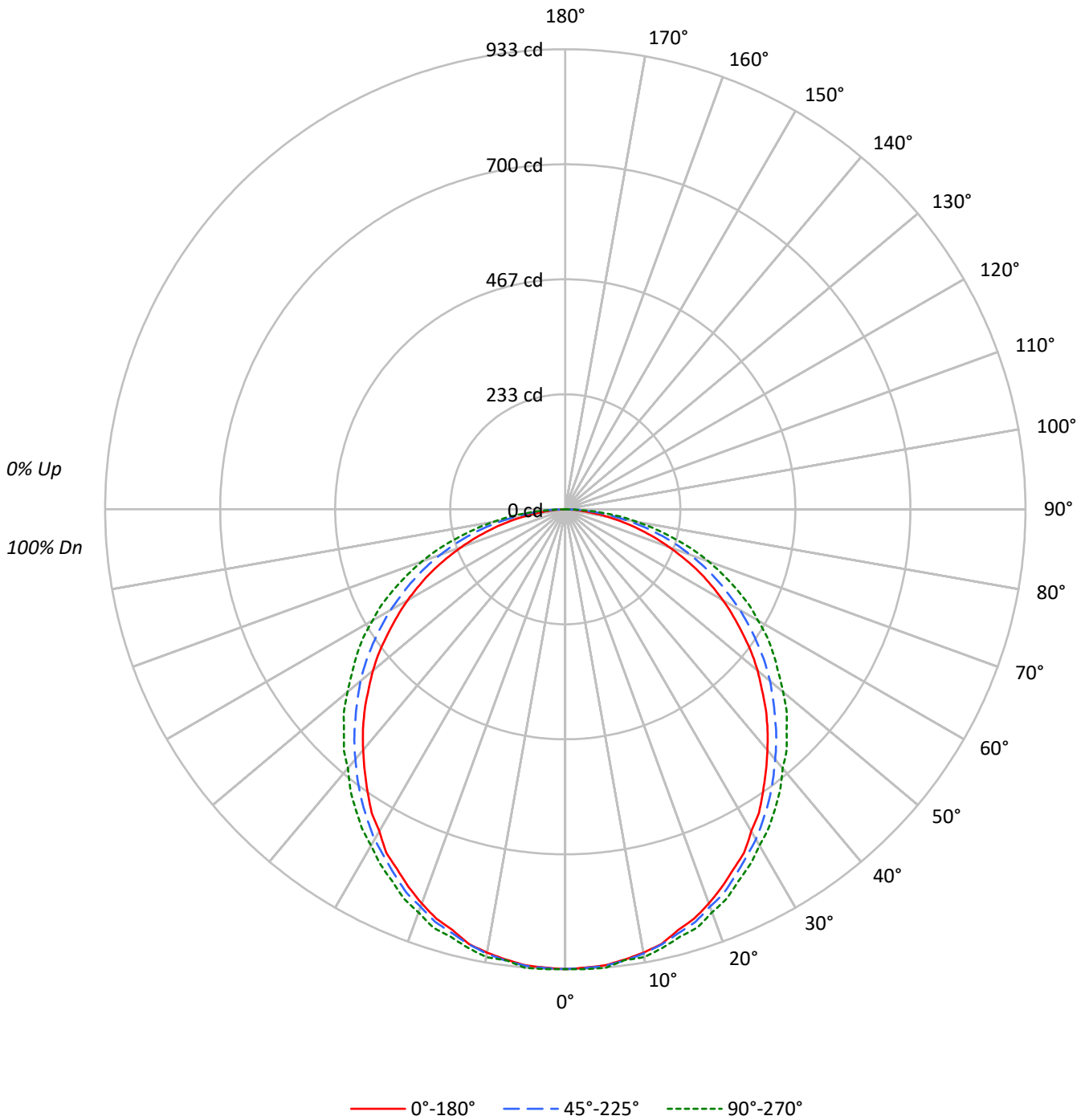
Lumens per Lamp: N/A
Luminaire Lumens: 2663.2 lumens
Efficiency: N/A
Efficacy: 152.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 17.5
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	94	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	52	45	39	50	44	39	39	39	39	37
7	64	51	42	36	63	50	42	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	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2509	2509	2509
5°	2508	2510	2521
10°	2495	2500	2520
15°	2461	2478	2501
20°	2436	2457	2492
25°	2393	2429	2469
30°	2343	2403	2447
35°	2296	2366	2436
40°	2240	2325	2408
45°	2189	2291	2415
50°	2131	2268	2413
55°	2058	2235	2422
60°	1988	2202	2427
65°	1903	2163	2436
70°	1766	2119	2432
75°	1601	2058	2376
80°	1344	1912	2307
85°	914	1763	2174

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 62.5°
 Luminance: 2449 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	3.3
10°-20°	251.7	9.4
20°-30°	377.7	14.2
30°-40°	450.8	16.9
40°-50°	466.1	17.5
50°-60°	426.5	16.0
60°-70°	336.6	12.6
70°-80°	205.4	7.7
80°-90°	60.2	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°	717.6	26.9
0°-40°	1168.4	43.9
0°-60°	2061.0	77.4
0°-90°	2663.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2663.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	928	928	929	930	933	88
15°	883	888	890	896	898	250
25°	806	811	818	830	831	372
35°	699	705	720	738	742	437
45°	575	584	602	626	634	443
55°	439	449	476	504	516	393
65°	299	310	340	374	382	295
75°	154	168	198	220	228	163
85°	30	41	57	67	70	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.4	932.4	932.4	932.4	932.4
2.5°	930.3	930.3	931.3	932.4	933.4
5°	928.3	928.3	929.3	930.3	933.4
7.5°	921.1	920.1	923.2	925.2	922.2
10°	913.0	912.0	915.0	918.1	922.2
12.5°	902.8	902.8	903.8	908.9	910.9
15°	883.4	888.5	889.5	895.6	897.7
17.5°	870.1	873.2	877.3	882.4	889.5
20°	850.8	852.8	857.9	868.1	870.1
22.5°	829.3	832.4	841.6	848.7	854.8
25°	805.9	811.0	818.1	830.4	831.4
27.5°	785.5	787.5	794.7	808.9	812.0
30°	753.9	760.0	773.2	785.5	787.5
32.5°	730.4	733.4	746.7	760.0	767.1
35°	698.8	704.9	720.2	738.5	741.6
37.5°	668.2	675.3	691.6	712.0	716.1
40°	637.6	645.7	662.0	683.5	685.5
42.5°	607.0	615.1	633.5	652.9	664.1
45°	575.3	583.5	601.9	626.3	634.5
47.5°	540.7	549.8	571.3	595.7	609.0
50°	509.0	517.2	541.7	568.2	576.4
52.5°	475.4	484.5	510.0	535.6	544.7
55°	438.6	448.8	476.4	503.9	516.2
57.5°	404.0	414.2	442.7	474.3	486.6
60°	369.3	379.5	409.1	439.7	450.9
62.5°	333.6	344.8	373.4	407.0	420.3
65°	298.9	310.1	339.7	374.4	382.5
67.5°	261.1	273.4	305.0	335.6	345.8
70°	224.4	238.7	269.3	298.9	309.1
72.5°	188.7	203.0	234.6	261.1	271.3
75°	154.0	168.3	197.9	220.3	228.5
77.5°	119.4	133.6	161.2	181.6	188.7
80°	86.7	100.0	123.4	141.8	148.9
82.5°	55.1	69.4	89.8	105.1	112.2
85°	29.6	40.8	57.1	67.3	70.4
87.5°	10.2	15.3	22.4	25.5	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)