

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: P798348

Luminaire Tested: 24CBRK-SL3-UNV-MID-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2212-856-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CBRK-SL3-UNV-MID-4000K
Description: CBRK-S Center Basket Retrofit Kit
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

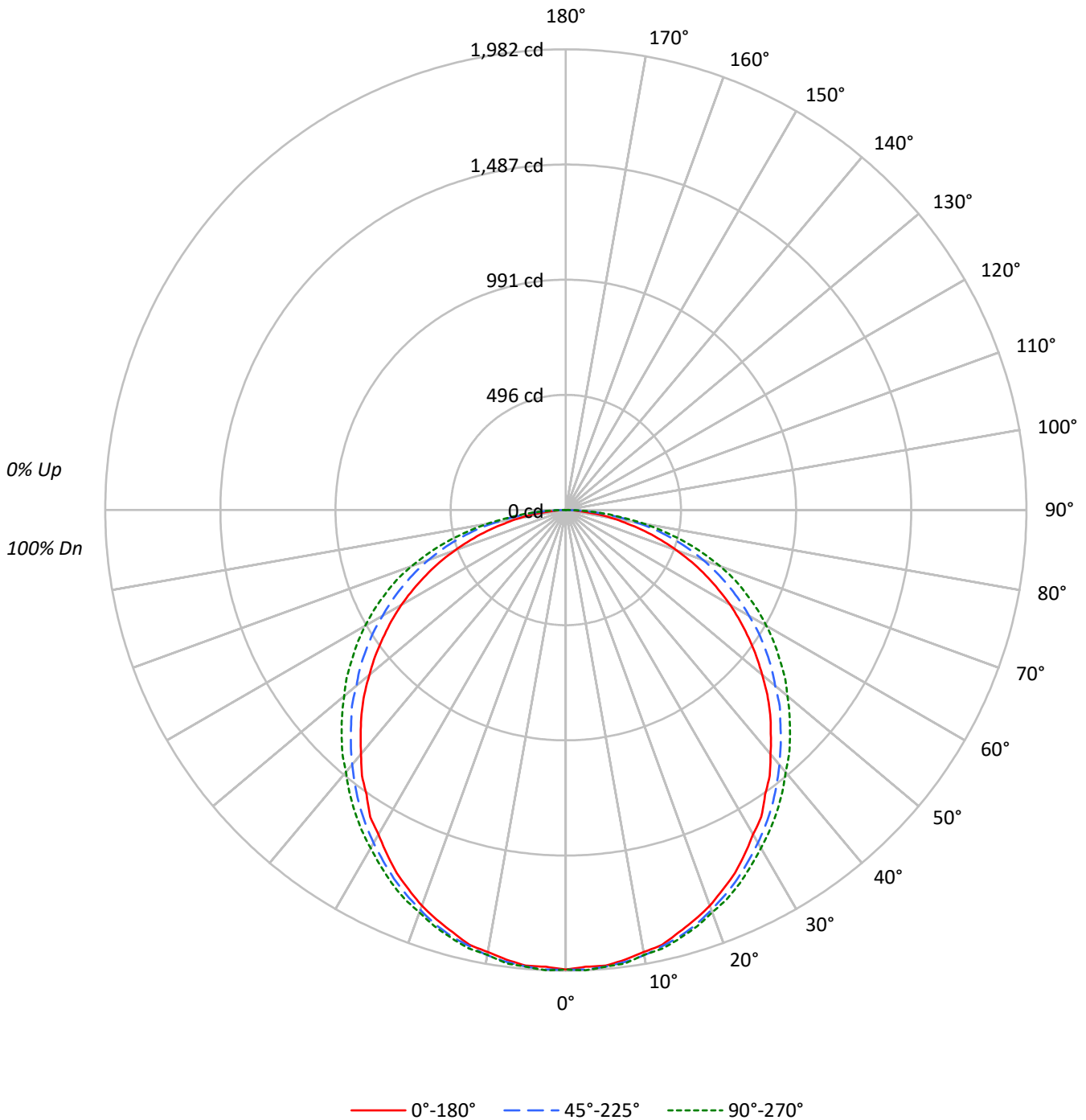
Lumens per Lamp: N/A
Luminaire Lumens: 5830.0 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	70	70	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	59	59	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	51	51	51	48
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	44	44	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	38	38	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	34	34	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	30	30	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	27	27	27	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	25	25	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2660	2660	2660
5°	2658	2663	2663
10°	2638	2657	2654
15°	2620	2645	2655
20°	2594	2622	2637
25°	2558	2598	2631
30°	2504	2570	2610
35°	2455	2544	2602
40°	2408	2511	2585
45°	2367	2485	2595
50°	2309	2462	2606
55°	2254	2461	2637
60°	2199	2451	2683
65°	2114	2461	2732
70°	1995	2478	2777
75°	1825	2469	2766
80°	1596	2386	2665
85°	1127	2161	2455

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 70°
 Luminance: 2777 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.4	3.2
10°-20°	535.3	9.2
20°-30°	805.9	13.8
30°-40°	967.1	16.6
40°-50°	1007.9	17.3
50°-60°	935.9	16.1
60°-70°	758.9	13.0
70°-80°	483.9	8.3
80°-90°	147.7	2.5
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°	1528.7	26.2
0°-40°	2495.8	42.8
0°-60°	4439.6	76.1
0°-90°	5830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5830.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1977	1977	1977	1977	1977	
5°	1968	1971	1972	1978	1972	186
15°	1881	1890	1899	1908	1906	531
25°	1723	1733	1750	1770	1772	792
35°	1495	1514	1549	1578	1584	938
45°	1244	1260	1306	1351	1364	958
55°	961	991	1049	1102	1124	860
65°	664	696	773	838	858	657
75°	351	399	475	526	532	372
85°	73	114	140	153	159	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1976.9	1976.9	1976.9	1976.9	1976.9
2.5°	1966.9	1975.9	1978.9	1981.9	1981.9
5°	1967.9	1970.9	1971.9	1977.9	1971.9
7.5°	1950.9	1962.9	1960.9	1967.9	1966.9
10°	1930.9	1939.9	1944.9	1952.9	1942.9
12.5°	1915.9	1916.9	1921.9	1932.9	1931.9
15°	1880.9	1889.9	1898.9	1907.9	1905.9
17.5°	1847.9	1861.9	1868.9	1878.9	1877.9
20°	1811.9	1820.9	1830.9	1844.9	1841.9
22.5°	1766.9	1777.9	1791.9	1810.9	1811.9
25°	1722.9	1732.9	1749.9	1769.9	1771.9
27.5°	1667.9	1683.9	1701.9	1724.9	1725.9
30°	1611.9	1627.9	1653.9	1678.9	1679.9
32.5°	1565.9	1576.9	1602.9	1631.9	1633.9
35°	1494.9	1513.9	1548.9	1577.9	1583.9
37.5°	1440.9	1453.9	1489.9	1522.9	1529.9
40°	1371.0	1391.9	1429.9	1468.9	1471.9
42.5°	1306.0	1328.0	1369.0	1408.9	1422.9
45°	1244.0	1260.0	1306.0	1351.0	1364.0
47.5°	1176.0	1198.0	1248.0	1289.0	1306.0
50°	1103.0	1126.0	1176.0	1231.0	1245.0
52.5°	1034.0	1058.0	1116.0	1169.0	1189.0
55°	961.0	991.0	1049.0	1102.0	1124.0
57.5°	890.0	916.0	984.0	1043.0	1063.0
60°	817.0	843.0	911.0	978.0	997.0
62.5°	740.0	773.0	843.0	910.0	930.0
65°	664.0	696.0	773.0	838.0	858.0
67.5°	588.0	621.0	702.0	765.0	789.0
70°	507.0	549.0	630.0	688.0	706.0
72.5°	430.0	475.0	554.0	609.0	620.0
75°	351.0	399.0	475.0	526.0	532.0
77.5°	273.0	327.0	397.0	431.0	438.0
80°	206.0	255.0	308.0	334.0	344.0
82.5°	137.0	183.0	221.0	239.0	242.0
85°	73.0	114.0	140.0	153.0	159.0
87.5°	28.0	47.0	64.0	70.0	71.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)