

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1585818

Luminaire Tested: 14CZSP-SB-60VHE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-60VHE-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6200 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

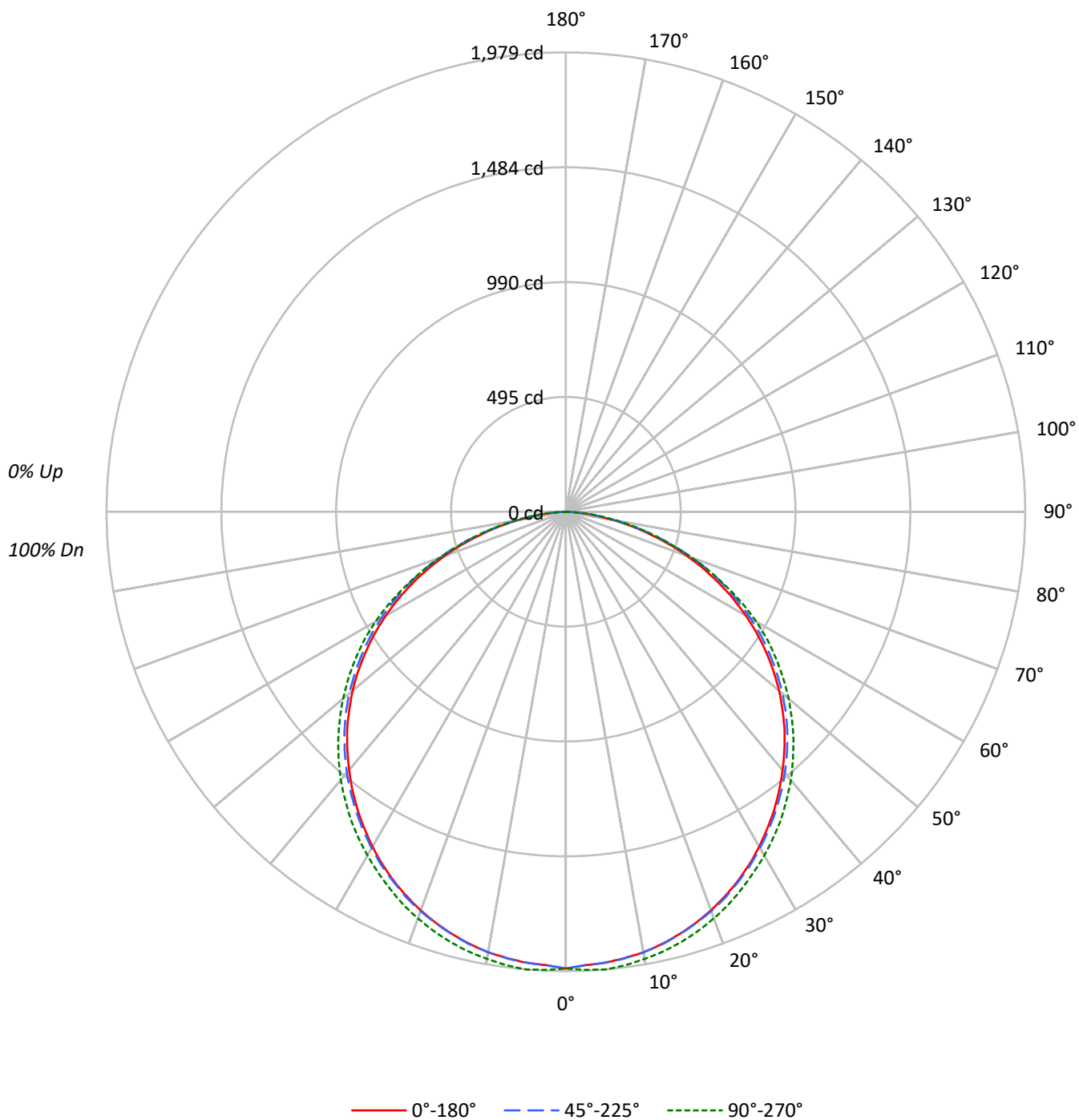
Lumens per Lamp: N/A
Luminaire Lumens: 5806.0 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 43.9
Input Voltage (V): NR
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	99	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6629	6629	6629
5°	6597	6595	6694
10°	6595	6592	6692
15°	6575	6581	6696
20°	6555	6567	6685
25°	6522	6538	6664
30°	6483	6510	6652
35°	6440	6480	6649
40°	6390	6456	6636
45°	6351	6431	6609
50°	6287	6385	6567
55°	6189	6304	6503
60°	6039	6195	6387
65°	5812	6032	6096
70°	5466	5719	5685
75°	4908	5116	5150
80°	4054	4261	4484
85°	2714	3163	3333

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6609 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	3.2
10°-20°	536.0	9.2
20°-30°	816.2	14.1
30°-40°	993.4	17.1
40°-50°	1047.2	18.0
50°-60°	964.5	16.6
60°-70°	744.9	12.8
70°-80°	416.9	7.2
80°-90°	100.5	1.7
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°	1538.7	26.5
0°-40°	2532.0	43.6
0°-60°	4543.8	78.3
0°-90°	5806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1967	1967	1967	1967	1967	
5°	1950	1978	1950	1952	1979	185
15°	1885	1910	1886	1897	1919	532
25°	1754	1779	1758	1770	1792	808
35°	1566	1589	1575	1595	1616	979
45°	1333	1351	1350	1370	1387	1027
55°	1054	1071	1073	1095	1107	940
65°	729	750	757	764	765	720
75°	377	400	393	392	396	400
85°	70	77	82	92	86	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1967.4	1967.4	1967.4	1967.4	1967.4
2.5°	1955.0	1983.4	1955.0	1959.4	1975.4
5°	1950.5	1978.1	1949.7	1952.3	1979.0
7.5°	1939.0	1967.4	1940.8	1944.3	1970.1
10°	1927.4	1953.2	1926.5	1931.0	1955.9
12.5°	1907.9	1934.5	1909.7	1915.0	1939.9
15°	1884.8	1910.5	1886.5	1897.2	1919.4
17.5°	1858.1	1883.0	1859.9	1872.3	1893.6
20°	1827.9	1851.9	1831.4	1840.3	1864.3
22.5°	1792.3	1817.2	1797.6	1805.6	1831.4
25°	1754.1	1779.0	1758.5	1770.1	1792.3
27.5°	1712.3	1736.3	1718.5	1732.7	1752.3
30°	1666.1	1689.2	1673.2	1690.1	1709.6
32.5°	1616.3	1641.2	1625.2	1644.7	1664.3
35°	1565.6	1588.7	1575.4	1594.9	1616.3
37.5°	1510.5	1532.7	1522.9	1543.4	1562.9
40°	1452.7	1477.6	1467.8	1489.1	1508.7
42.5°	1393.1	1417.1	1409.1	1431.4	1448.2
45°	1332.7	1351.3	1349.6	1370.0	1386.9
47.5°	1266.0	1289.1	1285.5	1306.0	1321.1
50°	1199.3	1218.0	1218.0	1237.5	1252.7
52.5°	1127.3	1146.0	1146.0	1169.1	1181.5
55°	1053.5	1071.3	1073.1	1095.3	1106.9
57.5°	975.3	993.9	997.5	1019.7	1030.4
60°	896.1	913.9	919.3	941.5	947.7
62.5°	813.5	834.8	837.5	855.3	858.8
65°	729.0	750.3	756.6	763.7	764.6
67.5°	642.8	665.0	671.2	671.2	671.2
70°	554.8	575.2	580.5	577.0	577.0
72.5°	465.9	488.1	485.4	481.9	483.6
75°	377.0	400.1	393.0	392.1	395.6
77.5°	291.6	313.8	302.3	309.4	310.3
80°	208.9	225.8	219.6	230.3	231.1
82.5°	134.2	144.9	146.7	155.6	152.9
85°	70.2	77.3	81.8	91.6	86.2
87.5°	22.2	29.3	26.7	31.1	24.0
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.61	20.26	18.97	20.58	20.89	18.82	20.48	19.19	20.79	21.11
	3H	20.43	21.93	20.80	22.25	22.61	20.62	22.12	21.00	22.45	22.81
	4H	21.07	22.49	21.47	22.83	23.21	21.26	22.67	21.66	23.02	23.40
	6H	21.50	22.81	21.91	23.18	23.57	21.71	23.02	22.12	23.39	23.78
	8H	21.61	22.86	22.04	23.25	23.65	21.85	23.10	22.27	23.49	23.88
	12H	21.66	22.86	22.09	23.25	23.67	21.92	23.12	22.35	23.50	23.93
4H	2H	19.29	20.70	19.68	21.05	21.42	19.46	20.87	19.85	21.21	21.59
	3H	21.33	22.51	21.74	22.91	23.31	21.47	22.65	21.88	23.05	23.45
	4H	22.11	23.18	22.54	23.59	24.03	22.23	23.30	22.66	23.71	24.15
	6H	22.66	23.59	23.11	24.03	24.49	22.80	23.74	23.25	24.18	24.63
	8H	22.80	23.68	23.26	24.12	24.59	22.98	23.85	23.44	24.30	24.76
	12H	22.89	23.67	23.37	24.15	24.62	23.09	23.88	23.57	24.35	24.82
8H	4H	22.41	23.29	22.87	23.73	24.20	22.52	23.40	22.98	23.84	24.31
	6H	23.07	23.80	23.57	24.29	24.76	23.20	23.93	23.70	24.42	24.89
	8H	23.28	23.93	23.79	24.44	24.92	23.44	24.10	23.95	24.60	25.09
	12H	23.41	23.99	23.92	24.48	25.04	23.62	24.20	24.13	24.69	25.25
12H	4H	22.44	23.23	22.92	23.71	24.18	22.55	23.34	23.03	23.81	24.28
	6H	23.12	23.77	23.63	24.28	24.76	23.25	23.90	23.75	24.41	24.89
	8H	23.37	23.95	23.88	24.44	25.00	23.54	24.11	24.04	24.60	25.16