

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: P1585820

Luminaire Tested: 14CZSP-SB-60VHE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585820
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-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 6200 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

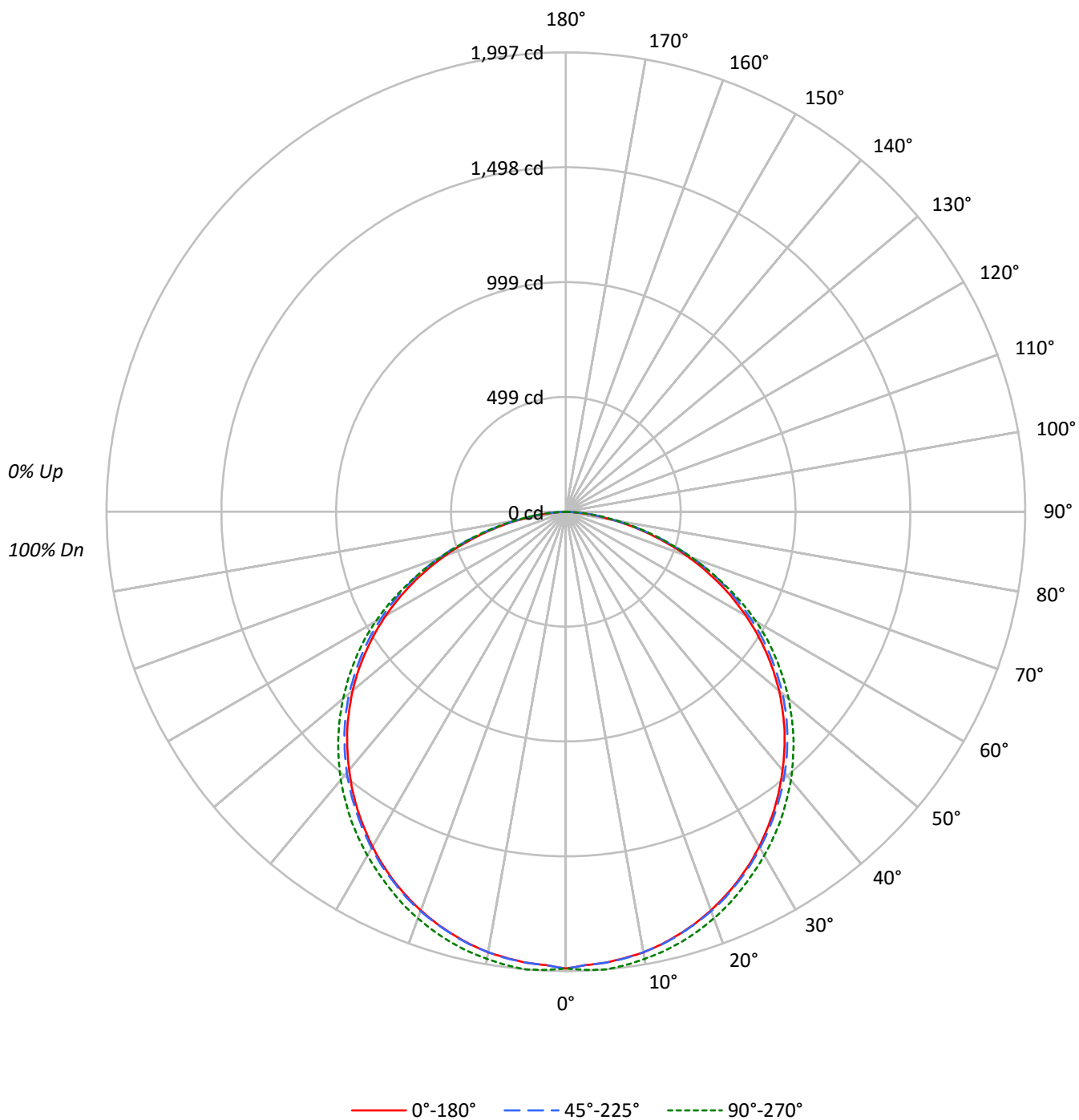
Lumens per Lamp: N/A
Luminaire Lumens: 5859.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	6690	6690	6690
5°	6658	6655	6755
10°	6655	6652	6753
15°	6635	6641	6757
20°	6614	6627	6746
25°	6581	6598	6725
30°	6542	6569	6712
35°	6499	6540	6709
40°	6448	6515	6697
45°	6408	6490	6670
50°	6345	6443	6627
55°	6245	6362	6562
60°	6094	6252	6445
65°	5866	6087	6152
70°	5515	5771	5737
75°	4952	5162	5197
80°	4090	4300	4527
85°	2741	3190	3364

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6670 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	3.2
10°-20°	540.9	9.2
20°-30°	823.7	14.1
30°-40°	1002.4	17.1
40°-50°	1056.8	18.0
50°-60°	973.3	16.6
60°-70°	751.8	12.8
70°-80°	420.6	7.2
80°-90°	101.4	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°	1552.7	26.5
0°-40°	2555.1	43.6
0°-60°	4585.2	78.3
0°-90°	5859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1985	1985	1985	1985	1985	
5°	1968	1996	1968	1970	1997	187
15°	1902	1928	1904	1914	1937	537
25°	1770	1795	1775	1786	1809	816
35°	1580	1603	1590	1610	1631	988
45°	1345	1364	1362	1382	1400	1036
55°	1063	1081	1083	1105	1117	949
65°	736	757	764	771	772	727
75°	380	404	396	396	399	403
85°	71	78	82	92	87	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1985.4	1985.4	1985.4	1985.4	1985.4
2.5°	1972.8	2001.5	1972.8	1977.3	1993.5
5°	1968.4	1996.2	1967.5	1970.1	1997.1
7.5°	1956.7	1985.4	1958.5	1962.1	1988.1
10°	1945.0	1971.0	1944.1	1948.6	1973.7
12.5°	1925.3	1952.2	1927.1	1932.5	1957.6
15°	1902.0	1928.0	1903.8	1914.5	1937.0
17.5°	1875.1	1900.2	1876.8	1889.4	1910.9
20°	1844.5	1868.8	1848.1	1857.1	1881.3
22.5°	1808.7	1833.8	1814.0	1822.1	1848.1
25°	1770.1	1795.2	1774.6	1786.2	1808.7
27.5°	1727.9	1752.1	1734.2	1748.6	1768.3
30°	1681.3	1704.6	1688.4	1705.5	1725.2
32.5°	1631.0	1656.1	1640.0	1659.7	1679.5
35°	1579.9	1603.2	1589.8	1609.5	1631.0
37.5°	1524.3	1546.7	1536.8	1557.5	1577.2
40°	1465.9	1491.1	1481.2	1502.7	1522.5
42.5°	1405.8	1430.1	1422.0	1444.4	1461.5
45°	1344.8	1363.7	1361.9	1382.5	1399.6
47.5°	1277.5	1300.9	1297.3	1317.9	1333.2
50°	1210.3	1229.1	1229.1	1248.8	1264.1
52.5°	1137.6	1156.4	1156.4	1179.8	1192.3
55°	1063.1	1081.1	1082.9	1105.3	1117.0
57.5°	984.2	1003.0	1006.6	1029.0	1039.8
60°	904.3	922.3	927.7	950.1	956.4
62.5°	820.9	842.4	845.1	863.1	866.6
65°	735.7	757.2	763.5	770.7	771.6
67.5°	648.6	671.1	677.4	677.4	677.4
70°	559.8	580.5	585.8	582.3	582.3
72.5°	470.1	492.5	489.8	486.3	488.1
75°	380.4	403.7	396.5	395.6	399.2
77.5°	294.3	316.7	305.0	312.2	313.1
80°	210.8	227.9	221.6	232.4	233.3
82.5°	135.5	146.2	148.0	157.0	154.3
85°	70.9	78.1	82.5	92.4	87.0
87.5°	22.4	29.6	26.9	31.4	24.2
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	18.64	20.29	19.00	20.61	20.92	18.85	20.51	19.22	20.82	21.14
	3H	20.46	21.96	20.84	22.28	22.64	20.65	22.15	21.03	22.48	22.84
	4H	21.11	22.52	21.50	22.87	23.24	21.29	22.71	21.69	23.05	23.43
	6H	21.53	22.84	21.94	23.21	23.60	21.75	23.06	22.16	23.42	23.81
	8H	21.64	22.89	22.07	23.28	23.68	21.88	23.13	22.30	23.52	23.92
	12H	21.70	22.90	22.13	23.28	23.71	21.95	23.15	22.38	23.53	23.96
4H	2H	19.32	20.73	19.72	21.08	21.45	19.49	20.90	19.88	21.25	21.62
	3H	21.36	22.54	21.77	22.94	23.34	21.50	22.69	21.91	23.08	23.48
	4H	22.14	23.21	22.57	23.62	24.06	22.26	23.33	22.69	23.74	24.18
	6H	22.69	23.63	23.14	24.07	24.52	22.83	23.77	23.29	24.21	24.67
	8H	22.83	23.71	23.29	24.15	24.62	23.01	23.89	23.47	24.33	24.79
	12H	22.92	23.71	23.40	24.18	24.65	23.12	23.91	23.60	24.39	24.85
8H	4H	22.45	23.32	22.91	23.76	24.23	22.55	23.43	23.01	23.87	24.34
	6H	23.10	23.83	23.60	24.32	24.80	23.24	23.96	23.73	24.45	24.93
	8H	23.31	23.96	23.82	24.47	24.95	23.47	24.13	23.98	24.63	25.12
	12H	23.45	24.02	23.95	24.51	25.07	23.65	24.23	24.16	24.72	25.28
12H	4H	22.48	23.27	22.96	23.74	24.21	22.58	23.37	23.06	23.85	24.31
	6H	23.15	23.81	23.66	24.31	24.80	23.28	23.93	23.78	24.44	24.92
	8H	23.41	23.98	23.91	24.47	25.03	23.57	24.14	24.07	24.63	25.19