

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: P1585830

Luminaire Tested: 14CZSP-SB-60VHE-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585830
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-L950-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 6200 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

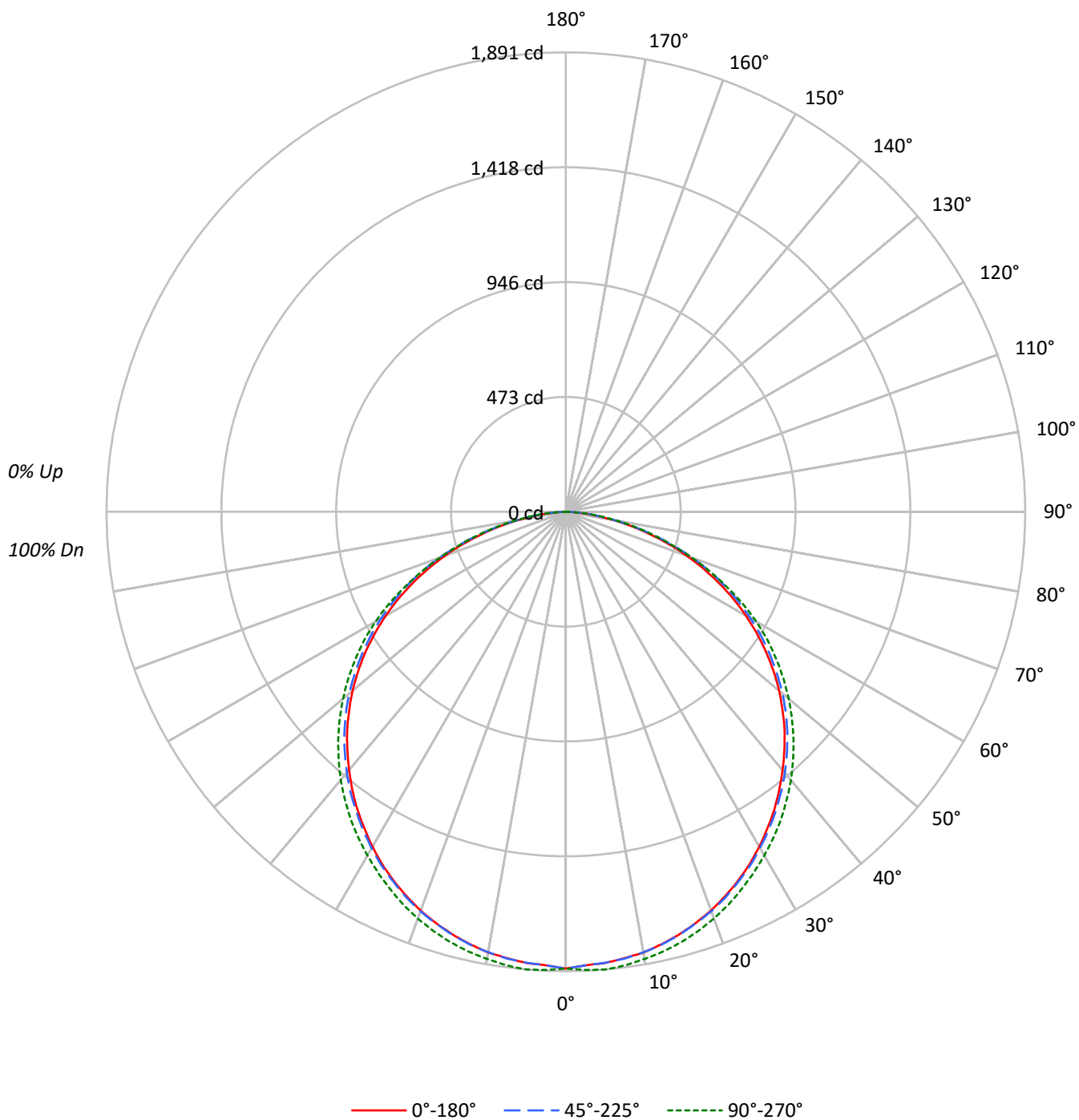
Lumens per Lamp: N/A
Luminaire Lumens: 5549.0 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	6336	6336	6336
5°	6306	6303	6398
10°	6303	6300	6396
15°	6284	6290	6400
20°	6264	6277	6389
25°	6233	6249	6369
30°	6195	6222	6357
35°	6155	6193	6354
40°	6107	6170	6342
45°	6070	6146	6316
50°	6009	6102	6276
55°	5915	6025	6215
60°	5772	5921	6104
65°	5555	5765	5826
70°	5224	5466	5432
75°	4691	4890	4923
80°	3875	4073	4286
85°	2594	3023	3186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6316 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.2	3.2
10°-20°	512.3	9.2
20°-30°	780.1	14.1
30°-40°	949.4	17.1
40°-50°	1000.9	18.0
50°-60°	921.8	16.6
60°-70°	712.0	12.8
70°-80°	398.4	7.2
80°-90°	96.0	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°	1470.6	26.5
0°-40°	2419.9	43.6
0°-60°	4342.6	78.3
0°-90°	5549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1880	1880	1880	1880	1880	
5°	1864	1890	1863	1866	1891	177
15°	1801	1826	1803	1813	1834	509
25°	1676	1700	1681	1692	1713	773
35°	1496	1518	1506	1524	1545	936
45°	1274	1292	1290	1309	1326	981
55°	1007	1024	1026	1047	1058	899
65°	697	717	723	730	731	688
75°	360	382	376	375	378	382
85°	67	74	78	88	82	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1880.4	1880.4	1880.4	1880.4	1880.4
2.5°	1868.5	1895.6	1868.5	1872.7	1888.0
5°	1864.2	1890.5	1863.4	1865.9	1891.4
7.5°	1853.2	1880.4	1854.9	1858.3	1882.9
10°	1842.1	1866.8	1841.3	1845.5	1869.3
12.5°	1823.4	1848.9	1825.1	1830.2	1854.0
15°	1801.3	1826.0	1803.0	1813.2	1834.5
17.5°	1775.8	1799.6	1777.5	1789.4	1809.8
20°	1747.0	1769.9	1750.4	1758.8	1781.8
22.5°	1713.0	1736.8	1718.1	1725.7	1750.4
25°	1676.4	1700.2	1680.7	1691.7	1713.0
27.5°	1636.5	1659.4	1642.4	1656.0	1674.7
30°	1592.3	1614.4	1599.1	1615.3	1633.9
32.5°	1544.7	1568.5	1553.2	1571.9	1590.6
35°	1496.3	1518.4	1505.6	1524.3	1544.7
37.5°	1443.6	1464.9	1455.5	1475.1	1493.7
40°	1388.4	1412.2	1402.8	1423.2	1441.9
42.5°	1331.5	1354.4	1346.8	1368.0	1384.1
45°	1273.7	1291.5	1289.8	1309.4	1325.5
47.5°	1210.0	1232.0	1228.6	1248.2	1262.6
50°	1146.2	1164.1	1164.1	1182.8	1197.2
52.5°	1077.4	1095.2	1095.2	1117.3	1129.2
55°	1006.9	1023.9	1025.6	1046.8	1057.9
57.5°	932.1	949.9	953.3	974.6	984.8
60°	856.5	873.5	878.6	899.8	905.8
62.5°	777.5	797.9	800.4	817.4	820.8
65°	696.7	717.1	723.1	729.9	730.7
67.5°	614.3	635.6	641.5	641.5	641.5
70°	530.2	549.7	554.8	551.4	551.4
72.5°	445.2	466.5	463.9	460.5	462.2
75°	360.3	382.4	375.6	374.7	378.1
77.5°	278.7	299.9	288.9	295.7	296.5
80°	199.7	215.8	209.9	220.1	220.9
82.5°	128.3	138.5	140.2	148.7	146.1
85°	67.1	73.9	78.2	87.5	82.4
87.5°	21.2	28.0	25.5	29.7	22.9
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	18.45	20.10	18.81	20.42	20.73	18.67	20.32	19.03	20.64	20.95
	3H	20.27	21.77	20.65	22.09	22.45	20.47	21.96	20.84	22.29	22.65
	4H	20.92	22.33	21.31	22.68	23.05	21.10	22.52	21.50	22.86	23.24
	6H	21.34	22.65	21.76	23.02	23.41	21.56	22.87	21.97	23.23	23.62
	8H	21.45	22.71	21.88	23.09	23.49	21.69	22.94	22.11	23.33	23.73
	12H	21.51	22.71	21.94	23.09	23.52	21.76	22.96	22.19	23.34	23.77
4H	2H	19.13	20.54	19.53	20.89	21.26	19.30	20.71	19.70	21.06	21.43
	3H	21.17	22.35	21.58	22.75	23.15	21.31	22.50	21.72	22.89	23.29
	4H	21.95	23.02	22.38	23.43	23.87	22.07	23.14	22.50	23.56	23.99
	6H	22.50	23.44	22.95	23.88	24.33	22.64	23.58	23.10	24.02	24.48
	8H	22.65	23.52	23.10	23.96	24.43	22.82	23.70	23.28	24.14	24.60
	12H	22.73	23.52	23.21	23.99	24.46	22.93	23.72	23.41	24.20	24.66
8H	4H	22.26	23.13	22.72	23.58	24.04	22.36	23.24	22.82	23.68	24.15
	6H	22.92	23.65	23.41	24.13	24.61	23.05	23.78	23.54	24.26	24.74
	8H	23.12	23.78	23.63	24.28	24.77	23.29	23.94	23.79	24.44	24.93
	12H	23.26	23.83	23.76	24.32	24.88	23.46	24.04	23.97	24.53	25.09
12H	4H	22.29	23.08	22.77	23.55	24.02	22.39	23.18	22.87	23.66	24.12
	6H	22.96	23.62	23.47	24.12	24.61	23.09	23.74	23.60	24.25	24.73
	8H	23.22	23.80	23.72	24.29	24.84	23.38	23.96	23.88	24.45	25.01