

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: P1585824

Luminaire Tested: 14CZSP-SB-60VHE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585824
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-L935-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 6200 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

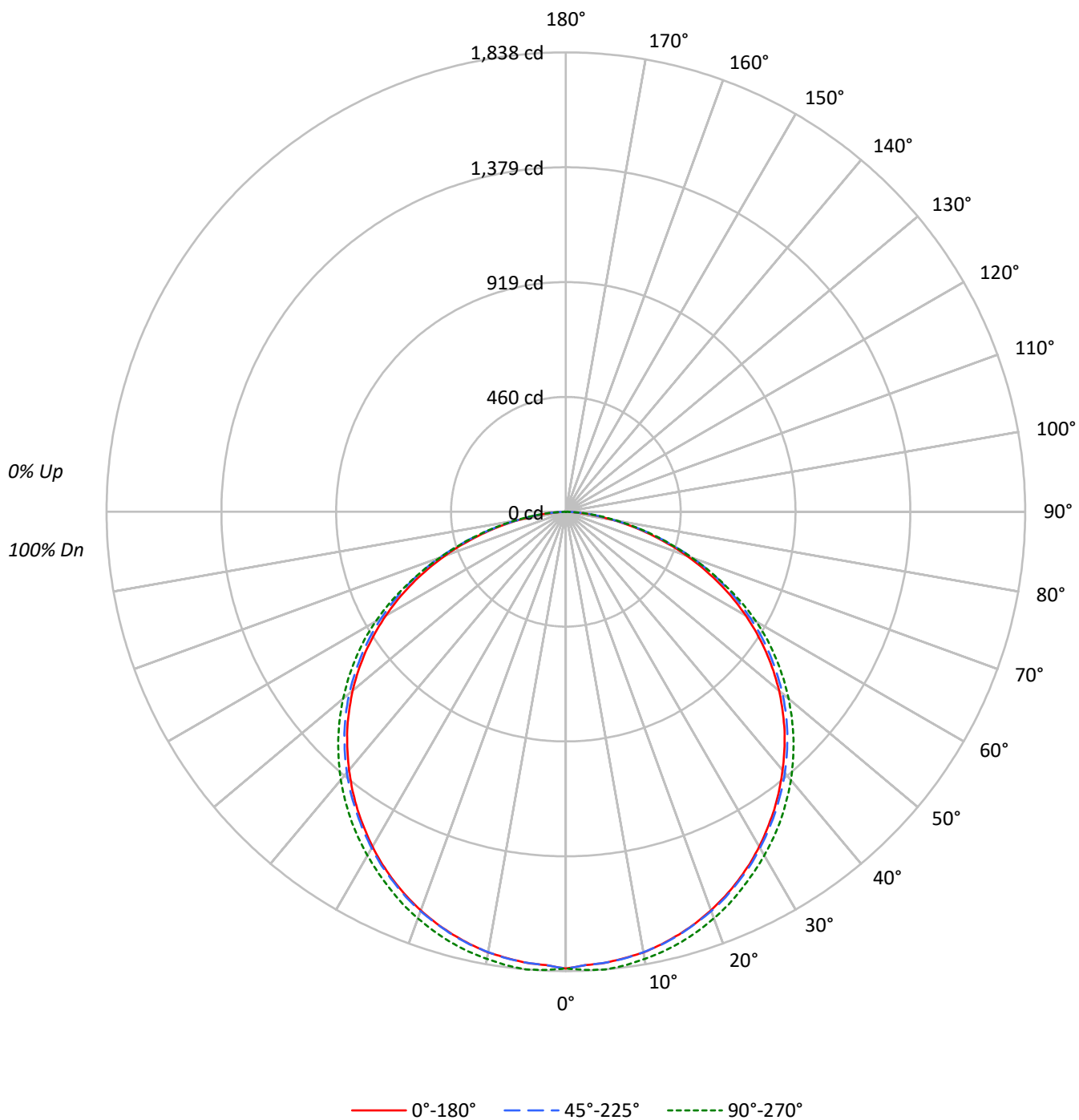
Lumens per Lamp: N/A
Luminaire Lumens: 5393.0 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	6158	6158	6158
5°	6128	6126	6218
10°	6126	6123	6216
15°	6107	6113	6220
20°	6088	6100	6210
25°	6058	6073	6190
30°	6021	6047	6179
35°	5982	6019	6176
40°	5936	5997	6164
45°	5899	5974	6139
50°	5840	5930	6099
55°	5749	5855	6040
60°	5610	5755	5932
65°	5399	5603	5662
70°	5077	5312	5280
75°	4558	4752	4785
80°	3766	3959	4166
85°	2521	2938	3097

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6139 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	3.2
10°-20°	497.9	9.2
20°-30°	758.2	14.1
30°-40°	922.7	17.1
40°-50°	972.7	18.0
50°-60°	895.9	16.6
60°-70°	691.9	12.8
70°-80°	387.2	7.2
80°-90°	93.3	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°	1429.2	26.5
0°-40°	2351.9	43.6
0°-60°	4220.5	78.3
0°-90°	5393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1828	1828	1828	1828	1828	
5°	1812	1837	1811	1814	1838	172
15°	1751	1775	1752	1762	1783	494
25°	1629	1652	1633	1644	1665	751
35°	1454	1476	1463	1482	1501	910
45°	1238	1255	1254	1273	1288	954
55°	979	995	997	1017	1028	873
65°	677	697	703	709	710	669
75°	350	372	365	364	368	371
85°	65	72	76	85	80	84
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1827.5	1827.5	1827.5	1827.5	1827.5
2.5°	1815.9	1842.4	1815.9	1820.1	1834.9
5°	1811.8	1837.4	1811.0	1813.5	1838.2
7.5°	1801.1	1827.5	1802.7	1806.0	1830.0
10°	1790.3	1814.3	1789.5	1793.6	1816.8
12.5°	1772.2	1796.9	1773.8	1778.8	1801.9
15°	1750.7	1774.6	1752.3	1762.3	1782.9
17.5°	1725.9	1749.0	1727.6	1739.1	1758.9
20°	1697.8	1720.1	1701.1	1709.4	1731.7
22.5°	1664.8	1687.9	1669.8	1677.2	1701.1
25°	1629.3	1652.4	1633.4	1644.2	1664.8
27.5°	1590.5	1612.8	1596.3	1609.5	1627.6
30°	1547.5	1569.0	1554.2	1569.8	1588.0
32.5°	1501.3	1524.4	1509.6	1527.7	1545.9
35°	1454.2	1475.7	1463.3	1481.5	1501.3
37.5°	1403.0	1423.7	1414.6	1433.6	1451.8
40°	1349.4	1372.5	1363.4	1383.2	1401.4
42.5°	1294.0	1316.3	1308.9	1329.5	1345.2
45°	1237.9	1255.2	1253.6	1272.6	1288.2
47.5°	1175.9	1197.4	1194.1	1213.1	1227.1
50°	1114.0	1131.3	1131.3	1149.5	1163.5
52.5°	1047.1	1064.5	1064.5	1085.9	1097.5
55°	978.6	995.1	996.7	1017.4	1028.1
57.5°	905.9	923.2	926.5	947.2	957.1
60°	832.4	848.9	853.9	874.5	880.3
62.5°	755.6	775.4	777.9	794.4	797.7
65°	677.2	697.0	702.8	709.4	710.2
67.5°	597.1	617.7	623.5	623.5	623.5
70°	515.3	534.3	539.2	535.9	535.9
72.5°	432.7	453.4	450.9	447.6	449.2
75°	350.1	371.6	365.0	364.2	367.5
77.5°	270.9	291.5	280.8	287.4	288.2
80°	194.1	209.8	204.0	213.9	214.7
82.5°	124.7	134.6	136.3	144.5	142.0
85°	65.2	71.8	76.0	85.1	80.1
87.5°	20.6	27.3	24.8	28.9	22.3
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	18.35	20.01	18.71	20.32	20.63	18.57	20.22	18.93	20.54	20.85
	3H	20.17	21.67	20.55	22.00	22.36	20.37	21.87	20.74	22.19	22.55
	4H	20.82	22.23	21.22	22.58	22.95	21.00	22.42	21.40	22.76	23.14
	6H	21.25	22.56	21.66	22.92	23.31	21.46	22.77	21.87	23.13	23.52
	8H	21.36	22.61	21.78	23.00	23.39	21.59	22.84	22.01	23.23	23.63
	12H	21.41	22.61	21.84	22.99	23.42	21.67	22.86	22.09	23.25	23.67
4H	2H	19.03	20.44	19.43	20.79	21.16	19.20	20.61	19.60	20.96	21.33
	3H	21.07	22.26	21.48	22.65	23.05	21.21	22.40	21.62	22.79	23.19
	4H	21.85	22.92	22.28	23.34	23.77	21.97	23.04	22.40	23.46	23.89
	6H	22.40	23.34	22.85	23.78	24.23	22.55	23.48	23.00	23.92	24.38
	8H	22.55	23.42	23.01	23.87	24.33	22.72	23.60	23.18	24.04	24.50
	12H	22.63	23.42	23.11	23.89	24.36	22.83	23.62	23.31	24.10	24.57
8H	4H	22.16	23.04	22.62	23.48	23.94	22.27	23.14	22.73	23.58	24.05
	6H	22.82	23.55	23.31	24.03	24.51	22.95	23.68	23.44	24.16	24.64
	8H	23.02	23.68	23.53	24.18	24.67	23.19	23.84	23.69	24.35	24.83
	12H	23.16	23.73	23.66	24.22	24.78	23.36	23.94	23.87	24.43	24.99
12H	4H	22.19	22.98	22.67	23.45	23.92	22.29	23.08	22.77	23.56	24.03
	6H	22.86	23.52	23.37	24.02	24.51	22.99	23.64	23.50	24.15	24.63
	8H	23.12	23.70	23.62	24.19	24.75	23.28	23.86	23.79	24.35	24.91