

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: P1585822

Luminaire Tested: 14CZSP-SB-60VHE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585822
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-L930-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 6200 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

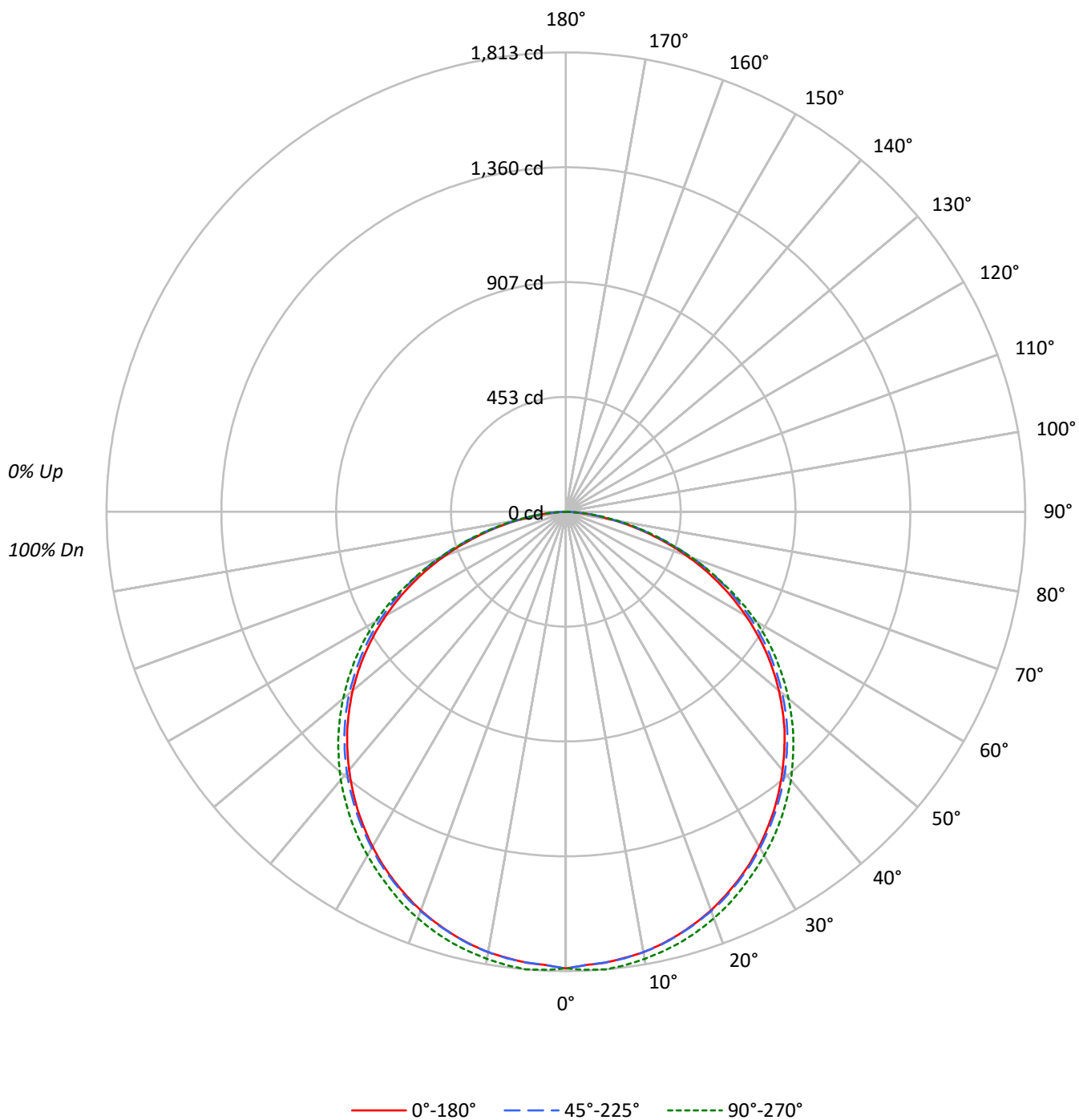
Lumens per Lamp: N/A
Luminaire Lumens: 5318.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6072	6072	6072
5°	6043	6040	6131
10°	6040	6038	6130
15°	6022	6028	6133
20°	6003	6015	6123
25°	5973	5988	6104
30°	5937	5963	6093
35°	5899	5936	6090
40°	5853	5914	6079
45°	5817	5890	6053
50°	5758	5848	6015
55°	5669	5774	5956
60°	5531	5674	5850
65°	5324	5525	5584
70°	5006	5238	5207
75°	4495	4686	4718
80°	3714	3902	4108
85°	2486	2896	3054

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6053 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.8	3.2
10°-20°	490.9	9.2
20°-30°	747.6	14.1
30°-40°	909.9	17.1
40°-50°	959.2	18.0
50°-60°	883.4	16.6
60°-70°	682.3	12.8
70°-80°	381.8	7.2
80°-90°	92.0	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°	1409.3	26.5
0°-40°	2319.2	43.6
0°-60°	4161.8	78.3
0°-90°	5318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1802	1802	1802	1802	1802	
5°	1787	1812	1786	1788	1813	170
15°	1726	1750	1728	1738	1758	487
25°	1607	1629	1611	1621	1642	741
35°	1434	1455	1443	1461	1480	897
45°	1221	1238	1236	1255	1270	941
55°	965	981	983	1003	1014	861
65°	668	687	693	700	700	660
75°	345	366	360	359	362	366
85°	64	71	75	84	79	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1802.1	1802.1	1802.1	1802.1	1802.1
2.5°	1790.7	1816.7	1790.7	1794.7	1809.4
5°	1786.6	1811.8	1785.8	1788.2	1812.7
7.5°	1776.0	1802.1	1777.6	1780.9	1804.5
10°	1765.4	1789.0	1764.6	1768.7	1791.5
12.5°	1747.5	1771.9	1749.1	1754.0	1776.8
15°	1726.3	1750.0	1728.0	1737.7	1758.1
17.5°	1701.9	1724.7	1703.5	1714.9	1734.5
20°	1674.2	1696.2	1677.5	1685.6	1707.6
22.5°	1641.7	1664.5	1646.5	1653.9	1677.5
25°	1606.6	1629.4	1610.7	1621.3	1641.7
27.5°	1568.4	1590.4	1574.1	1587.1	1605.0
30°	1526.0	1547.2	1532.5	1548.0	1565.9
32.5°	1480.4	1503.2	1488.6	1506.5	1524.4
35°	1434.0	1455.2	1443.0	1460.9	1480.4
37.5°	1383.5	1403.9	1394.9	1413.6	1431.6
40°	1330.6	1353.4	1344.4	1364.0	1381.9
42.5°	1276.0	1298.0	1290.7	1311.0	1326.5
45°	1220.7	1237.8	1236.1	1254.9	1270.3
47.5°	1159.6	1180.8	1177.5	1196.2	1210.1
50°	1098.5	1115.6	1115.6	1133.5	1147.4
52.5°	1032.5	1049.6	1049.6	1070.8	1082.2
55°	965.0	981.2	982.9	1003.2	1013.8
57.5°	893.3	910.4	913.7	934.0	943.8
60°	820.8	837.1	842.0	862.4	868.1
62.5°	745.1	764.6	767.1	783.4	786.6
65°	667.7	687.3	693.0	699.5	700.3
67.5°	588.7	609.1	614.8	614.8	614.8
70°	508.1	526.9	531.7	528.5	528.5
72.5°	426.7	447.1	444.6	441.4	443.0
75°	345.3	366.4	359.9	359.1	362.4
77.5°	267.1	287.5	276.9	283.4	284.2
80°	191.4	206.8	201.1	210.9	211.7
82.5°	123.0	132.7	134.4	142.5	140.1
85°	64.3	70.8	74.9	83.9	79.0
87.5°	20.4	26.9	24.4	28.5	22.0
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	18.30	19.96	18.67	20.27	20.59	18.52	20.17	18.88	20.49	20.80
	3H	20.12	21.62	20.50	21.95	22.31	20.32	21.82	20.69	22.14	22.50
	4H	20.77	22.18	21.17	22.53	22.90	20.96	22.37	21.35	22.72	23.09
	6H	21.20	22.51	21.61	22.87	23.26	21.41	22.72	21.82	23.08	23.47
	8H	21.31	22.56	21.73	22.95	23.34	21.54	22.79	21.96	23.18	23.58
	12H	21.36	22.56	21.79	22.94	23.37	21.62	22.82	22.05	23.20	23.63
4H	2H	18.98	20.39	19.38	20.74	21.12	19.15	20.56	19.55	20.91	21.28
	3H	21.02	22.21	21.43	22.60	23.00	21.16	22.35	21.57	22.75	23.15
	4H	21.80	22.87	22.23	23.29	23.72	21.92	22.99	22.35	23.41	23.84
	6H	22.35	23.29	22.80	23.73	24.18	22.50	23.43	22.95	23.87	24.33
	8H	22.50	23.37	22.96	23.82	24.28	22.67	23.55	23.13	23.99	24.45
	12H	22.58	23.37	23.06	23.84	24.31	22.79	23.57	23.26	24.05	24.52
8H	4H	22.11	22.99	22.57	23.43	23.89	22.22	23.09	22.68	23.54	24.00
	6H	22.77	23.50	23.26	23.98	24.46	22.90	23.63	23.39	24.11	24.59
	8H	22.97	23.63	23.48	24.13	24.62	23.14	23.79	23.65	24.30	24.78
	12H	23.11	23.69	23.61	24.18	24.74	23.31	23.89	23.82	24.38	24.94
12H	4H	22.14	22.93	22.62	23.40	23.87	22.25	23.03	22.72	23.51	23.98
	6H	22.81	23.47	23.32	23.97	24.46	22.94	23.60	23.45	24.10	24.59
	8H	23.07	23.65	23.58	24.14	24.70	23.23	23.81	23.74	24.30	24.86