

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: P1585826

Luminaire Tested: 14CZSP-SB-60VHE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585826
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-L940-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 6200 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

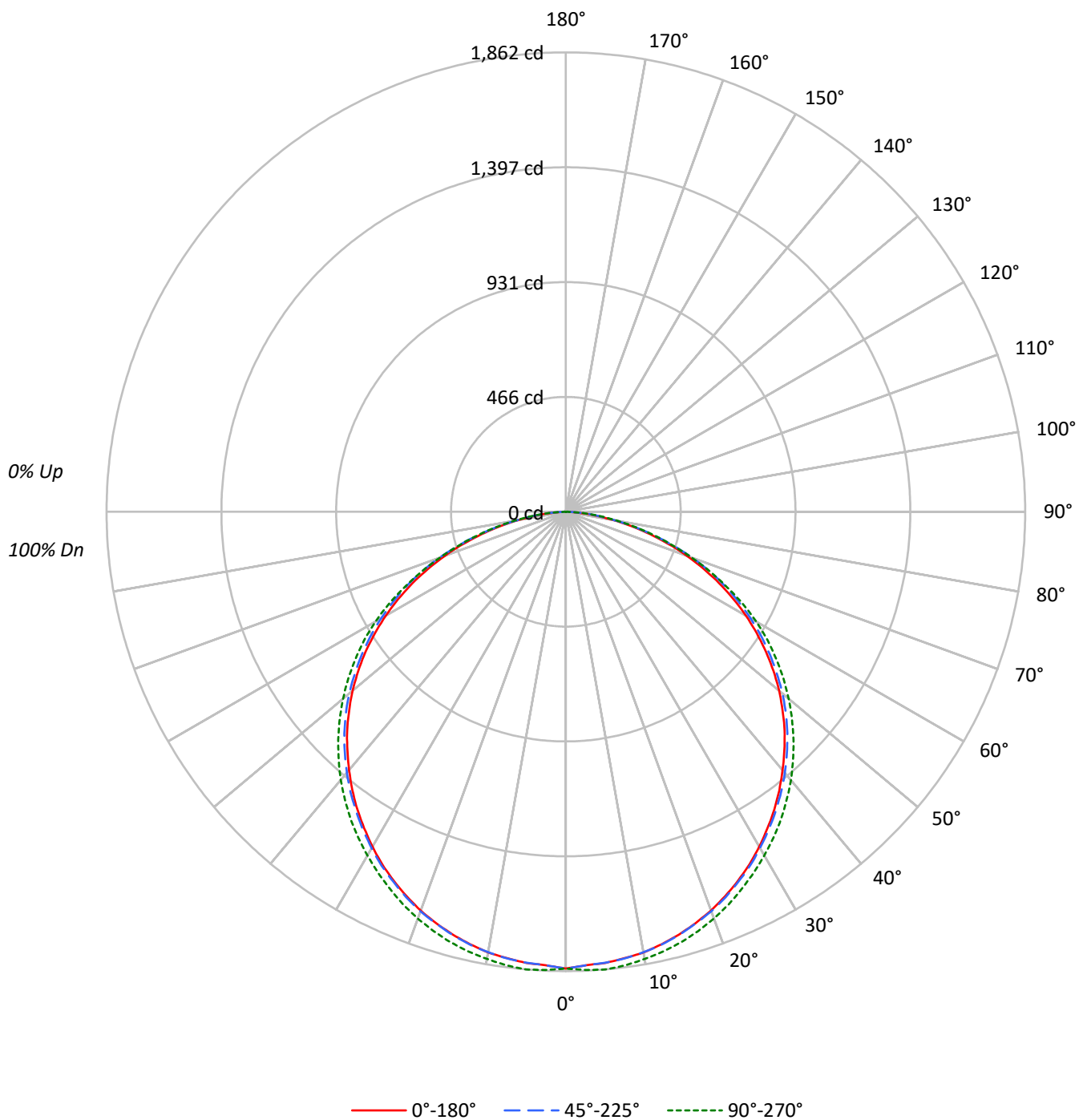
Lumens per Lamp: N/A
Luminaire Lumens: 5464.0 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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°	6239	6239	6239
5°	6209	6206	6299
10°	6206	6204	6298
15°	6187	6193	6302
20°	6168	6180	6291
25°	6137	6153	6271
30°	6100	6127	6260
35°	6061	6099	6257
40°	6013	6076	6245
45°	5977	6052	6220
50°	5917	6009	6180
55°	5825	5933	6120
60°	5684	5830	6011
65°	5470	5677	5737
70°	5144	5382	5350
75°	4618	4814	4847
80°	3815	4011	4221
85°	2556	2977	3139

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6220 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.5	3.2
10°-20°	504.4	9.2
20°-30°	768.1	14.1
30°-40°	934.8	17.1
40°-50°	985.5	18.0
50°-60°	907.7	16.6
60°-70°	701.0	12.8
70°-80°	392.3	7.2
80°-90°	94.6	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°	1448.0	26.5
0°-40°	2382.9	43.6
0°-60°	4276.1	78.3
0°-90°	5464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5464.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1852	1852	1852	1852	1852	
5°	1836	1862	1835	1837	1862	174
15°	1774	1798	1775	1786	1806	501
25°	1651	1674	1655	1666	1687	761
35°	1473	1495	1483	1501	1521	922
45°	1254	1272	1270	1289	1305	966
55°	992	1008	1010	1031	1042	885
65°	686	706	712	719	720	678
75°	355	376	370	369	372	376
85°	66	73	77	86	81	85
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1851.5	1851.5	1851.5	1851.5	1851.5
2.5°	1839.8	1866.6	1839.8	1844.0	1859.1
5°	1835.7	1861.6	1834.8	1837.3	1862.4
7.5°	1824.8	1851.5	1826.4	1829.8	1854.1
10°	1813.9	1838.2	1813.1	1817.2	1840.7
12.5°	1795.5	1820.6	1797.2	1802.2	1825.6
15°	1773.7	1798.0	1775.4	1785.5	1806.4
17.5°	1748.6	1772.1	1750.3	1762.0	1782.1
20°	1720.2	1742.8	1723.5	1731.9	1754.5
22.5°	1686.7	1710.2	1691.7	1699.3	1723.5
25°	1650.7	1674.2	1654.9	1665.8	1686.7
27.5°	1611.4	1634.0	1617.3	1630.7	1649.1
30°	1567.9	1589.7	1574.6	1590.5	1608.9
32.5°	1521.1	1544.5	1529.4	1547.8	1566.2
35°	1473.4	1495.1	1482.6	1501.0	1521.1
37.5°	1421.5	1442.4	1433.2	1452.5	1470.9
40°	1367.1	1390.5	1381.3	1401.4	1419.8
42.5°	1311.1	1333.7	1326.1	1347.0	1362.9
45°	1254.2	1271.7	1270.1	1289.3	1305.2
47.5°	1191.4	1213.2	1209.8	1229.1	1243.3
50°	1128.7	1146.2	1146.2	1164.6	1178.9
52.5°	1060.9	1078.5	1078.5	1100.2	1111.9
55°	991.5	1008.2	1009.9	1030.8	1041.7
57.5°	917.8	935.4	938.7	959.7	969.7
60°	843.4	860.1	865.1	886.0	891.9
62.5°	765.6	785.6	788.1	804.9	808.2
65°	686.1	706.1	712.0	718.7	719.5
67.5°	604.9	625.8	631.7	631.7	631.7
70°	522.1	541.3	546.3	543.0	543.0
72.5°	438.4	459.3	456.8	453.5	455.1
75°	354.7	376.5	369.8	369.0	372.3
77.5°	274.4	295.3	284.5	291.2	292.0
80°	196.6	212.5	206.7	216.7	217.5
82.5°	126.3	136.4	138.1	146.4	143.9
85°	66.1	72.8	77.0	86.2	81.2
87.5°	20.9	27.6	25.1	29.3	22.6
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	18.40	20.05	18.76	20.37	20.68	18.61	20.27	18.98	20.58	20.90
	3H	20.22	21.72	20.59	22.04	22.40	20.41	21.91	20.79	22.24	22.60
	4H	20.86	22.28	21.26	22.62	23.00	21.05	22.46	21.45	22.81	23.18
	6H	21.29	22.60	21.70	22.96	23.35	21.50	22.81	21.91	23.18	23.57
	8H	21.40	22.65	21.82	23.04	23.44	21.63	22.89	22.06	23.27	23.67
	12H	21.45	22.65	21.88	23.03	23.46	21.71	22.91	22.14	23.29	23.72
4H	2H	19.07	20.49	19.47	20.83	21.21	19.24	20.66	19.64	21.00	21.38
	3H	21.12	22.30	21.52	22.70	23.10	21.26	22.44	21.67	22.84	23.24
	4H	21.90	22.97	22.33	23.38	23.82	22.02	23.09	22.45	23.50	23.94
	6H	22.45	23.38	22.90	23.82	24.28	22.59	23.53	23.04	23.97	24.42
	8H	22.59	23.47	23.05	23.91	24.37	22.77	23.64	23.22	24.08	24.55
	12H	22.67	23.46	23.15	23.94	24.41	22.88	23.67	23.36	24.14	24.61
8H	4H	22.20	23.08	22.66	23.52	23.99	22.31	23.19	22.77	23.63	24.09
	6H	22.86	23.59	23.35	24.08	24.55	22.99	23.72	23.49	24.21	24.68
	8H	23.07	23.72	23.58	24.23	24.71	23.23	23.89	23.74	24.39	24.88
	12H	23.20	23.78	23.71	24.27	24.83	23.41	23.99	23.91	24.48	25.04
12H	4H	22.23	23.02	22.71	23.50	23.97	22.34	23.13	22.82	23.60	24.07
	6H	22.91	23.56	23.42	24.07	24.55	23.03	23.69	23.54	24.19	24.68
	8H	23.16	23.74	23.67	24.23	24.79	23.32	23.90	23.83	24.39	24.95