

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: P1585828

Luminaire Tested: 14CZSP-SB-60VHE-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585828
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-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6200 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

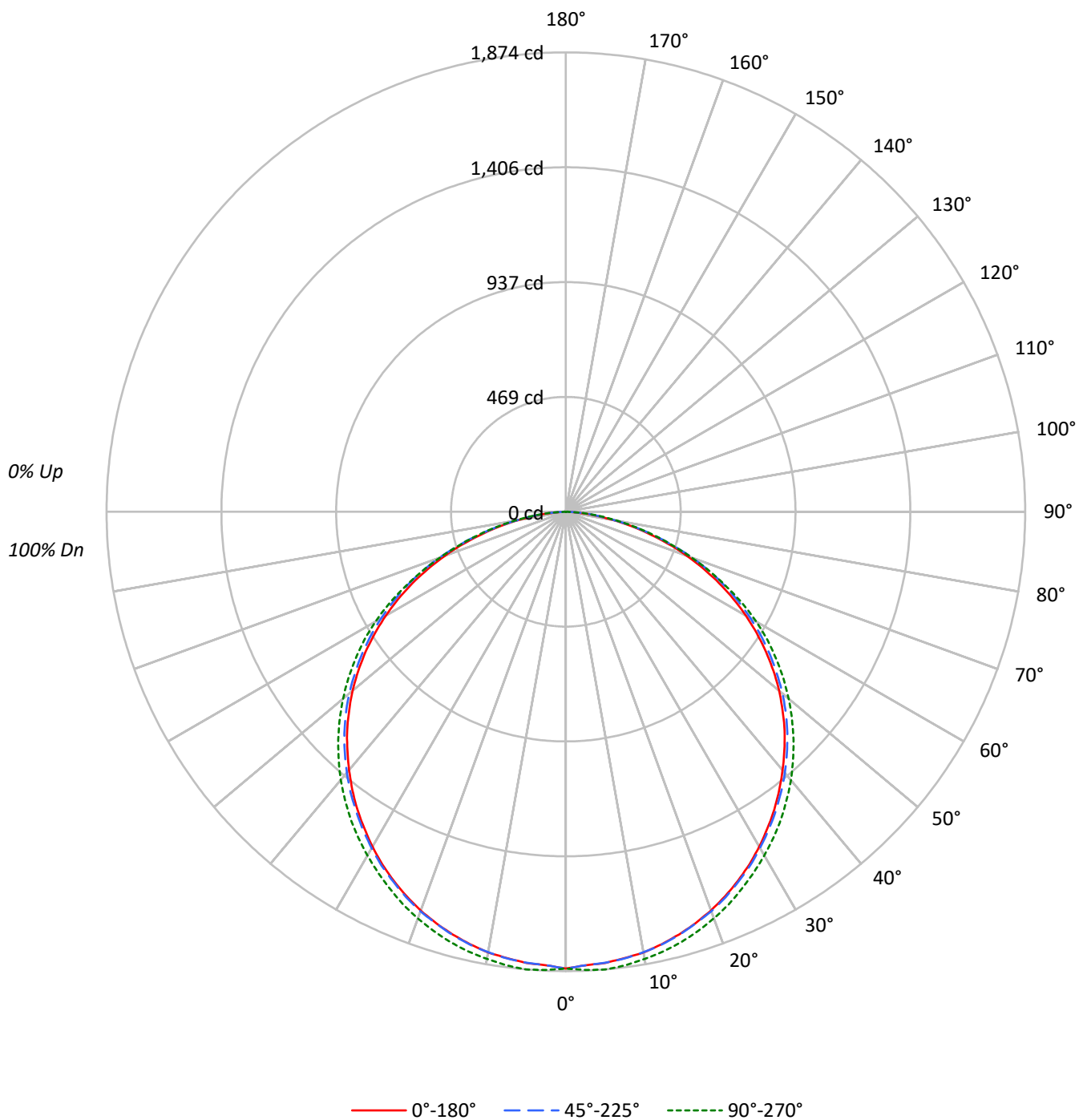
Lumens per Lamp: N/A
Luminaire Lumens: 5499.0 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	6279	6279	6279
5°	6249	6246	6340
10°	6246	6243	6338
15°	6227	6233	6342
20°	6208	6220	6331
25°	6177	6192	6311
30°	6140	6166	6300
35°	6099	6138	6297
40°	6052	6115	6285
45°	6015	6091	6260
50°	5955	6047	6219
55°	5862	5970	6158
60°	5720	5868	6049
65°	5505	5714	5773
70°	5176	5417	5384
75°	4648	4846	4878
80°	3840	4036	4248
85°	2571	2996	3159

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6260 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	3.2
10°-20°	507.6	9.2
20°-30°	773.1	14.1
30°-40°	940.8	17.1
40°-50°	991.8	18.0
50°-60°	913.5	16.6
60°-70°	705.5	12.8
70°-80°	394.8	7.2
80°-90°	95.2	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°	1457.3	26.5
0°-40°	2398.1	43.6
0°-60°	4303.5	78.3
0°-90°	5499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5499.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1863	1863	1863	1863	1863	
5°	1847	1874	1847	1849	1874	176
15°	1785	1810	1787	1797	1818	504
25°	1661	1685	1666	1676	1698	766
35°	1483	1505	1492	1511	1531	927
45°	1262	1280	1278	1298	1314	973
55°	998	1015	1016	1037	1048	891
65°	690	711	717	723	724	682
75°	357	379	372	371	375	379
85°	66	73	78	87	82	85
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1863.4	1863.4	1863.4	1863.4	1863.4
2.5°	1851.6	1878.6	1851.6	1855.8	1871.0
5°	1847.4	1873.5	1846.6	1849.1	1874.4
7.5°	1836.5	1863.4	1838.1	1841.5	1865.9
10°	1825.5	1849.9	1824.7	1828.9	1852.5
12.5°	1807.0	1832.3	1808.7	1813.7	1837.3
15°	1785.1	1809.5	1786.8	1796.9	1817.9
17.5°	1759.8	1783.4	1761.5	1773.3	1793.5
20°	1731.2	1753.9	1734.6	1743.0	1765.7
22.5°	1697.5	1721.1	1702.6	1710.2	1734.6
25°	1661.3	1684.9	1665.5	1676.5	1697.5
27.5°	1621.7	1644.5	1627.6	1641.1	1659.6
30°	1578.0	1599.9	1584.7	1600.7	1619.2
32.5°	1530.8	1554.4	1539.2	1557.8	1576.3
35°	1482.8	1504.7	1492.1	1510.6	1530.8
37.5°	1430.6	1451.7	1442.4	1461.8	1480.3
40°	1375.9	1399.5	1390.2	1410.4	1428.9
42.5°	1319.5	1342.2	1334.6	1355.7	1371.7
45°	1262.2	1279.9	1278.2	1297.6	1313.6
47.5°	1199.0	1220.9	1217.6	1236.9	1251.3
50°	1135.9	1153.6	1153.6	1172.1	1186.4
52.5°	1067.7	1085.4	1085.4	1107.3	1119.1
55°	997.8	1014.6	1016.3	1037.4	1048.3
57.5°	923.7	941.4	944.8	965.8	975.9
60°	848.8	865.6	870.7	891.7	897.6
62.5°	770.5	790.7	793.2	810.0	813.4
65°	690.5	710.7	716.6	723.3	724.1
67.5°	608.8	629.8	635.7	635.7	635.7
70°	525.4	544.8	549.8	546.5	546.5
72.5°	441.2	462.3	459.7	456.4	458.1
75°	357.0	378.9	372.2	371.3	374.7
77.5°	276.2	297.2	286.3	293.0	293.9
80°	197.9	213.9	208.0	218.1	218.9
82.5°	127.1	137.3	138.9	147.4	144.8
85°	66.5	73.3	77.5	86.7	81.7
87.5°	21.1	27.8	25.3	29.5	22.7
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	18.42	20.07	18.78	20.39	20.70	18.63	20.29	19.00	20.60	20.92
	3H	20.24	21.74	20.62	22.06	22.42	20.43	21.93	20.81	22.26	22.62
	4H	20.89	22.30	21.28	22.64	23.02	21.07	22.48	21.47	22.83	23.21
	6H	21.31	22.62	21.72	22.99	23.38	21.53	22.83	21.94	23.20	23.59
	8H	21.42	22.67	21.85	23.06	23.46	21.66	22.91	22.08	23.30	23.70
	12H	21.48	22.68	21.91	23.06	23.49	21.73	22.93	22.16	23.31	23.74
4H	2H	19.10	20.51	19.49	20.86	21.23	19.27	20.68	19.66	21.03	21.40
	3H	21.14	22.32	21.55	22.72	23.12	21.28	22.47	21.69	22.86	23.26
	4H	21.92	22.99	22.35	23.40	23.84	22.04	23.11	22.47	23.52	23.96
	6H	22.47	23.41	22.92	23.85	24.30	22.61	23.55	23.07	23.99	24.45
	8H	22.61	23.49	23.07	23.93	24.40	22.79	23.66	23.25	24.11	24.57
	12H	22.70	23.49	23.18	23.96	24.43	22.90	23.69	23.38	24.16	24.63
8H	4H	22.23	23.10	22.68	23.54	24.01	22.33	23.21	22.79	23.65	24.12
	6H	22.88	23.61	23.38	24.10	24.58	23.01	23.74	23.51	24.23	24.71
	8H	23.09	23.74	23.60	24.25	24.73	23.25	23.91	23.76	24.41	24.90
	12H	23.22	23.80	23.73	24.29	24.85	23.43	24.01	23.94	24.50	25.06
12H	4H	22.26	23.04	22.74	23.52	23.99	22.36	23.15	22.84	23.62	24.09
	6H	22.93	23.59	23.44	24.09	24.58	23.06	23.71	23.56	24.22	24.70
	8H	23.19	23.76	23.69	24.25	24.81	23.35	23.92	23.85	24.41	24.97