

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: P1585812

Luminaire Tested: 14CZSP-SB-60VHE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585812
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-L830-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 6200 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

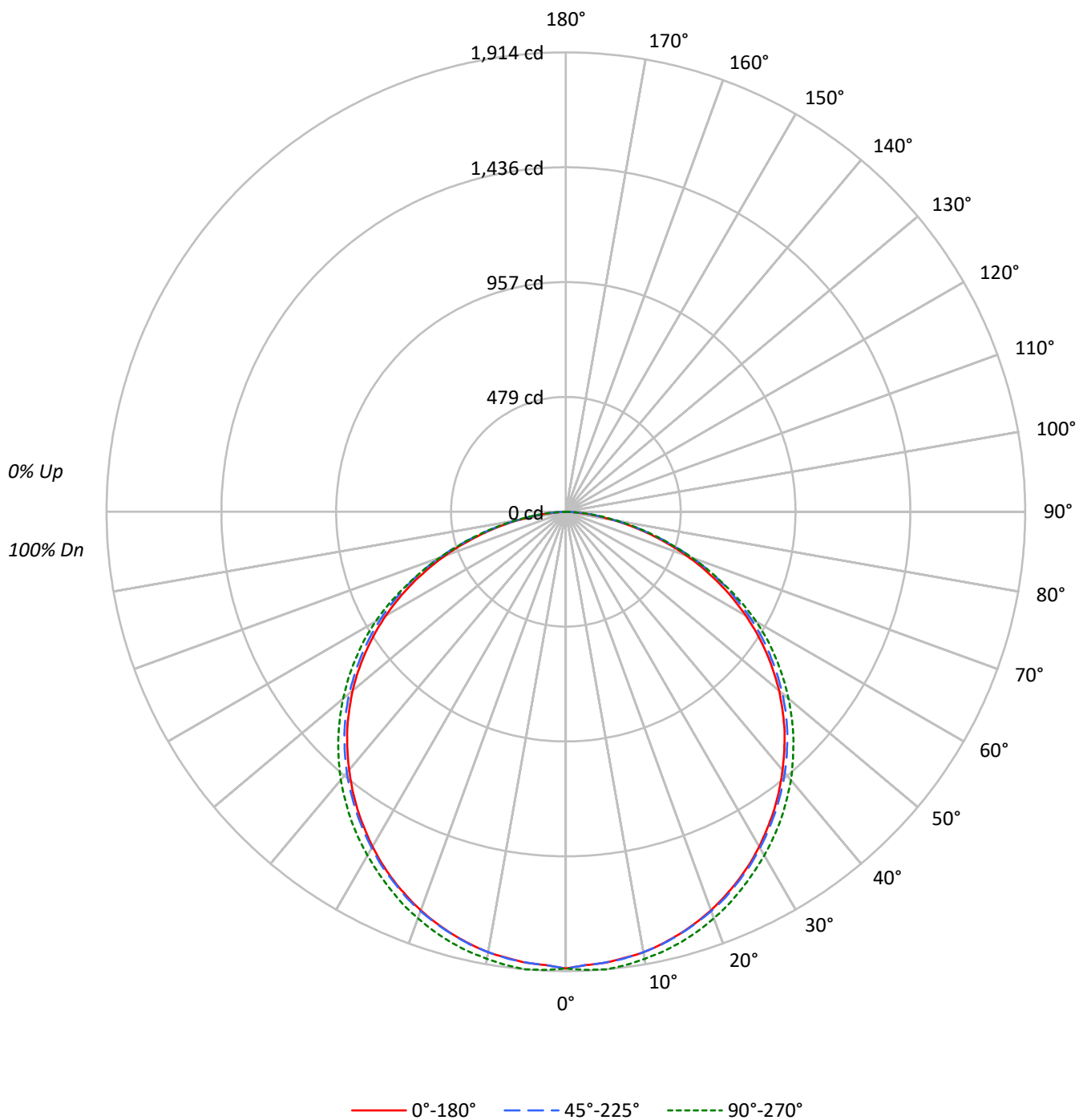
Lumens per Lamp: N/A
Luminaire Lumens: 5615.0 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	6411	6411	6411
5°	6381	6378	6474
10°	6378	6375	6472
15°	6359	6365	6476
20°	6339	6351	6465
25°	6307	6323	6444
30°	6269	6296	6433
35°	6228	6267	6430
40°	6180	6244	6418
45°	6142	6220	6392
50°	6080	6175	6350
55°	5986	6097	6288
60°	5841	5991	6176
65°	5621	5834	5895
70°	5286	5531	5497
75°	4747	4947	4981
80°	3922	4122	4337
85°	2625	3058	3224

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6392 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.3	3.2
10°-20°	518.4	9.2
20°-30°	789.4	14.1
30°-40°	960.7	17.1
40°-50°	1012.8	18.0
50°-60°	932.8	16.6
60°-70°	720.4	12.8
70°-80°	403.1	7.2
80°-90°	97.2	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°	1488.1	26.5
0°-40°	2448.7	43.6
0°-60°	4394.3	78.3
0°-90°	5615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1903	1903	1903	1903	1903	
5°	1886	1913	1886	1888	1914	179
15°	1823	1848	1824	1835	1856	515
25°	1696	1720	1701	1712	1733	782
35°	1514	1536	1524	1542	1563	947
45°	1289	1307	1305	1325	1341	993
55°	1019	1036	1038	1059	1070	909
65°	705	726	732	739	739	696
75°	365	387	380	379	383	387
85°	68	75	79	89	83	87
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1902.7	1902.7	1902.7	1902.7	1902.7
2.5°	1890.7	1918.2	1890.7	1895.0	1910.5
5°	1886.4	1913.0	1885.5	1888.1	1913.9
7.5°	1875.2	1902.7	1876.9	1880.4	1905.3
10°	1864.0	1889.0	1863.2	1867.5	1891.5
12.5°	1845.1	1870.9	1846.8	1852.0	1876.1
15°	1822.8	1847.7	1824.5	1834.8	1856.3
17.5°	1797.0	1821.0	1798.7	1810.7	1831.4
20°	1767.7	1790.9	1771.2	1779.8	1803.0
22.5°	1733.3	1757.4	1738.5	1746.2	1771.2
25°	1696.4	1720.4	1700.7	1711.8	1733.3
27.5°	1656.0	1679.2	1662.0	1675.7	1694.6
30°	1611.2	1633.6	1618.1	1634.5	1653.4
32.5°	1563.1	1587.2	1571.7	1590.6	1609.5
35°	1514.1	1536.4	1523.5	1542.5	1563.1
37.5°	1460.8	1482.3	1472.8	1492.6	1511.5
40°	1404.9	1429.0	1419.5	1440.1	1459.1
42.5°	1347.3	1370.5	1362.8	1384.3	1400.6
45°	1288.8	1306.9	1305.2	1324.9	1341.3
47.5°	1224.3	1246.7	1243.3	1263.0	1277.6
50°	1159.9	1177.9	1177.9	1196.8	1211.4
52.5°	1090.2	1108.3	1108.3	1130.6	1142.7
55°	1018.9	1036.0	1037.8	1059.3	1070.4
57.5°	943.2	961.2	964.7	986.2	996.5
60°	866.7	883.9	889.0	910.5	916.5
62.5°	786.7	807.3	809.9	827.1	830.6
65°	705.0	725.7	731.7	738.6	739.4
67.5°	621.6	643.1	649.1	649.1	649.1
70°	536.5	556.3	561.4	558.0	558.0
72.5°	450.5	472.0	469.4	466.0	467.7
75°	364.6	386.9	380.0	379.2	382.6
77.5°	282.0	303.5	292.3	299.2	300.1
80°	202.1	218.4	212.4	222.7	223.5
82.5°	129.8	140.1	141.9	150.5	147.9
85°	67.9	74.8	79.1	88.6	83.4
87.5°	21.5	28.4	25.8	30.1	23.2
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	18.49	20.15	18.85	20.46	20.77	18.71	20.36	19.07	20.68	20.99
	3H	20.31	21.81	20.69	22.14	22.50	20.51	22.01	20.88	22.33	22.69
	4H	20.96	22.37	21.36	22.72	23.09	21.14	22.56	21.54	22.90	23.28
	6H	21.39	22.70	21.80	23.06	23.45	21.60	22.91	22.01	23.27	23.66
	8H	21.50	22.75	21.92	23.14	23.53	21.73	22.98	22.15	23.37	23.77
	12H	21.55	22.75	21.98	23.13	23.56	21.81	23.00	22.23	23.39	23.81
4H	2H	19.17	20.58	19.57	20.93	21.30	19.34	20.75	19.74	21.10	21.47
	3H	21.21	22.40	21.62	22.79	23.19	21.35	22.54	21.76	22.94	23.33
	4H	21.99	23.06	22.42	23.48	23.91	22.11	23.18	22.54	23.60	24.03
	6H	22.54	23.48	22.99	23.92	24.37	22.69	23.62	23.14	24.06	24.52
	8H	22.69	23.56	23.15	24.01	24.47	22.86	23.74	23.32	24.18	24.64
	12H	22.77	23.56	23.25	24.03	24.50	22.97	23.76	23.45	24.24	24.71
8H	4H	22.30	23.18	22.76	23.62	24.08	22.41	23.28	22.87	23.72	24.19
	6H	22.96	23.69	23.45	24.17	24.65	23.09	23.82	23.58	24.30	24.78
	8H	23.16	23.82	23.67	24.32	24.81	23.33	23.98	23.83	24.49	24.97
	12H	23.30	23.87	23.80	24.36	24.92	23.50	24.08	24.01	24.57	25.13
12H	4H	22.33	23.12	22.81	23.59	24.06	22.43	23.22	22.91	23.70	24.17
	6H	23.00	23.66	23.51	24.16	24.65	23.13	23.78	23.64	24.29	24.77
	8H	23.26	23.84	23.76	24.33	24.89	23.42	24.00	23.93	24.49	25.05