

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: P1585823

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-60VHE-L930
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 6200 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

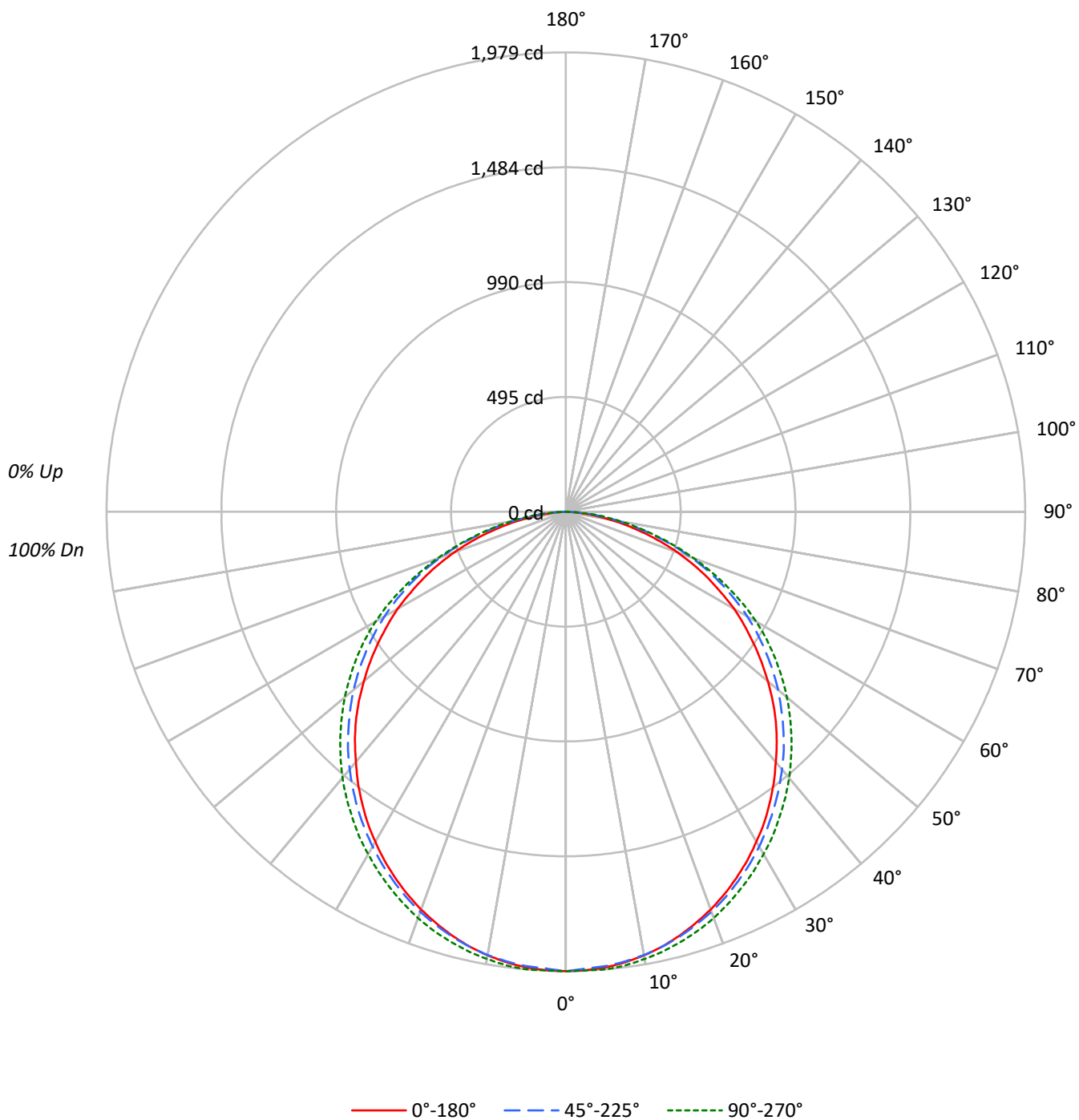
Lumens per Lamp: N/A
Luminaire Lumens: 5718.0 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6669	6669	6669
5°	6664	6647	6692
10°	6640	6634	6693
15°	6597	6611	6689
20°	6539	6577	6678
25°	6468	6529	6651
30°	6387	6480	6627
35°	6299	6427	6603
40°	6188	6373	6587
45°	6100	6315	6551
50°	5954	6256	6520
55°	5802	6174	6469
60°	5645	6083	6383
65°	5391	5923	6140
70°	5031	5656	5794
75°	4482	5126	5275
80°	3660	4444	4667
85°	2420	3534	3789

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6551 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.5	3.3
10°-20°	537.0	9.4
20°-30°	813.0	14.2
30°-40°	981.3	17.2
40°-50°	1024.8	17.9
50°-60°	937.5	16.4
60°-70°	724.8	12.7
70°-80°	410.3	7.2
80°-90°	101.9	1.8
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°	1537.4	26.9
0°-40°	2518.7	44.0
0°-60°	4481.0	78.4
0°-90°	5718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1979	1979	1979	1979	1979	
5°	1970	1984	1965	1967	1978	187
15°	1891	1908	1895	1904	1918	533
25°	1740	1762	1756	1772	1789	802
35°	1531	1553	1562	1589	1605	958
45°	1280	1305	1325	1359	1375	986
55°	988	1017	1051	1084	1101	883
65°	676	704	743	765	770	667
75°	344	374	394	404	405	365
85°	63	72	91	96	98	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1979.2	1979.2	1979.2	1979.2	1979.2
2.5°	1976.8	1990.8	1969.4	1973.5	1977.6
5°	1970.2	1984.2	1965.2	1966.9	1978.4
7.5°	1957.8	1973.5	1953.7	1957.0	1971.0
10°	1940.5	1956.2	1938.9	1942.2	1956.2
12.5°	1918.3	1933.9	1919.1	1924.1	1939.7
15°	1891.1	1907.6	1895.2	1904.3	1917.5
17.5°	1858.2	1878.8	1865.6	1879.6	1892.8
20°	1823.6	1844.2	1834.3	1846.6	1862.3
22.5°	1784.0	1804.6	1797.2	1810.4	1827.7
25°	1739.6	1761.8	1756.0	1772.5	1789.0
27.5°	1693.4	1714.8	1713.2	1731.3	1748.6
30°	1641.5	1664.6	1665.4	1686.8	1703.3
32.5°	1589.7	1610.2	1615.2	1639.1	1658.0
35°	1531.2	1552.6	1562.5	1588.8	1605.3
37.5°	1471.9	1495.8	1506.5	1535.3	1552.6
40°	1406.8	1434.0	1448.8	1479.3	1497.4
42.5°	1345.0	1369.7	1389.5	1420.0	1436.5
45°	1280.0	1304.7	1325.3	1359.0	1374.7
47.5°	1209.9	1237.1	1259.4	1292.3	1309.6
50°	1135.8	1165.5	1193.5	1225.6	1243.7
52.5°	1062.5	1091.3	1123.5	1154.8	1172.9
55°	987.6	1017.2	1051.0	1083.9	1101.2
57.5°	911.8	941.4	978.5	1008.2	1026.3
60°	837.7	864.8	902.7	932.4	947.2
62.5°	753.6	784.9	823.7	853.3	861.5
65°	676.2	704.2	742.9	765.2	770.1
67.5°	593.9	621.9	660.6	672.9	680.3
70°	510.7	540.3	574.1	582.3	588.1
72.5°	426.7	457.1	483.5	491.7	496.7
75°	344.3	373.9	393.7	403.6	405.2
77.5°	264.4	291.6	309.7	321.2	321.2
80°	188.6	209.2	229.0	241.3	240.5
82.5°	120.3	135.9	156.5	165.6	171.3
85°	62.6	72.5	91.4	95.5	98.0
87.5°	19.8	25.5	32.9	27.2	26.4
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	18.27	19.92	18.64	20.24	20.55	18.81	20.46	19.18	20.78	21.09
	3H	20.05	21.54	20.42	21.87	22.23	20.67	22.17	21.05	22.49	22.85
	4H	20.67	22.08	21.07	22.42	22.80	21.35	22.75	21.74	23.10	23.48
	6H	21.07	22.38	21.48	22.74	23.13	21.83	23.14	22.24	23.50	23.89
	8H	21.18	22.42	21.60	22.81	23.21	21.99	23.23	22.41	23.62	24.02
	12H	21.22	22.42	21.65	22.80	23.23	22.09	23.28	22.51	23.66	24.09
4H	2H	19.01	20.42	19.41	20.77	21.14	19.43	20.84	19.83	21.19	21.56
	3H	21.00	22.19	21.41	22.58	22.98	21.51	22.69	21.92	23.09	23.49
	4H	21.75	22.82	22.18	23.24	23.67	22.31	23.38	22.74	23.79	24.23
	6H	22.27	23.21	22.73	23.65	24.10	22.93	23.86	23.38	24.30	24.76
	8H	22.41	23.28	22.87	23.72	24.19	23.13	24.01	23.59	24.45	24.91
	12H	22.48	23.27	22.96	23.75	24.21	23.27	24.06	23.75	24.53	25.00
8H	4H	22.11	22.98	22.57	23.42	23.89	22.60	23.48	23.06	23.92	24.38
	6H	22.74	23.47	23.23	23.96	24.43	23.33	24.06	23.83	24.55	25.02
	8H	22.93	23.59	23.44	24.09	24.58	23.61	24.26	24.12	24.77	25.25
	12H	23.06	23.64	23.57	24.13	24.69	23.81	24.39	24.32	24.88	25.44
12H	4H	22.15	22.94	22.63	23.41	23.88	22.63	23.41	23.11	23.89	24.36
	6H	22.80	23.46	23.31	23.96	24.45	23.38	24.03	23.88	24.54	25.02
	8H	23.05	23.63	23.56	24.12	24.68	23.70	24.28	24.21	24.77	25.33