

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: P1587823

Luminaire Tested: 22CZSP-SB-60HE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-60HE-L930
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 6700 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

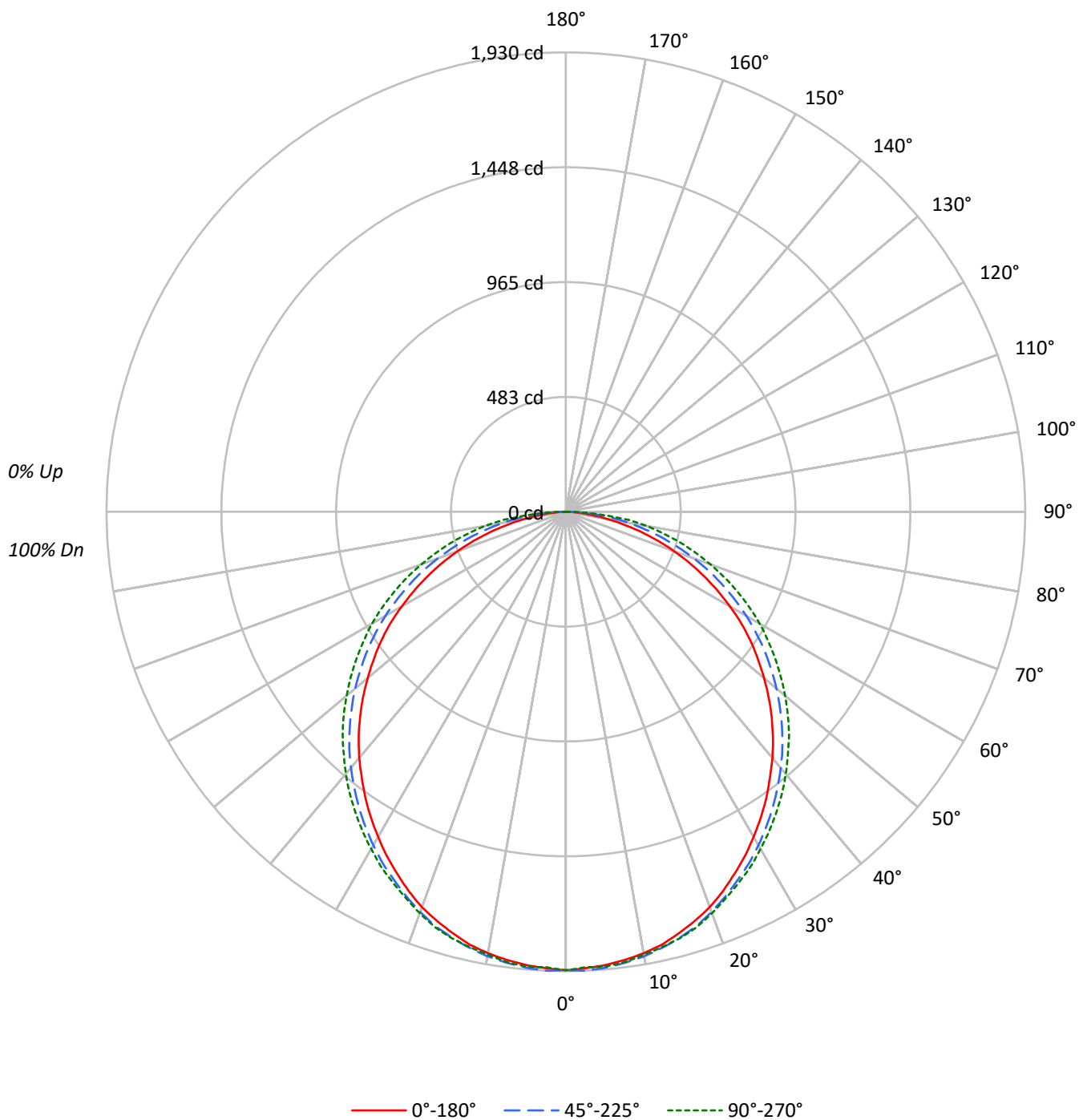
Lumens per Lamp: N/A
Luminaire Lumens: 5621.0 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 41.5
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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6031	6031	6031
5°	6009	6043	6028
10°	5988	6030	6007
15°	5943	6005	6013
20°	5891	5962	5982
25°	5795	5898	5940
30°	5704	5850	5915
35°	5612	5794	5894
40°	5520	5743	5879
45°	5416	5690	5874
50°	5297	5628	5859
55°	5177	5566	5858
60°	4984	5484	5893
65°	4751	5377	5897
70°	4433	5228	5914
75°	3944	5038	6017
80°	3239	4827	6243
85°	2138	4531	5641

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6393 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	3.2
10°-20°	521.5	9.3
20°-30°	786.0	14.0
30°-40°	946.6	16.8
40°-50°	988.9	17.6
50°-60°	908.6	16.2
60°-70°	715.5	12.7
70°-80°	438.7	7.8
80°-90°	133.0	2.4
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°	1489.8	26.5
0°-40°	2436.4	43.3
0°-60°	4333.9	77.1
0°-90°	5621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1926	1926	1926	1926	1926	
5°	1912	1915	1922	1920	1918	182
15°	1833	1840	1852	1860	1855	517
25°	1677	1688	1707	1725	1719	773
35°	1468	1487	1516	1543	1542	918
45°	1223	1249	1285	1320	1326	943
55°	948	976	1020	1064	1073	846
65°	641	674	726	774	796	634
75°	326	364	416	466	497	346
85°	60	88	126	140	157	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1926.1	1926.1	1926.1	1926.1	1926.1
2.5°	1919.0	1923.7	1929.7	1920.1	1915.4
5°	1911.8	1915.4	1922.5	1920.1	1917.8
7.5°	1898.7	1901.1	1910.6	1910.6	1908.2
10°	1883.3	1888.0	1896.3	1895.2	1889.2
12.5°	1863.0	1866.6	1876.1	1876.1	1872.6
15°	1833.3	1840.4	1852.3	1859.5	1854.7
17.5°	1802.4	1809.5	1825.0	1832.1	1829.7
20°	1767.9	1773.8	1789.3	1800.0	1795.2
22.5°	1725.0	1732.2	1750.0	1761.9	1757.2
25°	1677.4	1688.2	1707.2	1725.0	1719.1
27.5°	1629.9	1641.8	1665.6	1683.4	1681.0
30°	1577.5	1593.0	1618.0	1640.6	1635.8
32.5°	1524.0	1541.8	1568.0	1591.8	1590.6
35°	1468.1	1487.1	1515.7	1543.0	1541.8
37.5°	1408.6	1431.2	1460.9	1490.7	1491.9
40°	1350.3	1371.7	1405.0	1437.1	1438.3
42.5°	1288.4	1311.0	1346.7	1380.0	1381.2
45°	1223.0	1249.2	1284.9	1320.5	1326.5
47.5°	1156.4	1183.7	1220.6	1258.7	1265.8
50°	1087.4	1115.9	1155.2	1195.6	1202.8
52.5°	1017.2	1046.9	1087.4	1127.8	1138.5
55°	948.2	975.5	1019.6	1063.6	1073.1
57.5°	875.6	900.6	948.2	994.6	1006.5
60°	795.9	826.8	875.6	922.0	941.0
62.5°	718.6	751.9	801.8	848.2	869.7
65°	641.2	674.5	725.7	774.5	795.9
67.5°	562.7	597.2	651.9	698.3	722.1
70°	484.2	518.7	571.0	621.0	646.0
72.5°	405.7	442.6	493.7	544.9	569.9
75°	326.0	364.0	416.4	466.4	497.3
77.5°	251.0	287.9	340.2	391.4	417.6
80°	179.6	216.5	267.7	318.8	346.2
82.5°	114.2	148.7	198.7	241.5	266.5
85°	59.5	88.0	126.1	140.4	157.0
87.5°	17.8	34.5	48.8	54.7	67.8
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	17.76	19.42	18.12	19.73	20.05	18.50	20.17	18.87	20.48	20.79
	3H	19.52	21.03	19.90	21.35	21.71	20.60	22.11	20.97	22.43	22.79
	4H	20.14	21.57	20.54	21.91	22.29	21.48	22.91	21.88	23.25	23.63
	6H	20.56	21.88	20.97	22.24	22.63	22.25	23.57	22.66	23.93	24.32
	8H	20.66	21.93	21.09	22.31	22.71	22.56	23.82	22.99	24.21	24.61
	12H	20.71	21.92	21.14	22.31	22.73	22.77	23.98	23.20	24.37	24.79
4H	2H	18.53	19.95	18.92	20.30	20.67	19.11	20.53	19.50	20.88	21.25
	3H	20.52	21.72	20.93	22.11	22.51	21.43	22.63	21.84	23.03	23.43
	4H	21.27	22.36	21.70	22.77	23.21	22.47	23.56	22.90	23.97	24.40
	6H	21.81	22.76	22.26	23.20	23.66	23.40	24.35	23.85	24.79	25.25
	8H	21.96	22.85	22.42	23.29	23.76	23.78	24.68	24.24	25.12	25.58
	12H	22.04	22.85	22.52	23.32	23.79	24.06	24.86	24.54	25.34	25.81
8H	4H	21.73	22.62	22.18	23.06	23.52	22.77	23.66	23.23	24.10	24.57
	6H	22.40	23.15	22.90	23.63	24.11	23.85	24.60	24.35	25.08	25.56
	8H	22.62	23.29	23.13	23.80	24.28	24.34	25.01	24.85	25.51	26.00
	12H	22.77	23.36	23.28	23.85	24.41	24.72	25.31	25.22	25.80	26.36
12H	4H	21.81	22.61	22.29	23.09	23.56	22.80	23.60	23.28	24.08	24.54
	6H	22.53	23.20	23.04	23.71	24.19	23.91	24.58	24.41	25.08	25.57
	8H	22.82	23.41	23.33	23.90	24.46	24.46	25.05	24.97	25.54	26.10