

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: P1587809

Luminaire Tested: 22CZSP-SB-57HE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587809
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-57HE-L945
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 5700 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

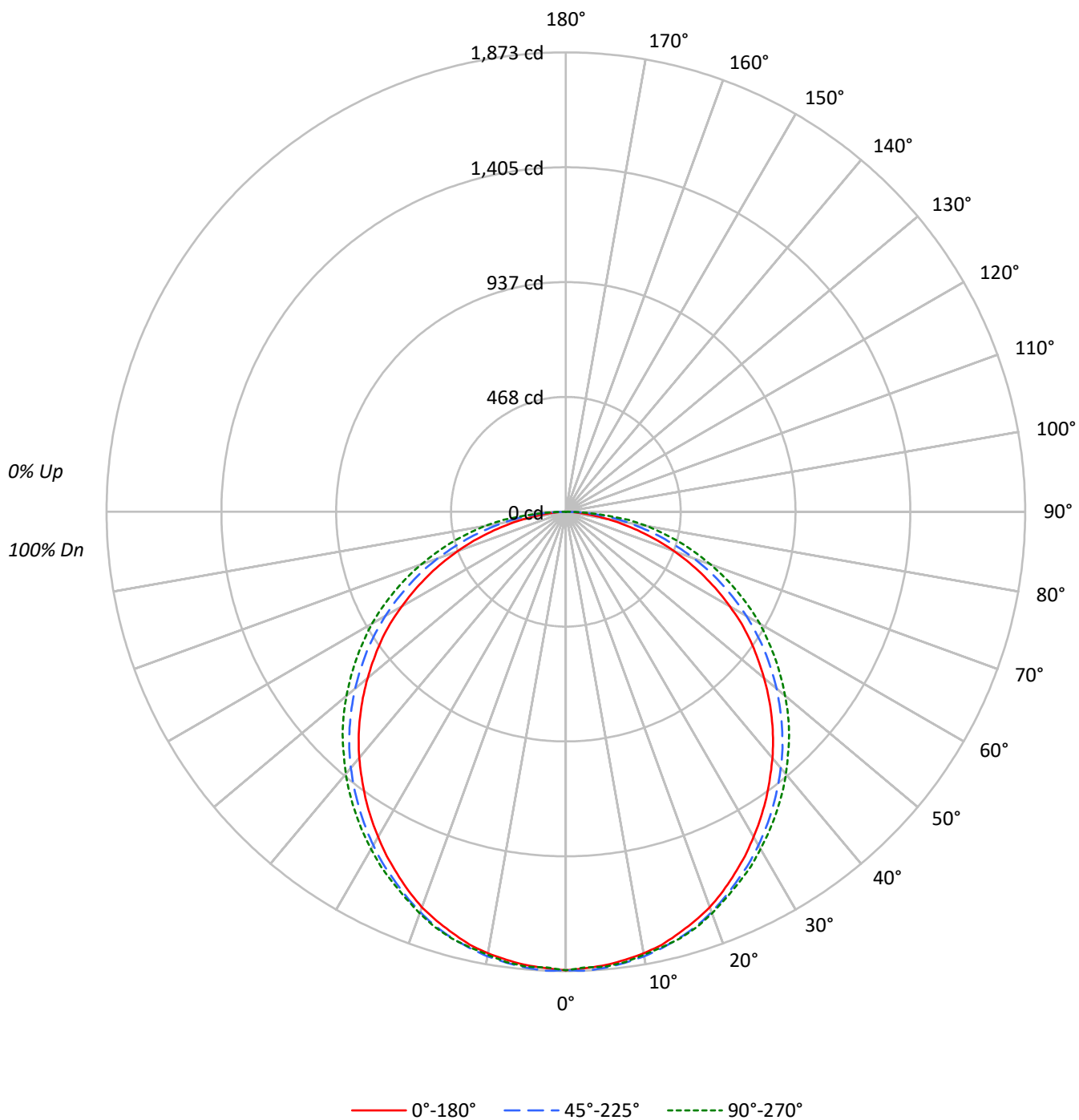
Lumens per Lamp: N/A
Luminaire Lumens: 5456.0 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 38.9
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	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°	5854	5854	5854
5°	5833	5866	5851
10°	5812	5853	5831
15°	5769	5829	5836
20°	5718	5788	5807
25°	5625	5725	5765
30°	5536	5679	5741
35°	5447	5624	5721
40°	5358	5575	5707
45°	5257	5523	5702
50°	5141	5462	5687
55°	5024	5403	5686
60°	4838	5323	5720
65°	4612	5219	5724
70°	4303	5075	5740
75°	3828	4890	5840
80°	3145	4685	6059
85°	2073	4398	5475

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6206 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.9	3.2
10°-20°	506.2	9.3
20°-30°	763.0	14.0
30°-40°	918.8	16.8
40°-50°	959.9	17.6
50°-60°	881.9	16.2
60°-70°	694.5	12.7
70°-80°	425.8	7.8
80°-90°	129.1	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°	1446.0	26.5
0°-40°	2364.8	43.3
0°-60°	4206.7	77.1
0°-90°	5456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1870	1870	1870	1870	1870	
5°	1856	1859	1866	1864	1862	176
15°	1780	1786	1798	1805	1800	502
25°	1628	1639	1657	1674	1669	751
35°	1425	1443	1471	1498	1497	891
45°	1187	1212	1247	1282	1288	916
55°	920	947	990	1032	1042	821
65°	622	655	704	752	772	615
75°	316	353	404	453	483	336
85°	58	86	122	136	152	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1869.6	1869.6	1869.6	1869.6	1869.6
2.5°	1862.6	1867.2	1873.0	1863.8	1859.2
5°	1855.7	1859.2	1866.1	1863.8	1861.5
7.5°	1843.0	1845.3	1854.5	1854.5	1852.2
10°	1828.0	1832.6	1840.7	1839.5	1833.8
12.5°	1808.4	1811.8	1821.1	1821.1	1817.6
15°	1779.5	1786.4	1798.0	1804.9	1800.3
17.5°	1749.5	1756.4	1771.4	1778.3	1776.0
20°	1716.0	1721.7	1736.8	1747.1	1742.5
22.5°	1674.4	1681.3	1698.6	1710.2	1705.6
25°	1628.2	1638.6	1657.1	1674.4	1668.6
27.5°	1582.0	1593.6	1616.7	1634.0	1631.7
30°	1531.2	1546.2	1570.5	1592.4	1587.8
32.5°	1479.2	1496.6	1522.0	1545.1	1543.9
35°	1425.0	1443.4	1471.2	1497.7	1496.6
37.5°	1367.2	1389.2	1418.0	1446.9	1448.1
40°	1310.7	1331.4	1363.8	1394.9	1396.1
42.5°	1250.6	1272.5	1307.2	1339.5	1340.7
45°	1187.1	1212.5	1247.1	1281.8	1287.6
47.5°	1122.4	1149.0	1184.8	1221.7	1228.7
50°	1055.4	1083.2	1121.3	1160.5	1167.5
52.5°	987.3	1016.2	1055.4	1094.7	1105.1
55°	920.3	946.9	989.6	1032.4	1041.6
57.5°	849.9	874.2	920.3	965.4	976.9
60°	772.5	802.6	849.9	894.9	913.4
62.5°	697.5	729.8	778.3	823.3	844.1
65°	622.4	654.7	704.4	751.7	772.5
67.5°	546.2	579.7	632.8	677.8	700.9
70°	470.0	503.5	554.3	602.8	627.0
72.5°	393.8	429.6	479.2	528.9	553.1
75°	316.4	353.4	404.2	452.7	482.7
77.5°	243.7	279.5	330.3	379.9	405.3
80°	174.4	210.2	259.8	309.5	336.0
82.5°	110.9	144.3	192.8	234.4	258.7
85°	57.7	85.5	122.4	136.3	152.4
87.5°	17.3	33.5	47.3	53.1	65.8
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	17.65	19.32	18.02	19.63	19.94	18.40	20.06	18.76	20.38	20.69
	3H	19.42	20.92	19.79	21.25	21.61	20.49	22.00	20.87	22.33	22.69
	4H	20.04	21.46	20.44	21.81	22.19	21.38	22.80	21.78	23.15	23.52
	6H	20.45	21.77	20.86	22.14	22.53	22.15	23.47	22.56	23.83	24.22
	8H	20.56	21.82	20.98	22.21	22.61	22.46	23.72	22.88	24.11	24.51
	12H	20.61	21.82	21.04	22.20	22.63	22.67	23.88	23.10	24.26	24.69
4H	2H	18.42	19.85	18.82	20.19	20.57	19.00	20.43	19.40	20.77	21.15
	3H	20.42	21.62	20.83	22.01	22.41	21.33	22.53	21.74	22.93	23.33
	4H	21.17	22.26	21.60	22.67	23.10	22.37	23.45	22.80	23.87	24.30
	6H	21.71	22.66	22.16	23.10	23.55	23.30	24.25	23.75	24.69	25.14
	8H	21.85	22.75	22.31	23.19	23.65	23.68	24.57	24.14	25.01	25.48
	12H	21.94	22.74	22.42	23.22	23.69	23.96	24.76	24.44	25.23	25.70
8H	4H	21.62	22.52	22.08	22.96	23.42	22.67	23.56	23.12	24.00	24.46
	6H	22.30	23.05	22.79	23.53	24.01	23.75	24.49	24.24	24.98	25.46
	8H	22.52	23.19	23.03	23.69	24.18	24.24	24.91	24.75	25.41	25.90
	12H	22.67	23.26	23.17	23.75	24.31	24.61	25.20	25.12	25.69	26.25
12H	4H	21.71	22.51	22.19	22.98	23.45	22.69	23.50	23.17	23.97	24.44
	6H	22.43	23.10	22.94	23.60	24.09	23.80	24.47	24.31	24.98	25.46
	8H	22.72	23.31	23.22	23.80	24.36	24.36	24.95	24.86	25.44	26.00