

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: P1587789

Luminaire Tested: 22CZSP-SB-54HE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587789
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-54HE-L945
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

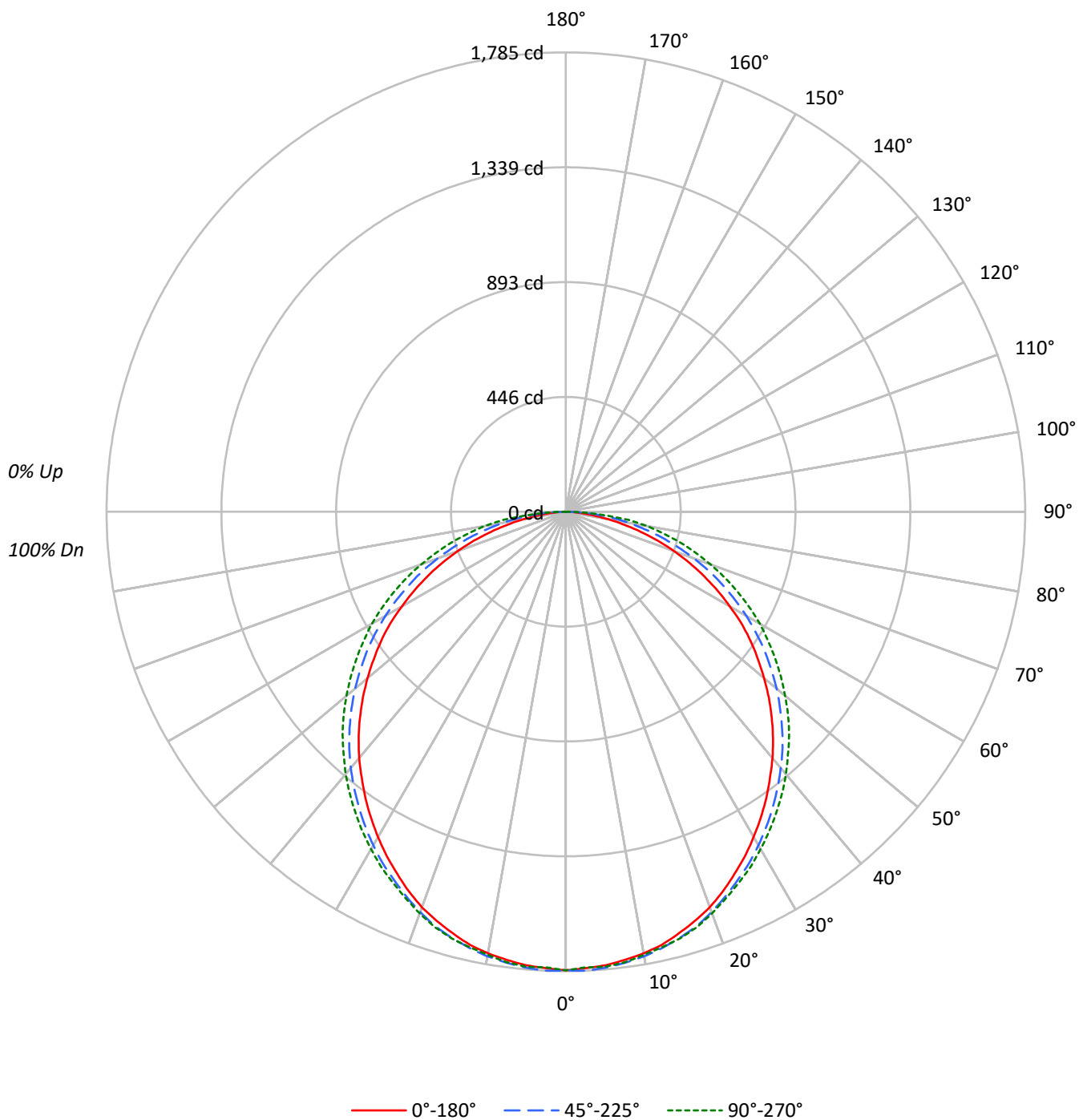
Lumens per Lamp: N/A
Luminaire Lumens: 5200.0 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.1
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°	5579	5579	5579
5°	5559	5590	5577
10°	5540	5578	5557
15°	5498	5555	5562
20°	5450	5516	5534
25°	5362	5457	5495
30°	5277	5412	5472
35°	5192	5360	5452
40°	5106	5313	5439
45°	5010	5264	5434
50°	4900	5206	5420
55°	4789	5149	5419
60°	4611	5073	5452
65°	4395	4975	5456
70°	4101	4837	5471
75°	3649	4660	5565
80°	2997	4465	5776
85°	1976	4193	5220

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5914 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	3.2
10°-20°	482.5	9.3
20°-30°	727.2	14.0
30°-40°	875.7	16.8
40°-50°	914.9	17.6
50°-60°	840.5	16.2
60°-70°	661.9	12.7
70°-80°	405.8	7.8
80°-90°	123.0	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°	1378.2	26.5
0°-40°	2253.9	43.3
0°-60°	4009.3	77.1
0°-90°	5200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5200.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1782	1782	1782	1782	1782	
5°	1769	1772	1778	1776	1774	168
15°	1696	1703	1714	1720	1716	479
25°	1552	1562	1579	1596	1590	715
35°	1358	1376	1402	1427	1426	849
45°	1131	1156	1189	1222	1227	873
55°	877	902	943	984	993	783
65°	593	624	671	716	736	586
75°	302	337	385	431	460	321
85°	55	81	117	130	145	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1781.8	1781.8	1781.8	1781.8	1781.8
2.5°	1775.2	1779.6	1785.1	1776.3	1771.9
5°	1768.6	1771.9	1778.5	1776.3	1774.1
7.5°	1756.5	1758.7	1767.5	1767.5	1765.3
10°	1742.2	1746.6	1754.3	1753.2	1747.7
12.5°	1723.5	1726.8	1735.6	1735.6	1732.3
15°	1696.0	1702.6	1713.6	1720.2	1715.8
17.5°	1667.4	1674.0	1688.3	1694.9	1692.7
20°	1635.5	1641.0	1655.3	1665.2	1660.8
22.5°	1595.8	1602.4	1618.9	1630.0	1625.6
25°	1551.8	1561.7	1579.3	1595.8	1590.3
27.5°	1507.8	1518.8	1540.8	1557.3	1555.1
30°	1459.4	1473.7	1496.8	1517.7	1513.3
32.5°	1409.8	1426.3	1450.6	1472.6	1471.5
35°	1358.1	1375.7	1402.1	1427.4	1426.3
37.5°	1303.1	1324.0	1351.5	1379.0	1380.1
40°	1249.2	1269.0	1299.8	1329.5	1330.6
42.5°	1191.9	1212.8	1245.9	1276.7	1277.8
45°	1131.4	1155.6	1188.6	1221.6	1227.1
47.5°	1069.8	1095.1	1129.2	1164.4	1171.0
50°	1005.9	1032.3	1068.7	1106.1	1112.7
52.5°	941.0	968.5	1005.9	1043.3	1053.3
55°	877.2	902.5	943.2	983.9	992.7
57.5°	810.0	833.1	877.2	920.1	931.1
60°	736.3	764.9	810.0	852.9	870.6
62.5°	664.7	695.6	741.8	784.7	804.5
65°	593.2	624.0	671.4	716.5	736.3
67.5°	520.6	552.5	603.1	646.0	668.0
70°	447.9	479.9	528.3	574.5	597.6
72.5°	375.3	409.4	456.7	504.1	527.2
75°	301.6	336.8	385.2	431.4	460.0
77.5°	232.2	266.3	314.8	362.1	386.3
80°	166.2	200.3	247.6	295.0	320.3
82.5°	105.7	137.6	183.8	223.4	246.5
85°	55.0	81.4	116.7	129.9	145.3
87.5°	16.5	31.9	45.1	50.6	62.7
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	17.49	19.15	17.85	19.46	19.78	18.23	19.90	18.60	20.21	20.52
	3H	19.25	20.76	19.63	21.08	21.44	20.33	21.84	20.70	22.16	22.52
	4H	19.87	21.30	20.27	21.64	22.02	21.21	22.63	21.61	22.98	23.36
	6H	20.29	21.61	20.70	21.97	22.36	21.98	23.30	22.39	23.66	24.05
	8H	20.39	21.65	20.82	22.04	22.44	22.29	23.55	22.71	23.94	24.34
	12H	20.44	21.65	20.87	22.04	22.46	22.50	23.71	22.93	24.10	24.52
4H	2H	18.26	19.68	18.65	20.03	20.40	18.84	20.26	19.23	20.61	20.98
	3H	20.25	21.45	20.66	21.84	22.24	21.16	22.36	21.57	22.76	23.16
	4H	21.00	22.09	21.43	22.50	22.94	22.20	23.29	22.63	23.70	24.13
	6H	21.54	22.49	21.99	22.93	23.39	23.13	24.08	23.58	24.52	24.98
	8H	21.69	22.58	22.15	23.02	23.49	23.51	24.41	23.97	24.85	25.31
	12H	21.77	22.58	22.25	23.05	23.52	23.79	24.59	24.27	25.07	25.54
8H	4H	21.46	22.35	21.91	22.79	23.25	22.50	23.39	22.96	23.83	24.30
	6H	22.13	22.88	22.63	23.36	23.84	23.58	24.33	24.08	24.81	25.29
	8H	22.35	23.02	22.86	23.53	24.01	24.07	24.74	24.58	25.24	25.73
	12H	22.50	23.09	23.01	23.58	24.14	24.45	25.04	24.95	25.53	26.09
12H	4H	21.54	22.34	22.02	22.82	23.29	22.53	23.33	23.01	23.80	24.27
	6H	22.26	22.93	22.77	23.44	23.92	23.64	24.31	24.14	24.81	25.30
	8H	22.55	23.14	23.06	23.63	24.19	24.19	24.78	24.69	25.27	25.83