

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: P1587758

Luminaire Tested: 22CZSP-SB-52-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-52-L845-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

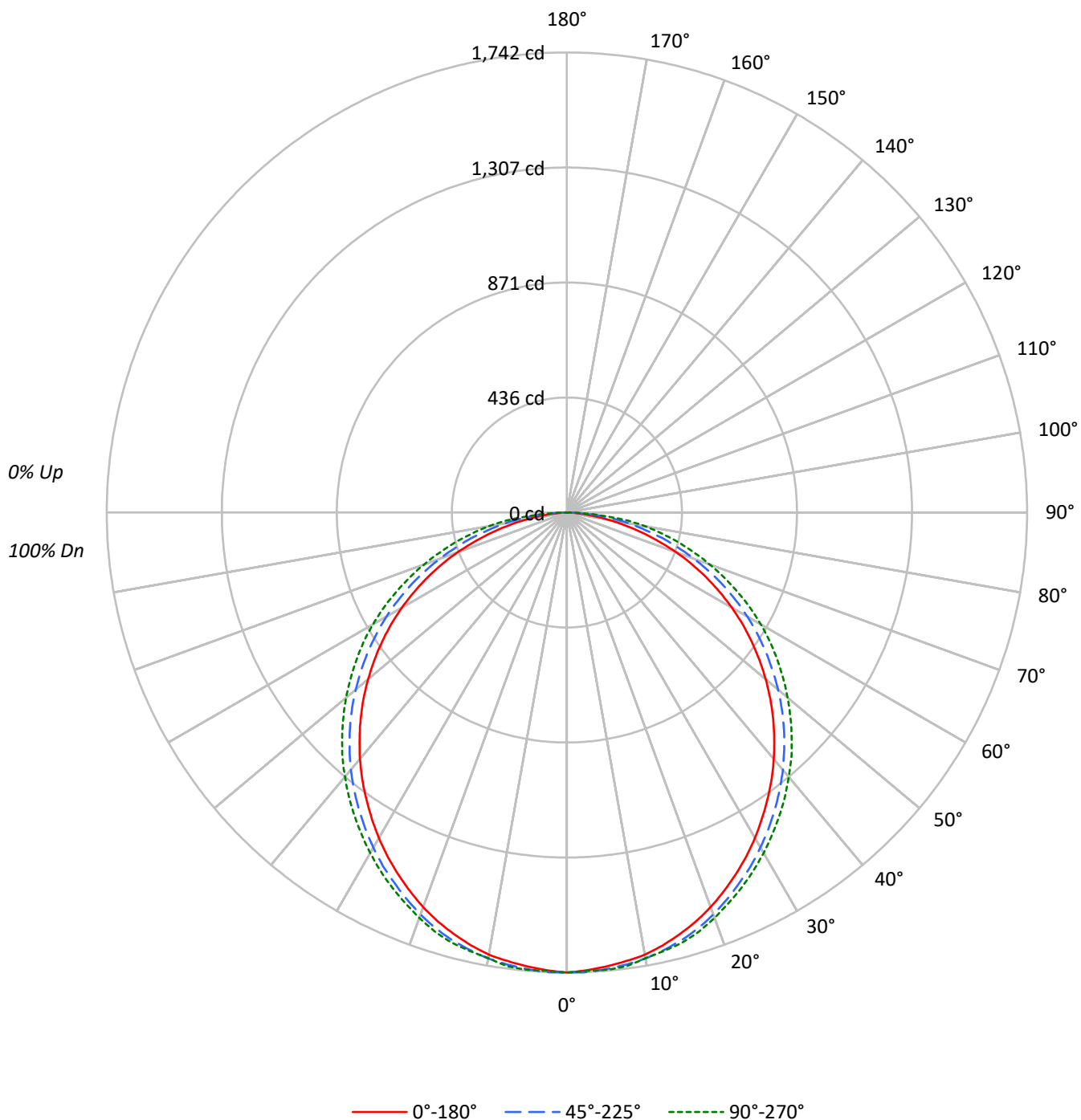
Lumens per Lamp: N/A
Luminaire Lumens: 5067.0 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.2
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	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5454	5454	5454
5°	5424	5455	5465
10°	5407	5452	5448
15°	5357	5435	5467
20°	5299	5398	5445
25°	5224	5344	5412
30°	5147	5297	5384
35°	5063	5246	5359
40°	4981	5200	5342
45°	4890	5146	5329
50°	4784	5082	5315
55°	4666	5017	5308
60°	4519	4942	5311
65°	4313	4838	5282
70°	4032	4690	5269
75°	3574	4510	5288
80°	2909	4285	5444
85°	1879	3956	4699

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5518 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	3.3
10°-20°	472.0	9.3
20°-30°	711.7	14.0
30°-40°	856.4	16.9
40°-50°	893.3	17.6
50°-60°	818.8	16.2
60°-70°	642.9	12.7
70°-80°	391.3	7.7
80°-90°	115.8	2.3
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°	1348.6	26.6
0°-40°	2204.9	43.5
0°-60°	3917.0	77.3
0°-90°	5067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1742	1742	1742	1742	1742	
5°	1726	1736	1735	1733	1739	164
15°	1652	1669	1676	1679	1686	466
25°	1512	1533	1547	1557	1566	697
35°	1324	1345	1372	1392	1402	829
45°	1104	1127	1162	1189	1203	851
55°	855	876	919	956	972	764
65°	582	604	653	696	713	576
75°	295	323	373	418	437	313
85°	52	74	110	123	131	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1741.9	1741.9	1741.9	1741.9	1741.9
2.5°	1735.3	1744.0	1741.9	1734.2	1737.5
5°	1725.5	1736.4	1735.3	1733.1	1738.6
7.5°	1713.5	1725.5	1726.6	1726.6	1733.1
10°	1700.4	1712.4	1714.6	1711.3	1713.5
12.5°	1678.6	1692.8	1697.2	1697.2	1700.4
15°	1652.5	1668.8	1676.5	1678.6	1686.3
17.5°	1624.1	1641.6	1651.4	1656.8	1663.4
20°	1590.3	1608.9	1619.8	1626.3	1633.9
22.5°	1552.2	1572.9	1584.9	1591.4	1600.2
25°	1511.9	1532.6	1546.7	1556.6	1566.4
27.5°	1469.4	1489.0	1508.6	1520.6	1529.3
30°	1423.6	1444.3	1465.0	1480.3	1489.0
32.5°	1374.5	1396.3	1420.3	1436.7	1446.5
35°	1324.4	1345.1	1372.3	1392.0	1401.8
37.5°	1273.1	1294.9	1323.3	1344.0	1356.0
40°	1218.6	1241.5	1272.1	1294.9	1306.9
42.5°	1162.0	1183.8	1217.6	1243.7	1257.9
45°	1104.2	1127.1	1162.0	1189.2	1203.4
47.5°	1044.2	1066.0	1104.2	1135.8	1147.8
50°	982.1	1002.8	1043.2	1076.9	1091.1
52.5°	918.9	940.7	981.0	1017.0	1032.3
55°	854.6	876.4	918.9	956.0	972.3
57.5°	789.2	811.0	854.6	892.7	912.4
60°	721.6	743.4	789.2	828.4	848.0
62.5°	651.8	674.7	721.6	761.9	782.6
65°	582.1	603.9	652.9	696.5	712.9
67.5°	512.3	534.1	582.1	625.7	645.3
70°	440.4	465.4	512.3	558.1	575.5
72.5°	365.2	393.5	440.4	488.3	505.8
75°	295.4	322.6	372.8	417.5	437.1
77.5°	226.7	256.2	303.0	348.8	368.4
80°	161.3	189.7	237.6	281.2	301.9
82.5°	102.5	127.5	175.5	214.7	230.0
85°	52.3	74.1	110.1	123.2	130.8
87.5°	15.3	26.2	39.2	49.1	54.5
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	17.39	19.05	17.76	19.37	19.68	18.13	19.79	18.49	20.10	20.42
	3H	19.16	20.67	19.54	20.99	21.35	20.21	21.71	20.58	22.04	22.40
	4H	19.78	21.20	20.18	21.55	21.92	21.07	22.49	21.47	22.84	23.21
	6H	20.19	21.51	20.60	21.87	22.26	21.82	23.14	22.23	23.50	23.89
	8H	20.29	21.55	20.72	21.94	22.34	22.11	23.37	22.54	23.76	24.16
	12H	20.34	21.55	20.77	21.93	22.36	22.31	23.51	22.74	23.90	24.32
4H	2H	18.16	19.58	18.56	19.93	20.30	18.73	20.15	19.13	20.50	20.87
	3H	20.15	21.35	20.56	21.74	22.14	21.05	22.24	21.46	22.64	23.04
	4H	20.90	21.98	21.33	22.39	22.83	22.06	23.15	22.50	23.56	24.00
	6H	21.42	22.37	21.88	22.81	23.27	22.97	23.92	23.42	24.36	24.81
	8H	21.57	22.46	22.02	22.90	23.36	23.34	24.23	23.80	24.67	25.13
	12H	21.65	22.45	22.13	22.92	23.39	23.59	24.39	24.07	24.87	25.33
8H	4H	21.34	22.23	21.80	22.67	23.14	22.36	23.25	22.82	23.69	24.16
	6H	22.00	22.75	22.50	23.23	23.71	23.42	24.16	23.91	24.65	25.12
	8H	22.21	22.88	22.72	23.38	23.87	23.89	24.56	24.40	25.06	25.55
	12H	22.35	22.94	22.86	23.43	23.99	24.24	24.83	24.75	25.32	25.88
12H	4H	21.42	22.22	21.90	22.70	23.17	22.39	23.19	22.87	23.66	24.13
	6H	22.13	22.80	22.63	23.30	23.78	23.47	24.14	23.98	24.64	25.13
	8H	22.41	22.99	22.91	23.48	24.04	24.01	24.60	24.51	25.09	25.65