

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: P1587737

Luminaire Tested: 22CZSP-SB-49HE-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587737
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-49HE-L840
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

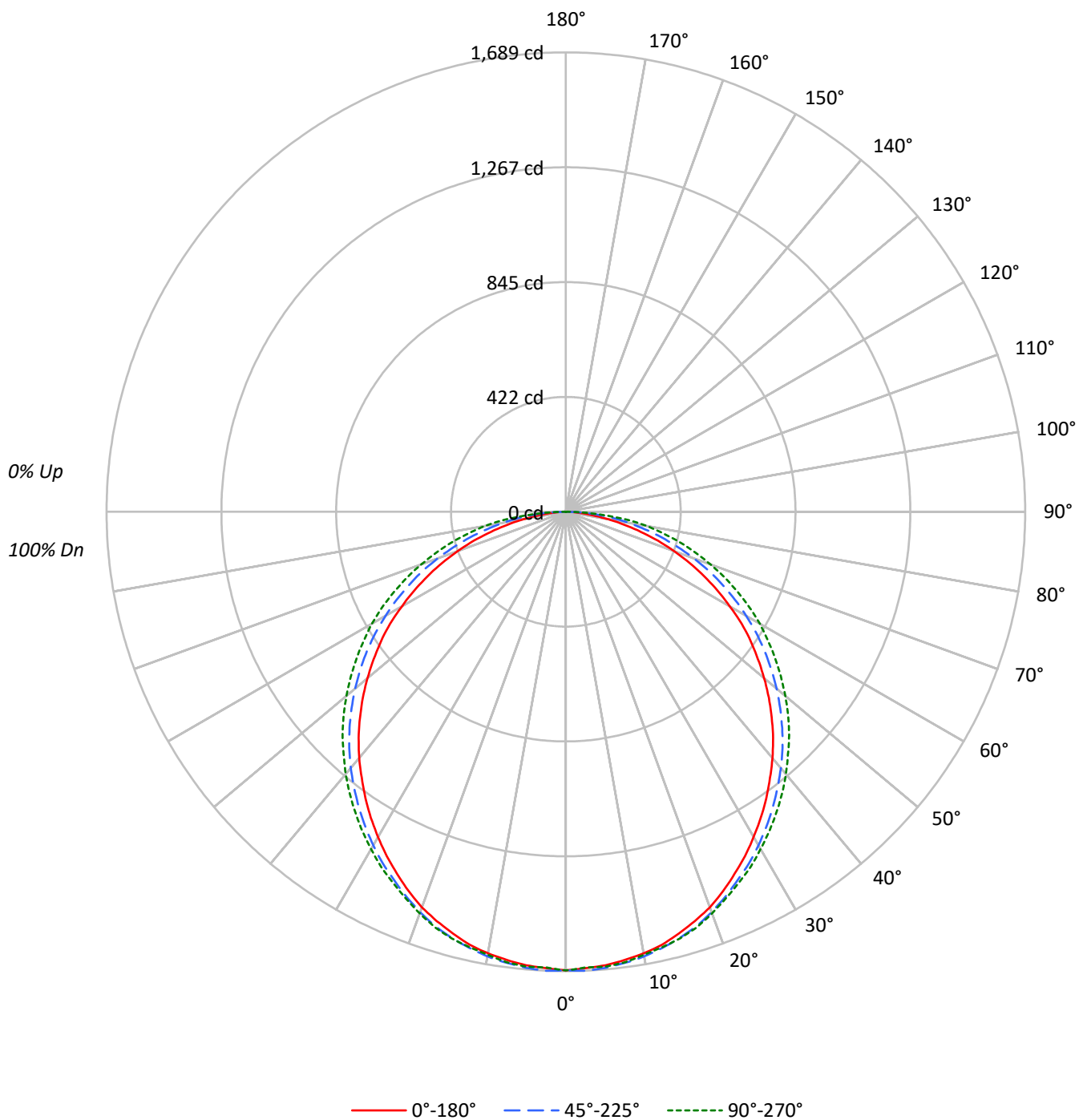
Lumens per Lamp: N/A
Luminaire Lumens: 4921.0 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 32.2
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	93	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	63	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		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	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5280	5280	5280
5°	5261	5290	5277
10°	5242	5279	5259
15°	5203	5257	5264
20°	5157	5220	5237
25°	5074	5164	5200
30°	4994	5122	5178
35°	4913	5072	5160
40°	4832	5028	5147
45°	4741	4981	5143
50°	4638	4927	5130
55°	4532	4873	5129
60°	4364	4801	5159
65°	4160	4707	5163
70°	3881	4577	5177
75°	3453	4410	5268
80°	2837	4225	5466
85°	1872	3966	4940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5597 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	3.2
10°-20°	456.6	9.3
20°-30°	688.2	14.0
30°-40°	828.7	16.8
40°-50°	865.8	17.6
50°-60°	795.4	16.2
60°-70°	626.4	12.7
70°-80°	384.0	7.8
80°-90°	116.4	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°	1304.2	26.5
0°-40°	2133.0	43.3
0°-60°	3794.2	77.1
0°-90°	4921.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4921.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1686	1686	1686	1686	1686	
5°	1674	1677	1683	1681	1679	159
15°	1605	1611	1622	1628	1624	453
25°	1469	1478	1495	1510	1505	677
35°	1285	1302	1327	1351	1350	804
45°	1071	1094	1125	1156	1161	826
55°	830	854	893	931	940	741
65°	561	590	635	678	697	555
75°	285	319	364	408	435	303
85°	52	77	110	123	138	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1686.2	1686.2	1686.2	1686.2	1686.2
2.5°	1680.0	1684.1	1689.4	1681.0	1676.9
5°	1673.7	1676.9	1683.1	1681.0	1678.9
7.5°	1662.3	1664.4	1672.7	1672.7	1670.6
10°	1648.7	1652.9	1660.2	1659.2	1653.9
12.5°	1631.0	1634.2	1642.5	1642.5	1639.4
15°	1605.0	1611.2	1621.7	1627.9	1623.7
17.5°	1577.9	1584.2	1597.7	1603.9	1601.9
20°	1547.7	1552.9	1566.5	1575.8	1571.7
22.5°	1510.2	1516.5	1532.1	1542.5	1538.3
25°	1468.6	1477.9	1494.6	1510.2	1505.0
27.5°	1426.9	1437.3	1458.1	1473.8	1471.7
30°	1381.1	1394.6	1416.5	1436.3	1432.1
32.5°	1334.2	1349.8	1372.7	1393.6	1392.5
35°	1285.2	1301.9	1326.9	1350.9	1349.8
37.5°	1233.2	1253.0	1279.0	1305.0	1306.1
40°	1182.1	1200.9	1230.0	1258.2	1259.2
42.5°	1128.0	1147.8	1179.0	1208.2	1209.2
45°	1070.7	1093.6	1124.8	1156.1	1161.3
47.5°	1012.4	1036.3	1068.6	1101.9	1108.2
50°	952.0	977.0	1011.3	1046.7	1053.0
52.5°	890.5	916.5	952.0	987.4	996.7
55°	830.1	854.1	892.6	931.1	939.5
57.5°	766.6	788.4	830.1	870.7	881.1
60°	696.8	723.9	766.6	807.2	823.8
62.5°	629.1	658.2	702.0	742.6	761.4
65°	561.4	590.5	635.3	678.0	696.8
67.5°	492.6	522.8	570.8	611.4	632.2
70°	423.9	454.1	499.9	543.7	565.5
72.5°	355.2	387.4	432.2	477.0	498.9
75°	285.4	318.7	364.5	408.3	435.4
77.5°	219.8	252.0	297.9	342.7	365.6
80°	157.3	189.6	234.3	279.1	303.1
82.5°	100.0	130.2	173.9	211.4	233.3
85°	52.1	77.1	110.4	122.9	137.5
87.5°	15.6	30.2	42.7	47.9	59.4
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	17.29	18.96	17.66	19.27	19.59	18.04	19.70	18.41	20.02	20.33
	3H	19.06	20.56	19.43	20.89	21.25	20.14	21.64	20.51	21.97	22.33
	4H	19.68	21.10	20.08	21.45	21.83	21.02	22.44	21.42	22.79	23.17
	6H	20.09	21.41	20.50	21.78	22.17	21.79	23.11	22.20	23.47	23.86
	8H	20.20	21.46	20.62	21.85	22.25	22.10	23.36	22.52	23.75	24.15
	12H	20.25	21.46	20.68	21.84	22.27	22.31	23.52	22.74	23.90	24.33
4H	2H	18.06	19.49	18.46	19.83	20.21	18.64	20.07	19.04	20.41	20.79
	3H	20.06	21.26	20.47	21.65	22.05	20.97	22.17	21.38	22.57	22.97
	4H	20.81	21.90	21.24	22.31	22.75	22.01	23.09	22.44	23.51	23.94
	6H	21.35	22.30	21.80	22.74	23.19	22.94	23.89	23.39	24.33	24.78
	8H	21.50	22.39	21.95	22.83	23.29	23.32	24.21	23.78	24.66	25.12
	12H	21.58	22.39	22.06	22.86	23.33	23.60	24.40	24.08	24.88	25.34
8H	4H	21.26	22.16	21.72	22.60	23.06	22.31	23.20	22.77	23.64	24.11
	6H	21.94	22.69	22.43	23.17	23.65	23.39	24.14	23.88	24.62	25.10
	8H	22.16	22.83	22.67	23.34	23.82	23.88	24.55	24.39	25.05	25.54
	12H	22.31	22.90	22.82	23.39	23.95	24.25	24.85	24.76	25.34	25.89
12H	4H	21.35	22.15	21.83	22.63	23.09	22.34	23.14	22.81	23.61	24.08
	6H	22.07	22.74	22.58	23.24	23.73	23.44	24.11	23.95	24.62	25.10
	8H	22.36	22.95	22.87	23.44	24.00	24.00	24.59	24.50	25.08	25.64