

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: P1585756

Luminaire Tested: 14CZSP-SB-52-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-52-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

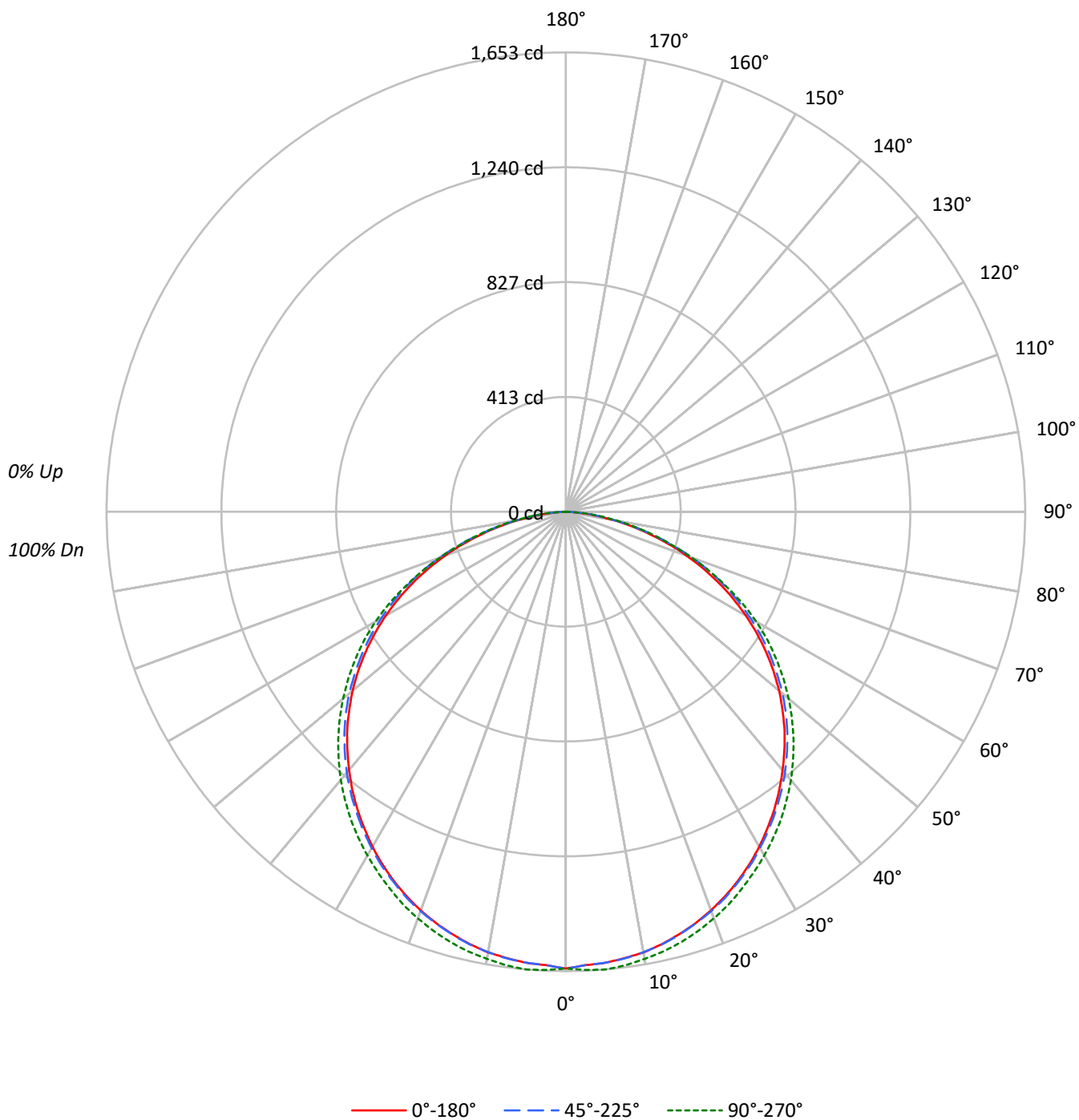
Lumens per Lamp: N/A
Luminaire Lumens: 4850.0 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.9
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	109	104	99	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5538	5538	5538
5°	5511	5509	5592
10°	5509	5506	5590
15°	5492	5497	5593
20°	5475	5486	5584
25°	5448	5462	5566
30°	5415	5438	5557
35°	5380	5413	5554
40°	5338	5393	5544
45°	5305	5372	5521
50°	5252	5333	5485
55°	5170	5266	5432
60°	5045	5175	5335
65°	4856	5039	5092
70°	4565	4778	4749
75°	4100	4274	4303
80°	3386	3559	3747
85°	2269	2641	2784

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5521 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	3.2
10°-20°	447.7	9.2
20°-30°	681.8	14.1
30°-40°	829.8	17.1
40°-50°	874.8	18.0
50°-60°	805.7	16.6
60°-70°	622.3	12.8
70°-80°	348.2	7.2
80°-90°	83.9	1.7
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°	1285.3	26.5
0°-40°	2115.1	43.6
0°-60°	3795.6	78.3
0°-90°	4850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4850.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1644	1644	1644	1644	1644	
5°	1629	1652	1629	1631	1653	155
15°	1574	1596	1576	1585	1603	444
25°	1465	1486	1469	1479	1497	675
35°	1308	1327	1316	1332	1350	818
45°	1113	1129	1127	1144	1158	858
55°	880	895	896	915	925	785
65°	609	627	632	638	639	602
75°	315	334	328	328	330	334
85°	59	65	68	76	72	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1643.5	1643.5	1643.5	1643.5	1643.5
2.5°	1633.1	1656.9	1633.1	1636.8	1650.2
5°	1629.4	1652.4	1628.6	1630.9	1653.1
7.5°	1619.7	1643.5	1621.2	1624.2	1645.7
10°	1610.1	1631.6	1609.3	1613.0	1633.8
12.5°	1593.7	1616.0	1595.2	1599.7	1620.5
15°	1574.4	1596.0	1575.9	1584.8	1603.4
17.5°	1552.1	1572.9	1553.6	1564.0	1581.8
20°	1526.9	1546.9	1529.9	1537.3	1557.3
22.5°	1497.2	1518.0	1501.6	1508.3	1529.9
25°	1465.3	1486.0	1469.0	1478.6	1497.2
27.5°	1430.3	1450.4	1435.5	1447.4	1463.8
30°	1391.7	1411.0	1397.7	1411.8	1428.1
32.5°	1350.1	1370.9	1357.6	1373.9	1390.2
35°	1307.8	1327.1	1316.0	1332.3	1350.1
37.5°	1261.8	1280.3	1272.2	1289.2	1305.6
40°	1213.5	1234.3	1226.1	1243.9	1260.3
42.5°	1163.7	1183.8	1177.1	1195.7	1209.8
45°	1113.2	1128.8	1127.3	1144.4	1158.5
47.5°	1057.5	1076.8	1073.9	1091.0	1103.6
50°	1001.8	1017.4	1017.4	1033.8	1046.4
52.5°	941.7	957.3	957.3	976.6	987.0
55°	880.0	894.9	896.4	914.9	924.6
57.5°	814.7	830.3	833.3	851.8	860.7
60°	748.6	763.4	767.9	786.5	791.7
62.5°	679.5	697.3	699.6	714.4	717.4
65°	609.0	626.8	632.0	637.9	638.7
67.5°	536.9	555.5	560.7	560.7	560.7
70°	463.4	480.5	485.0	482.0	482.0
72.5°	389.1	407.7	405.5	402.5	404.0
75°	314.9	334.2	328.3	327.5	330.5
77.5°	243.6	262.2	252.5	258.4	259.2
80°	174.5	188.6	183.4	192.3	193.1
82.5°	112.1	121.1	122.5	130.0	127.7
85°	58.7	64.6	68.3	76.5	72.0
87.5°	18.6	24.5	22.3	26.0	20.1
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	17.98	19.64	18.35	19.95	20.27	18.20	19.85	18.56	20.17	20.48
	3H	19.80	21.30	20.18	21.63	21.99	20.00	21.50	20.37	21.82	22.18
	4H	20.45	21.86	20.85	22.21	22.58	20.64	22.05	21.03	22.40	22.77
	6H	20.88	22.19	21.29	22.55	22.94	21.09	22.40	21.50	22.76	23.15
	8H	20.99	22.24	21.41	22.63	23.02	21.22	22.47	21.64	22.86	23.26
	12H	21.04	22.24	21.47	22.62	23.05	21.30	22.50	21.73	22.88	23.31
4H	2H	18.66	20.07	19.06	20.42	20.80	18.83	20.24	19.23	20.59	20.96
	3H	20.70	21.89	21.11	22.28	22.68	20.84	22.03	21.25	22.43	22.83
	4H	21.48	22.55	21.91	22.97	23.40	21.60	22.67	22.03	23.09	23.52
	6H	22.03	22.97	22.48	23.41	23.86	22.18	23.11	22.63	23.55	24.01
	8H	22.18	23.05	22.64	23.50	23.96	22.35	23.23	22.81	23.67	24.13
	12H	22.26	23.05	22.74	23.52	23.99	22.46	23.25	22.94	23.73	24.20
8H	4H	21.79	22.67	22.25	23.11	23.57	21.90	22.77	22.36	23.22	23.68
	6H	22.45	23.18	22.94	23.66	24.14	22.58	23.31	23.07	23.79	24.27
	8H	22.65	23.31	23.16	23.81	24.30	22.82	23.47	23.33	23.98	24.46
	12H	22.79	23.37	23.29	23.86	24.42	22.99	23.57	23.50	24.06	24.62
12H	4H	21.82	22.61	22.30	23.08	23.55	21.93	22.71	22.40	23.19	23.66
	6H	22.49	23.15	23.00	23.65	24.14	22.62	23.28	23.13	23.78	24.27
	8H	22.75	23.33	23.26	23.82	24.38	22.91	23.49	23.42	23.98	24.54