

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: P1585733

Luminaire Tested: 14CZSP-SB-49HE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-49HE-L830
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

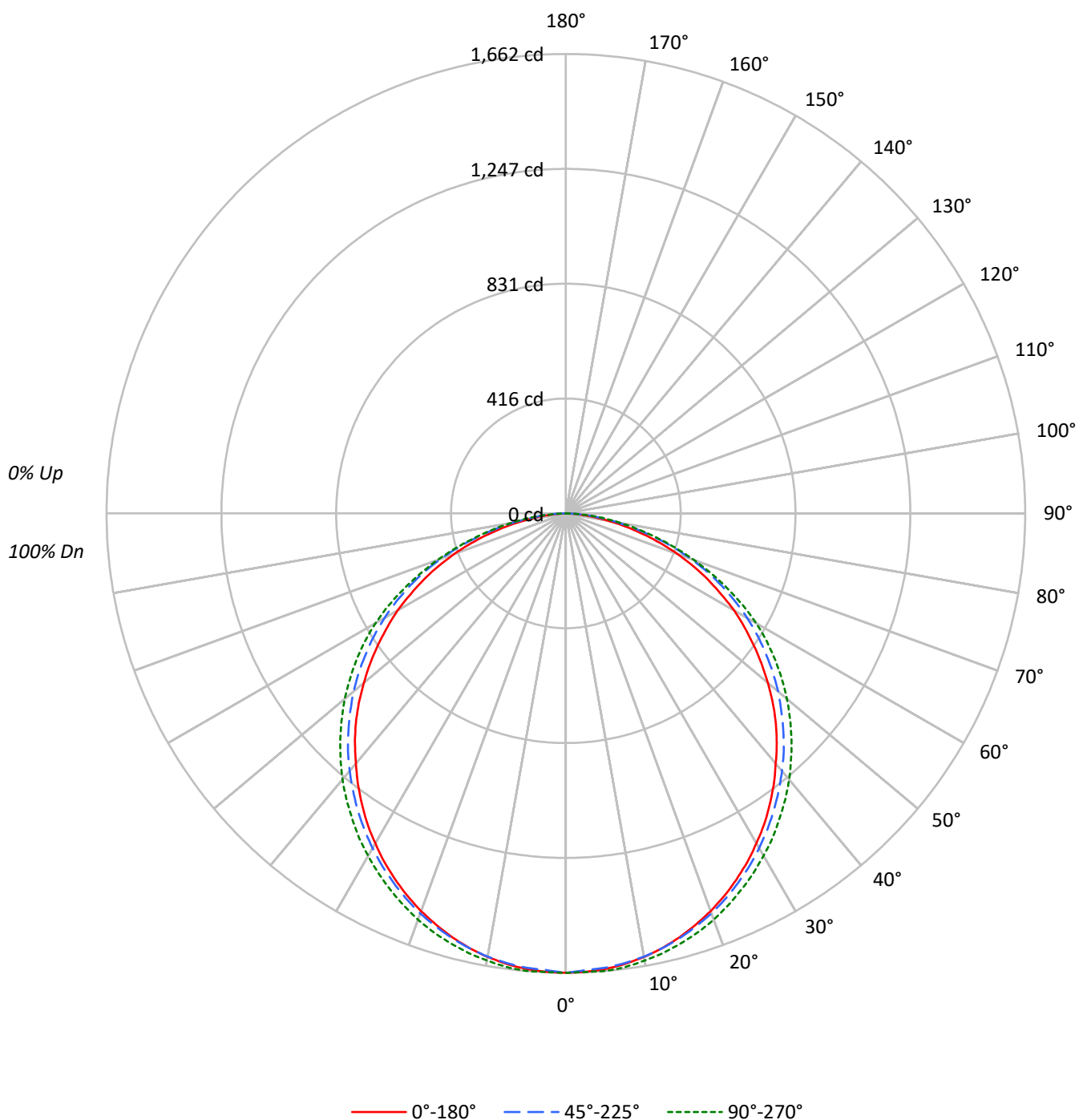
Lumens per Lamp: N/A
Luminaire Lumens: 4802.0 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 33.1
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
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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5601	5601	5601
5°	5597	5582	5620
10°	5576	5571	5621
15°	5540	5552	5617
20°	5491	5524	5608
25°	5432	5483	5586
30°	5364	5442	5566
35°	5290	5398	5545
40°	5197	5352	5531
45°	5122	5304	5502
50°	5000	5254	5475
55°	4872	5185	5433
60°	4741	5109	5361
65°	4528	4974	5156
70°	4226	4750	4866
75°	3764	4304	4430
80°	3074	3732	3920
85°	2034	2969	3182

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5502 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.4	3.3
10°-20°	451.0	9.4
20°-30°	682.7	14.2
30°-40°	824.1	17.2
40°-50°	860.6	17.9
50°-60°	787.3	16.4
60°-70°	608.6	12.7
70°-80°	344.6	7.2
80°-90°	85.6	1.8
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°	1291.1	26.9
0°-40°	2115.2	44.0
0°-60°	3763.2	78.4
0°-90°	4802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1662	1662	1662	1662	1662	
5°	1655	1666	1650	1652	1662	157
15°	1588	1602	1592	1599	1610	448
25°	1461	1480	1475	1489	1502	673
35°	1286	1304	1312	1334	1348	804
45°	1075	1096	1113	1141	1154	828
55°	829	854	883	910	925	742
65°	568	591	624	643	647	561
75°	289	314	331	339	340	307
85°	53	61	77	80	82	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1662.2	1662.2	1662.2	1662.2	1662.2
2.5°	1660.1	1671.9	1653.9	1657.3	1660.8
5°	1654.6	1666.3	1650.4	1651.8	1661.5
7.5°	1644.2	1657.3	1640.7	1643.5	1655.3
10°	1629.7	1642.8	1628.3	1631.0	1642.8
12.5°	1611.0	1624.1	1611.7	1615.8	1629.0
15°	1588.2	1602.0	1591.6	1599.2	1610.3
17.5°	1560.5	1577.8	1566.7	1578.5	1589.5
20°	1531.4	1548.7	1540.4	1550.8	1564.0
22.5°	1498.2	1515.5	1509.3	1520.4	1534.9
25°	1460.9	1479.6	1474.7	1488.6	1502.4
27.5°	1422.2	1440.1	1438.8	1454.0	1468.5
30°	1378.6	1397.9	1398.6	1416.6	1430.5
32.5°	1335.0	1352.3	1356.4	1376.5	1392.4
35°	1285.9	1303.9	1312.2	1334.3	1348.1
37.5°	1236.1	1256.1	1265.1	1289.3	1303.9
40°	1181.4	1204.3	1216.7	1242.3	1257.5
42.5°	1129.6	1150.3	1166.9	1192.5	1206.3
45°	1074.9	1095.7	1113.0	1141.3	1154.5
47.5°	1016.1	1038.9	1057.6	1085.3	1099.8
50°	953.9	978.8	1002.3	1029.3	1044.5
52.5°	892.3	916.5	943.5	969.8	985.0
55°	829.4	854.3	882.6	910.3	924.8
57.5°	765.7	790.6	821.7	846.7	861.9
60°	703.5	726.3	758.1	783.0	795.5
62.5°	632.9	659.2	691.7	716.6	723.5
65°	567.9	591.4	623.9	642.6	646.7
67.5°	498.7	522.2	554.8	565.1	571.4
70°	428.9	453.8	482.1	489.0	493.9
72.5°	358.3	383.9	406.0	412.9	417.1
75°	289.1	314.0	330.6	338.9	340.3
77.5°	222.0	244.9	260.1	269.8	269.8
80°	158.4	175.7	192.3	202.7	202.0
82.5°	101.0	114.1	131.4	139.0	143.9
85°	52.6	60.9	76.8	80.2	82.3
87.5°	16.6	21.4	27.7	22.8	22.1
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	17.67	19.32	18.03	19.63	19.94	18.21	19.86	18.57	20.17	20.49
	3H	19.44	20.93	19.82	21.26	21.62	20.07	21.56	20.44	21.89	22.25
	4H	20.06	21.47	20.46	21.82	22.19	20.74	22.15	21.14	22.49	22.87
	6H	20.47	21.77	20.88	22.14	22.53	21.22	22.53	21.64	22.89	23.28
	8H	20.57	21.82	20.99	22.20	22.60	21.38	22.63	21.81	23.02	23.42
	12H	20.62	21.81	21.05	22.19	22.62	21.48	22.67	21.91	23.06	23.48
4H	2H	18.40	19.81	18.80	20.16	20.54	18.83	20.23	19.22	20.58	20.96
	3H	20.40	21.58	20.81	21.98	22.38	20.91	22.09	21.31	22.48	22.88
	4H	21.15	22.22	21.58	22.63	23.06	21.71	22.78	22.14	23.19	23.62
	6H	21.67	22.60	22.12	23.04	23.49	22.32	23.26	22.77	23.70	24.15
	8H	21.80	22.68	22.26	23.12	23.58	22.52	23.40	22.98	23.84	24.31
	12H	21.88	22.66	22.36	23.14	23.61	22.66	23.45	23.14	23.93	24.39
8H	4H	21.50	22.38	21.96	22.82	23.28	22.00	22.87	22.46	23.31	23.78
	6H	22.13	22.86	22.63	23.35	23.82	22.73	23.46	23.22	23.94	24.42
	8H	22.33	22.98	22.84	23.49	23.97	23.00	23.65	23.51	24.16	24.64
	12H	22.45	23.03	22.96	23.52	24.08	23.21	23.78	23.71	24.27	24.83
12H	4H	21.54	22.33	22.02	22.80	23.27	22.02	22.81	22.50	23.28	23.75
	6H	22.20	22.85	22.71	23.36	23.84	22.77	23.42	23.28	23.93	24.41
	8H	22.45	23.02	22.95	23.51	24.07	23.10	23.67	23.60	24.16	24.72