

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: P1589777

Luminaire Tested: 24CZSP-SB-47-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589777
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: 24CZSP-SB-47-L840
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

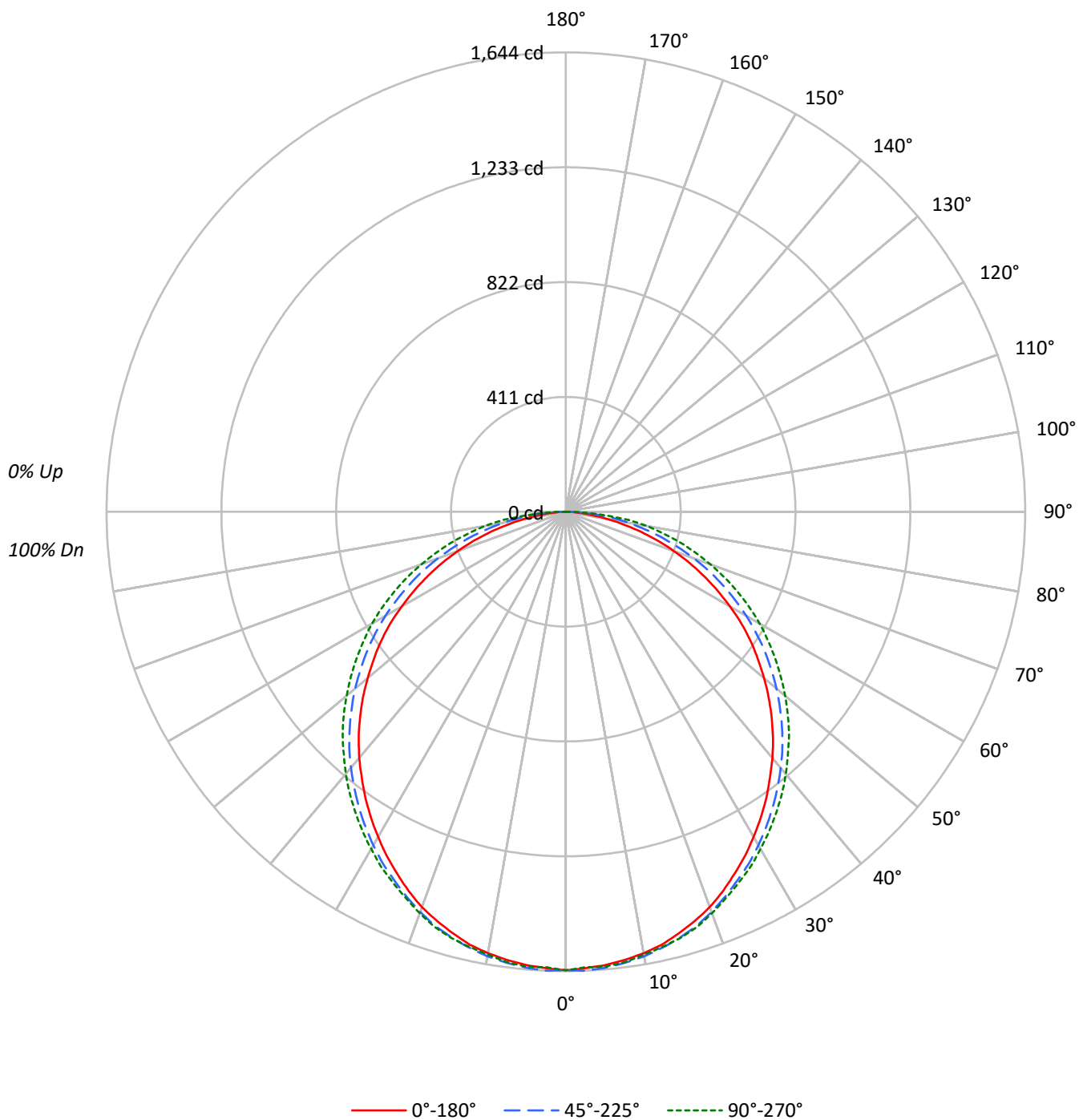
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4788.0 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' 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			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°	2513	2513	2513
5°	2504	2518	2512
10°	2495	2512	2503
15°	2476	2502	2505
20°	2454	2484	2492
25°	2415	2458	2475
30°	2376	2437	2464
35°	2338	2414	2456
40°	2300	2393	2450
45°	2257	2371	2447
50°	2207	2345	2441
55°	2157	2319	2441
60°	2077	2285	2456
65°	1980	2240	2457
70°	1847	2178	2464
75°	1643	2099	2507
80°	1350	2011	2601
85°	891	1887	2351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2664 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	3.2
10°-20°	444.2	9.3
20°-30°	669.6	14.0
30°-40°	806.3	16.8
40°-50°	842.4	17.6
50°-60°	773.9	16.2
60°-70°	609.4	12.7
70°-80°	373.6	7.8
80°-90°	113.3	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°	1269.0	26.5
0°-40°	2075.3	43.3
0°-60°	3691.6	77.1
0°-90°	4788.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4788.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1641	1641	1641	1641	1641	
5°	1628	1632	1638	1636	1634	155
15°	1562	1568	1578	1584	1580	441
25°	1429	1438	1454	1469	1464	659
35°	1250	1267	1291	1314	1313	782
45°	1042	1064	1094	1125	1130	804
55°	808	831	868	906	914	721
65°	546	575	618	660	678	540
75°	278	310	355	397	424	295
85°	51	75	107	120	134	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1640.7	1640.7	1640.7	1640.7	1640.7
2.5°	1634.6	1638.6	1643.7	1635.6	1631.5
5°	1628.5	1631.5	1637.6	1635.6	1633.6
7.5°	1617.3	1619.4	1627.5	1627.5	1625.5
10°	1604.2	1608.2	1615.3	1614.3	1609.2
12.5°	1586.9	1590.0	1598.1	1598.1	1595.1
15°	1561.6	1567.7	1577.8	1583.9	1579.9
17.5°	1535.3	1541.3	1554.5	1560.6	1558.6
20°	1505.9	1510.9	1524.1	1533.2	1529.2
22.5°	1469.4	1475.5	1490.7	1500.8	1496.8
25°	1428.9	1438.0	1454.2	1469.4	1464.3
27.5°	1388.3	1398.5	1418.7	1433.9	1431.9
30°	1343.7	1356.9	1378.2	1397.4	1393.4
32.5°	1298.1	1313.3	1335.6	1355.9	1354.9
35°	1250.5	1266.7	1291.0	1314.3	1313.3
37.5°	1199.8	1219.1	1244.4	1269.8	1270.8
40°	1150.2	1168.4	1196.8	1224.2	1225.2
42.5°	1097.5	1116.7	1147.1	1175.5	1176.5
45°	1041.8	1064.0	1094.4	1124.8	1129.9
47.5°	985.0	1008.3	1039.7	1072.2	1078.2
50°	926.2	950.5	984.0	1018.4	1024.5
52.5°	866.4	891.8	926.2	960.7	969.8
55°	807.7	831.0	868.5	906.0	914.1
57.5°	745.8	767.1	807.7	847.2	857.3
60°	677.9	704.3	745.8	785.4	801.6
62.5°	612.1	640.5	683.0	722.5	740.8
65°	546.2	574.6	618.2	659.7	677.9
67.5°	479.3	508.7	555.3	594.9	615.1
70°	412.4	441.8	486.4	529.0	550.3
72.5°	345.6	377.0	420.6	464.1	485.4
75°	277.7	310.1	354.7	397.2	423.6
77.5°	213.8	245.2	289.8	333.4	355.7
80°	153.0	184.4	228.0	271.6	294.9
82.5°	97.3	126.7	169.2	205.7	227.0
85°	50.7	75.0	107.4	119.6	133.8
87.5°	15.2	29.4	41.5	46.6	57.8
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	14.71	16.38	15.08	16.69	17.01	15.46	17.12	15.83	17.44	17.75
	3H	16.48	17.98	16.85	18.31	18.67	17.56	19.06	17.93	19.39	19.75
	4H	17.10	18.52	17.50	18.87	19.25	18.44	19.86	18.84	20.21	20.59
	6H	17.51	18.83	17.92	19.20	19.59	19.21	20.53	19.62	20.89	21.28
	8H	17.62	18.88	18.04	19.27	19.67	19.52	20.78	19.94	21.17	21.57
	12H	17.67	18.88	18.10	19.26	19.69	19.73	20.94	20.16	21.32	21.75
4H	2H	15.49	16.91	15.88	17.25	17.63	16.06	17.49	16.46	17.83	18.21
	3H	17.48	18.68	17.89	19.07	19.47	18.39	19.59	18.80	19.99	20.39
	4H	18.23	19.32	18.66	19.73	20.17	19.43	20.51	19.86	20.93	21.36
	6H	18.77	19.72	19.22	20.16	20.61	20.36	21.31	20.81	21.75	22.20
	8H	18.92	19.81	19.37	20.25	20.71	20.74	21.63	21.20	22.08	22.54
	12H	19.00	19.81	19.48	20.28	20.75	21.02	21.82	21.50	22.30	22.76
8H	4H	18.68	19.58	19.14	20.02	20.48	19.73	20.62	20.19	21.06	21.53
	6H	19.36	20.11	19.85	20.59	21.07	20.81	21.56	21.30	22.04	22.52
	8H	19.58	20.25	20.09	20.76	21.24	21.30	21.97	21.81	22.47	22.96
	12H	19.73	20.32	20.24	20.81	21.37	21.67	22.27	22.18	22.76	23.31
12H	4H	18.77	19.57	19.25	20.05	20.51	19.76	20.56	20.23	21.03	21.50
	6H	19.49	20.16	20.00	20.66	21.15	20.86	21.53	21.37	22.04	22.52
	8H	19.78	20.37	20.29	20.86	21.42	21.42	22.01	21.92	22.50	23.06