

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: P1589774

Luminaire Tested: 24CZSP-SB-47-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589774
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: 24CZSP-SB-47-L835-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

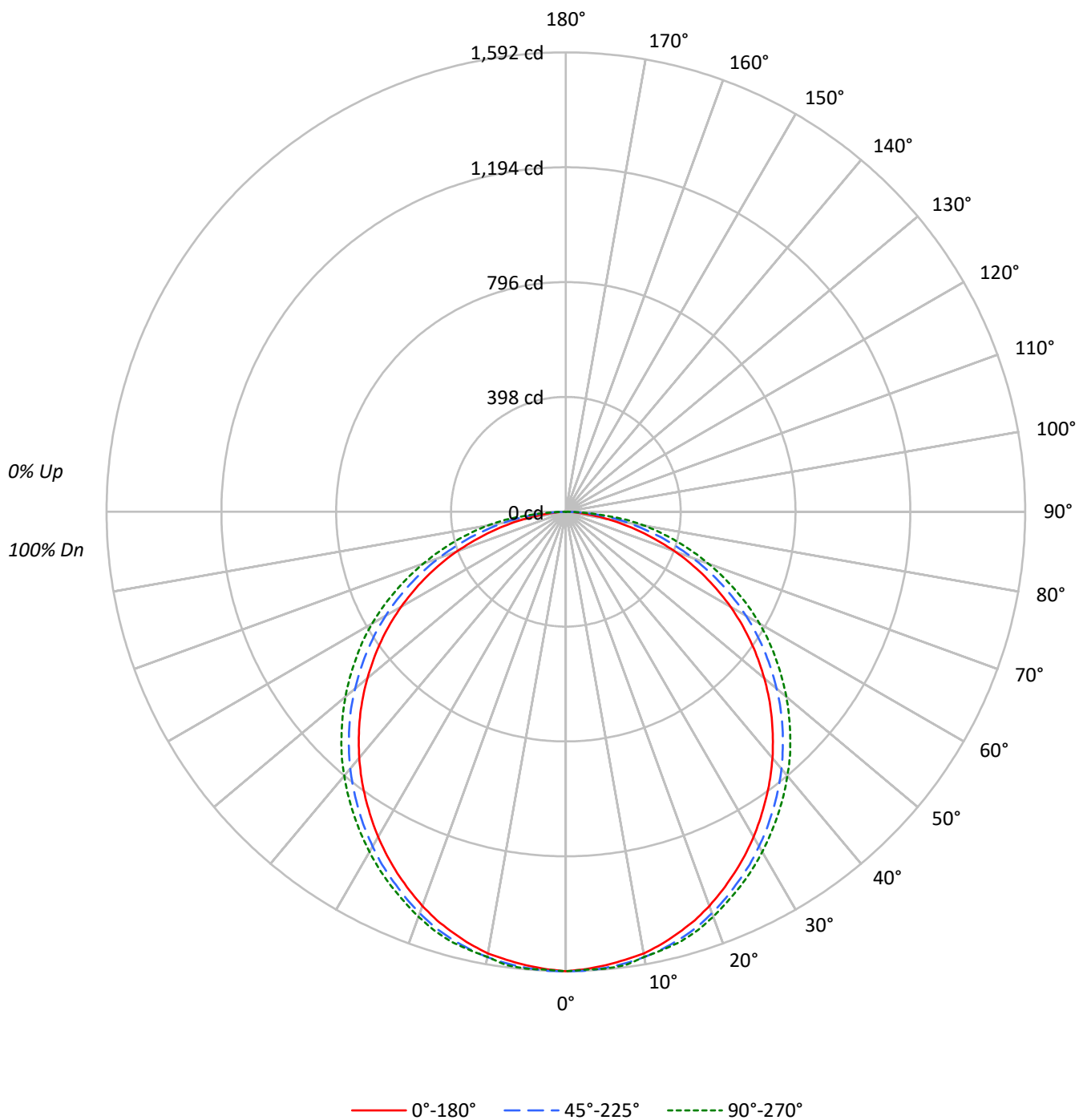
Lumens per Lamp: N/A
Luminaire Lumens: 4632.0 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	94	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	69		
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58		
4	82	70	61	54	79	68	60	53	66	58	53	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	45	39	50	44	39	37		
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33		
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29		
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	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°	2439	2439	2439
5°	2425	2439	2444
10°	2418	2438	2436
15°	2395	2430	2444
20°	2370	2413	2435
25°	2336	2390	2420
30°	2302	2368	2407
35°	2264	2346	2396
40°	2227	2325	2389
45°	2186	2301	2383
50°	2139	2272	2377
55°	2086	2243	2373
60°	2021	2210	2375
65°	1928	2163	2362
70°	1803	2097	2356
75°	1598	2017	2365
80°	1301	1916	2434
85°	840	1768	2102

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2468 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	3.3
10°-20°	431.5	9.3
20°-30°	650.6	14.0
30°-40°	782.8	16.9
40°-50°	816.6	17.6
50°-60°	748.5	16.2
60°-70°	587.7	12.7
70°-80°	357.7	7.7
80°-90°	105.8	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°	1232.8	26.6
0°-40°	2015.7	43.5
0°-60°	3580.7	77.3
0°-90°	4632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1592	1592	1592	1592	1592	
5°	1577	1587	1586	1584	1589	150
15°	1511	1526	1532	1534	1542	426
25°	1382	1401	1414	1423	1432	637
35°	1211	1230	1254	1272	1281	758
45°	1009	1030	1062	1087	1100	778
55°	781	801	840	874	889	698
65°	532	552	597	637	652	526
75°	270	295	341	382	400	286
85°	48	68	101	113	120	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1592.3	1592.3	1592.3	1592.3	1592.3
2.5°	1586.3	1594.3	1592.3	1585.3	1588.3
5°	1577.4	1587.3	1586.3	1584.3	1589.3
7.5°	1566.4	1577.4	1578.4	1578.4	1584.3
10°	1554.5	1565.4	1567.4	1564.4	1566.4
12.5°	1534.5	1547.5	1551.5	1551.5	1554.5
15°	1510.6	1525.6	1532.5	1534.5	1541.5
17.5°	1484.7	1500.6	1509.6	1514.6	1520.6
20°	1453.8	1470.8	1480.7	1486.7	1493.7
22.5°	1418.9	1437.9	1448.8	1454.8	1462.8
25°	1382.1	1401.0	1414.0	1422.9	1431.9
27.5°	1343.2	1361.1	1379.1	1390.0	1398.0
30°	1301.4	1320.3	1339.2	1353.2	1361.1
32.5°	1256.5	1276.4	1298.4	1313.3	1322.3
35°	1210.7	1229.6	1254.5	1272.5	1281.4
37.5°	1163.8	1183.8	1209.7	1228.6	1239.6
40°	1114.0	1135.0	1162.9	1183.8	1194.7
42.5°	1062.2	1082.1	1113.0	1136.9	1149.9
45°	1009.4	1030.3	1062.2	1087.1	1100.1
47.5°	954.6	974.5	1009.4	1038.3	1049.3
50°	897.8	916.7	953.6	984.5	997.4
52.5°	840.0	859.9	896.8	929.7	943.6
55°	781.2	801.1	840.0	873.9	888.8
57.5°	721.4	741.4	781.2	816.1	834.0
60°	659.6	679.6	721.4	757.3	775.2
62.5°	595.9	616.8	659.6	696.5	715.4
65°	532.1	552.0	596.9	636.7	651.7
67.5°	468.3	488.3	532.1	572.0	589.9
70°	402.6	425.5	468.3	510.2	526.1
72.5°	333.8	359.7	402.6	446.4	462.4
75°	270.0	294.9	340.8	381.6	399.6
77.5°	207.3	234.2	277.0	318.9	336.8
80°	147.5	173.4	217.2	257.1	276.0
82.5°	93.7	116.6	160.4	196.3	210.3
85°	47.8	67.8	100.6	112.6	119.6
87.5°	14.0	23.9	35.9	44.8	49.8
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	14.60	16.26	14.96	16.57	16.89	15.33	16.99	15.70	17.31	17.62
	3H	16.37	17.87	16.74	18.20	18.56	17.41	18.92	17.79	19.24	19.60
	4H	16.98	18.40	17.38	18.75	19.13	18.28	19.70	18.67	20.04	20.42
	6H	17.39	18.71	17.80	19.08	19.47	19.02	20.34	19.43	20.70	21.09
	8H	17.50	18.76	17.92	19.15	19.54	19.32	20.58	19.74	20.97	21.36
	12H	17.55	18.75	17.97	19.13	19.56	19.51	20.72	19.94	21.10	21.53
4H	2H	15.37	16.79	15.76	17.13	17.51	15.94	17.36	16.33	17.70	18.08
	3H	17.36	18.55	17.77	18.95	19.35	18.25	19.45	18.66	19.84	20.24
	4H	18.10	19.18	18.53	19.60	20.03	19.27	20.35	19.70	20.76	21.20
	6H	18.63	19.58	19.08	20.02	20.47	20.17	21.12	20.63	21.56	22.02
	8H	18.77	19.66	19.23	20.10	20.56	20.54	21.43	21.00	21.87	22.34
	12H	18.85	19.65	19.33	20.13	20.59	20.79	21.60	21.27	22.07	22.54
8H	4H	18.54	19.43	19.00	19.88	20.34	19.57	20.46	20.02	20.90	21.36
	6H	19.21	19.95	19.70	20.44	20.91	20.62	21.37	21.12	21.85	22.33
	8H	19.42	20.08	19.92	20.59	21.07	21.10	21.76	21.60	22.27	22.75
	12H	19.55	20.14	20.06	20.63	21.19	21.45	22.04	21.95	22.53	23.09
12H	4H	18.63	19.43	19.10	19.90	20.37	19.59	20.39	20.07	20.87	21.34
	6H	19.33	20.00	19.84	20.50	20.99	20.67	21.34	21.18	21.85	22.33
	8H	19.61	20.20	20.11	20.69	21.25	21.21	21.80	21.72	22.29	22.85