

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: P1589724

Luminaire Tested: 24CZSP-SB-37HE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589724
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-37HE-L935-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

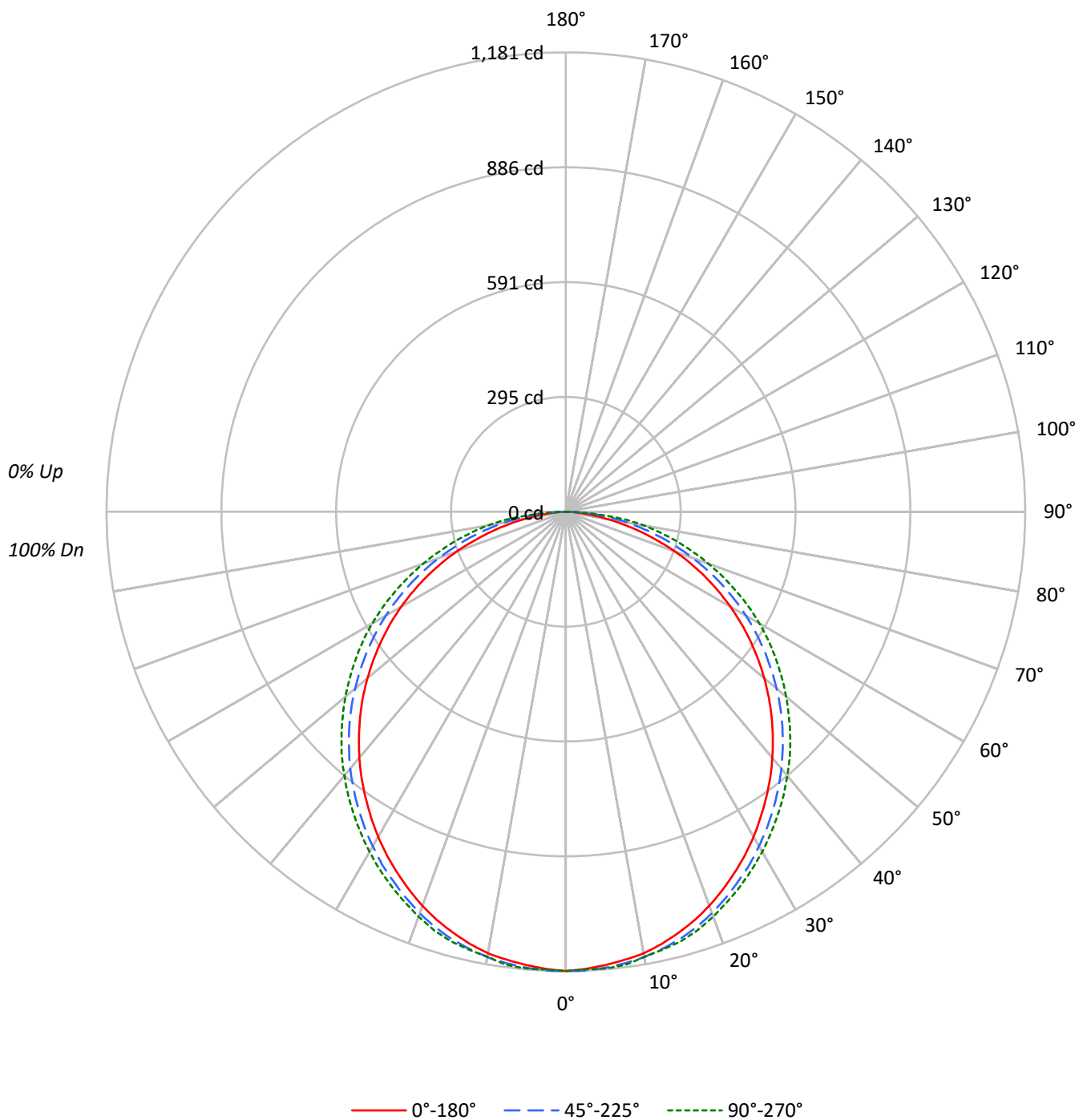
Lumens per Lamp: N/A
Luminaire Lumens: 3435.0 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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	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°	1809	1809	1809
5°	1798	1809	1812
10°	1793	1808	1807
15°	1776	1802	1813
20°	1757	1790	1805
25°	1732	1772	1795
30°	1707	1756	1785
35°	1679	1739	1777
40°	1652	1724	1771
45°	1622	1706	1767
50°	1586	1685	1763
55°	1547	1663	1760
60°	1499	1639	1761
65°	1430	1604	1752
70°	1337	1555	1747
75°	1185	1495	1753
80°	965	1421	1806
85°	624	1311	1559

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 1829 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	3.3
10°-20°	320.0	9.3
20°-30°	482.5	14.0
30°-40°	580.5	16.9
40°-50°	605.6	17.6
50°-60°	555.1	16.2
60°-70°	435.9	12.7
70°-80°	265.3	7.7
80°-90°	78.5	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°	914.2	26.6
0°-40°	1494.8	43.5
0°-60°	2655.4	77.3
0°-90°	3435.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3435.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1170	1177	1176	1175	1179	111
15°	1120	1131	1136	1138	1143	316
25°	1025	1039	1049	1055	1062	472
35°	898	912	930	944	950	562
45°	749	764	788	806	816	577
55°	579	594	623	648	659	518
65°	395	409	443	472	483	390
75°	200	219	253	283	296	212
85°	36	50	75	84	89	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1180.8	1180.8	1180.8	1180.8	1180.8
2.5°	1176.4	1182.3	1180.8	1175.7	1177.9
5°	1169.7	1177.1	1176.4	1174.9	1178.6
7.5°	1161.6	1169.7	1170.5	1170.5	1174.9
10°	1152.8	1160.9	1162.4	1160.1	1161.6
12.5°	1138.0	1147.6	1150.5	1150.5	1152.8
15°	1120.2	1131.3	1136.5	1138.0	1143.1
17.5°	1101.0	1112.9	1119.5	1123.2	1127.6
20°	1078.1	1090.7	1098.1	1102.5	1107.7
22.5°	1052.3	1066.3	1074.4	1078.9	1084.8
25°	1024.9	1039.0	1048.6	1055.2	1061.9
27.5°	996.1	1009.4	1022.7	1030.8	1036.7
30°	965.1	979.1	993.1	1003.5	1009.4
32.5°	931.8	946.6	962.8	973.9	980.6
35°	897.8	911.9	930.3	943.6	950.3
37.5°	863.1	877.9	897.1	911.1	919.2
40°	826.1	841.7	862.3	877.9	886.0
42.5°	787.7	802.5	825.4	843.1	852.7
45°	748.6	764.1	787.7	806.2	815.8
47.5°	707.9	722.7	748.6	770.0	778.1
50°	665.8	679.8	707.2	730.1	739.7
52.5°	622.9	637.7	665.1	689.4	699.8
55°	579.3	594.1	622.9	648.1	659.1
57.5°	535.0	549.8	579.3	605.2	618.5
60°	489.2	504.0	535.0	561.6	574.9
62.5°	441.9	457.4	489.2	516.5	530.6
65°	394.6	409.4	442.6	472.2	483.3
67.5°	347.3	362.1	394.6	424.2	437.5
70°	298.5	315.5	347.3	378.3	390.2
72.5°	247.5	266.8	298.5	331.0	342.9
75°	200.3	218.7	252.7	283.0	296.3
77.5°	153.7	173.7	205.4	236.5	249.8
80°	109.4	128.6	161.1	190.6	204.7
82.5°	69.5	86.5	119.0	145.6	155.9
85°	35.5	50.2	74.6	83.5	88.7
87.5°	10.3	17.7	26.6	33.3	36.9
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	13.56	15.22	13.92	15.53	15.85	14.29	15.95	14.66	16.27	16.58
	3H	15.33	16.83	15.70	17.16	17.52	16.37	17.88	16.75	18.20	18.56
	4H	15.95	17.37	16.34	17.71	18.09	17.24	18.66	17.64	19.00	19.38
	6H	16.35	17.67	16.77	18.04	18.43	17.98	19.30	18.39	19.66	20.05
	8H	16.46	17.72	16.88	18.11	18.50	18.28	19.54	18.70	19.93	20.32
	12H	16.51	17.71	16.94	18.10	18.52	18.47	19.68	18.90	20.06	20.49
4H	2H	14.33	15.75	14.72	16.09	16.47	14.90	16.32	15.30	16.66	17.04
	3H	16.32	17.51	16.73	17.91	18.31	17.21	18.41	17.62	18.80	19.20
	4H	17.06	18.14	17.49	18.56	18.99	18.23	19.31	18.66	19.73	20.16
	6H	17.59	18.54	18.04	18.98	19.43	19.14	20.08	19.59	20.52	20.98
	8H	17.73	18.62	18.19	19.06	19.53	19.50	20.39	19.96	20.83	21.30
	12H	17.81	18.61	18.29	19.09	19.56	19.76	20.56	20.23	21.03	21.50
8H	4H	17.51	18.40	17.96	18.84	19.30	18.53	19.42	18.99	19.86	20.32
	6H	18.17	18.91	18.66	19.40	19.87	19.58	20.33	20.08	20.81	21.29
	8H	18.38	19.04	18.89	19.55	20.03	20.06	20.72	20.56	21.23	21.71
	12H	18.52	19.10	19.02	19.59	20.15	20.41	21.00	20.91	21.49	22.05
12H	4H	17.59	18.39	18.07	18.86	19.33	18.55	19.35	19.03	19.83	20.30
	6H	18.29	18.96	18.80	19.47	19.95	19.64	20.30	20.14	20.81	21.29
	8H	18.57	19.16	19.08	19.65	20.21	20.17	20.76	20.68	21.25	21.81