

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: P1589723

Luminaire Tested: 24CZSP-SB-37HE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589723
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-37HE-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

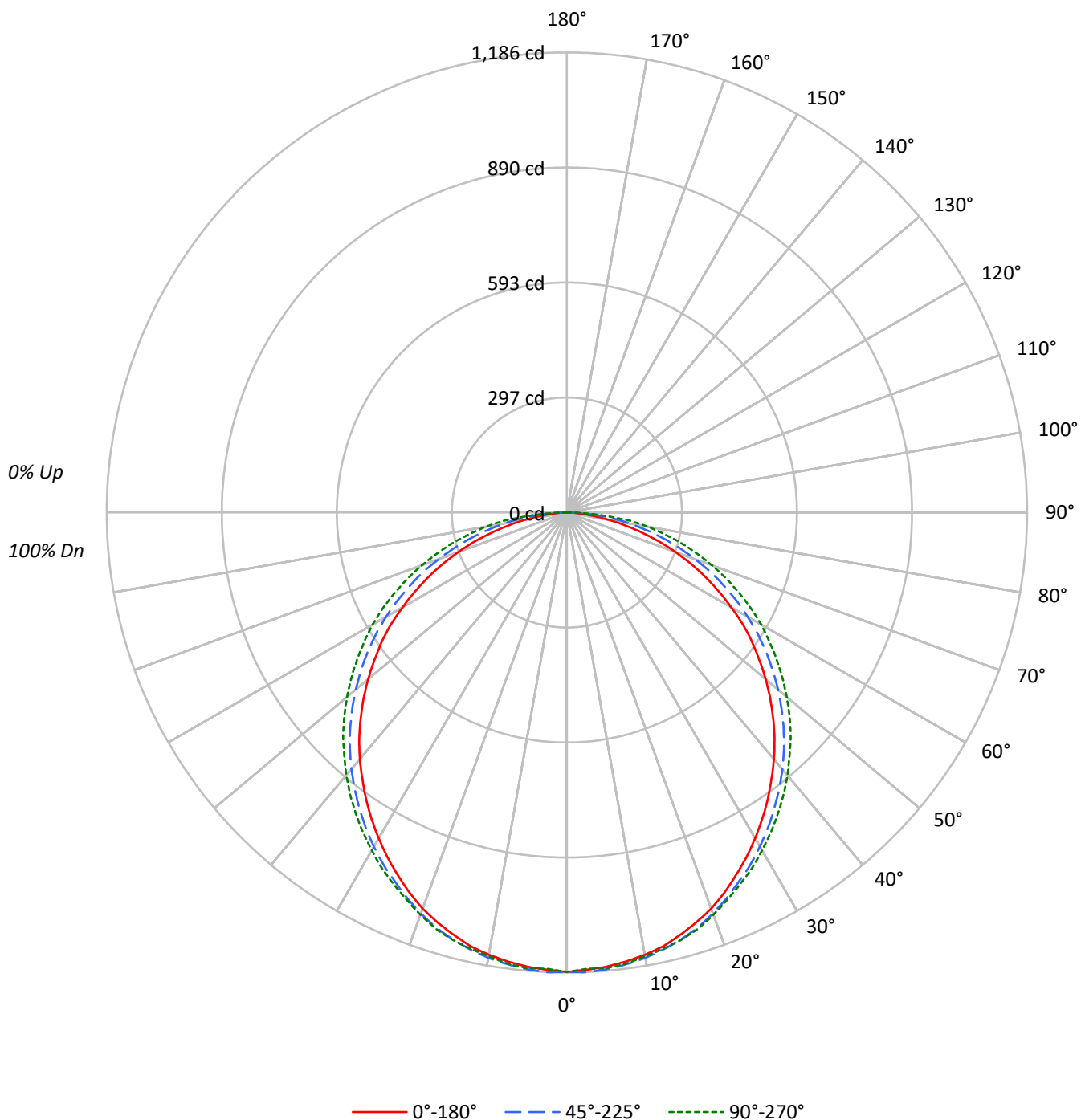
Lumens per Lamp: N/A
Luminaire Lumens: 3456.0 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	1814	1814	1814
5°	1807	1817	1813
10°	1801	1813	1807
15°	1787	1806	1808
20°	1772	1793	1799
25°	1743	1774	1786
30°	1715	1759	1779
35°	1688	1742	1773
40°	1660	1727	1768
45°	1629	1711	1767
50°	1593	1692	1762
55°	1557	1674	1762
60°	1499	1649	1772
65°	1429	1617	1773
70°	1333	1572	1779
75°	1186	1515	1810
80°	975	1452	1878
85°	643	1362	1698

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 1922 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	3.2
10°-20°	320.6	9.3
20°-30°	483.3	14.0
30°-40°	582.0	16.8
40°-50°	608.0	17.6
50°-60°	558.6	16.2
60°-70°	439.9	12.7
70°-80°	269.7	7.8
80°-90°	81.8	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°	916.0	26.5
0°-40°	1498.0	43.3
0°-60°	2664.6	77.1
0°-90°	3456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1184	1184	1184	1184	1184	
5°	1176	1178	1182	1181	1179	112
15°	1127	1132	1139	1143	1140	318
25°	1031	1038	1050	1061	1057	475
35°	903	914	932	949	948	565
45°	752	768	790	812	816	580
55°	583	600	627	654	660	520
65°	394	415	446	476	489	390
75°	200	224	256	287	306	213
85°	37	54	78	86	97	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1184.2	1184.2	1184.2	1184.2	1184.2
2.5°	1179.8	1182.8	1186.4	1180.6	1177.6
5°	1175.5	1177.6	1182.0	1180.6	1179.1
7.5°	1167.4	1168.9	1174.7	1174.7	1173.3
10°	1157.9	1160.8	1165.9	1165.2	1161.6
12.5°	1145.5	1147.7	1153.5	1153.5	1151.3
15°	1127.2	1131.6	1138.9	1143.3	1140.3
17.5°	1108.2	1112.5	1122.1	1126.4	1125.0
20°	1086.9	1090.6	1100.1	1106.7	1103.8
22.5°	1060.6	1065.0	1076.0	1083.3	1080.4
25°	1031.4	1037.9	1049.6	1060.6	1057.0
27.5°	1002.1	1009.4	1024.0	1035.0	1033.6
30°	969.9	979.4	994.8	1008.7	1005.8
32.5°	937.0	948.0	964.1	978.7	978.0
35°	902.6	914.3	931.9	948.7	948.0
37.5°	866.0	879.9	898.2	916.5	917.3
40°	830.2	843.4	863.9	883.6	884.3
42.5°	792.2	806.1	828.0	848.5	849.2
45°	751.9	768.0	790.0	811.9	815.6
47.5°	711.0	727.8	750.5	773.9	778.3
50°	668.6	686.1	710.2	735.1	739.5
52.5°	625.4	643.7	668.6	693.4	700.0
55°	583.0	599.8	626.9	653.9	659.8
57.5°	538.4	553.7	583.0	611.5	618.8
60°	489.3	508.4	538.4	566.9	578.6
62.5°	441.8	462.3	493.0	521.5	534.7
65°	394.3	414.7	446.2	476.2	489.3
67.5°	346.0	367.2	400.8	429.4	444.0
70°	297.7	318.9	351.1	381.8	397.2
72.5°	249.4	272.1	303.6	335.0	350.4
75°	200.4	223.8	256.0	286.7	305.8
77.5°	154.3	177.0	209.2	240.7	256.7
80°	110.5	133.1	164.6	196.0	212.9
82.5°	70.2	91.4	122.2	148.5	163.8
85°	36.6	54.1	77.5	86.3	96.6
87.5°	11.0	21.2	30.0	33.6	41.7
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	13.58	15.24	13.95	15.56	15.87	14.33	15.99	14.69	16.31	16.62
	3H	15.34	16.85	15.72	17.18	17.54	16.42	17.93	16.80	18.26	18.62
	4H	15.97	17.39	16.37	17.74	18.11	17.31	18.73	17.71	19.08	19.45
	6H	16.38	17.70	16.79	18.07	18.46	18.08	19.40	18.49	19.76	20.15
	8H	16.49	17.75	16.91	18.14	18.54	18.39	19.65	18.81	20.04	20.44
	12H	16.54	17.75	16.97	18.13	18.56	18.60	19.81	19.03	20.19	20.62
4H	2H	14.35	15.78	14.75	16.12	16.50	14.93	16.35	15.33	16.70	17.08
	3H	16.35	17.54	16.75	17.94	18.34	17.26	18.46	17.67	18.86	19.25
	4H	17.10	18.19	17.53	18.60	19.03	18.30	19.38	18.73	19.79	20.23
	6H	17.64	18.59	18.09	19.03	19.48	19.23	20.18	19.68	20.62	21.07
	8H	17.78	18.68	18.24	19.12	19.58	19.61	20.50	20.07	20.94	21.41
	12H	17.87	18.67	18.35	19.15	19.62	19.89	20.69	20.36	21.16	21.63
8H	4H	17.55	18.44	18.01	18.89	19.35	18.60	19.49	19.05	19.93	20.39
	6H	18.23	18.97	18.72	19.46	19.93	19.68	20.42	20.17	20.91	21.38
	8H	18.45	19.12	18.96	19.62	20.11	20.17	20.84	20.67	21.34	21.83
	12H	18.60	19.19	19.10	19.68	20.24	20.54	21.13	21.05	21.62	22.18
12H	4H	17.64	18.44	18.11	18.91	19.38	18.62	19.43	19.10	19.90	20.37
	6H	18.36	19.03	18.86	19.53	20.02	19.73	20.40	20.24	20.91	21.39
	8H	18.65	19.24	19.15	19.73	20.29	20.29	20.88	20.79	21.37	21.93