

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: P1589731

Luminaire Tested: 24CZSP-SB-37HE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589731
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-L950
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

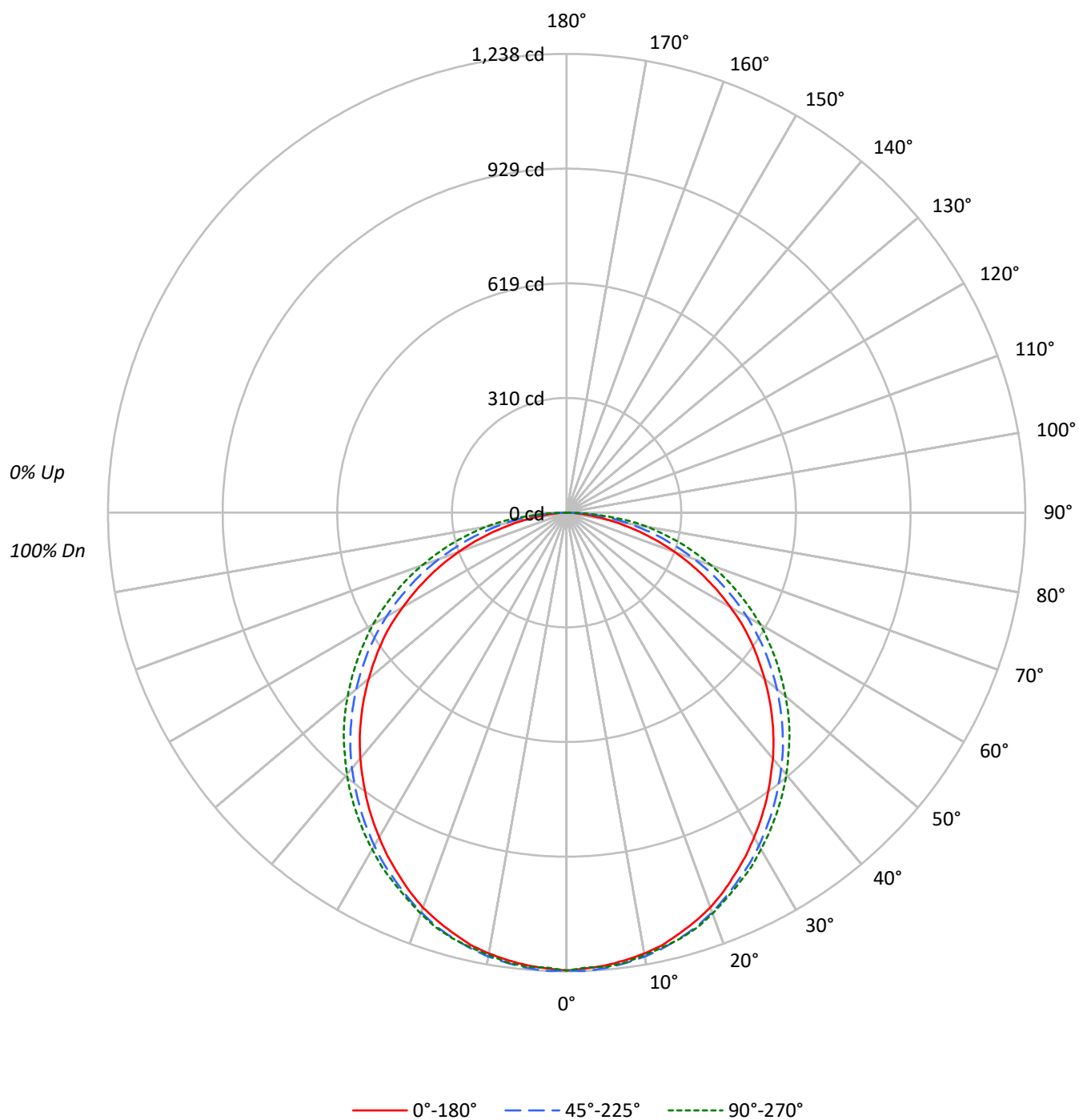
Lumens per Lamp: N/A
Luminaire Lumens: 3606.0 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1892	1892	1892
5°	1886	1896	1892
10°	1879	1892	1885
15°	1865	1884	1887
20°	1848	1871	1877
25°	1819	1851	1864
30°	1790	1836	1856
35°	1761	1818	1849
40°	1732	1802	1845
45°	1699	1785	1843
50°	1662	1766	1839
55°	1624	1747	1838
60°	1564	1721	1849
65°	1491	1687	1850
70°	1391	1640	1856
75°	1237	1581	1888
80°	1016	1514	1959
85°	671	1422	1770

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2007 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	3.2
10°-20°	334.6	9.3
20°-30°	504.3	14.0
30°-40°	607.3	16.8
40°-50°	634.4	17.6
50°-60°	582.9	16.2
60°-70°	459.0	12.7
70°-80°	281.4	7.8
80°-90°	85.3	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°	955.7	26.5
0°-40°	1563.0	43.3
0°-60°	2780.3	77.1
0°-90°	3606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1236	1236	1236	1236	1236	
5°	1226	1229	1233	1232	1230	116
15°	1176	1181	1188	1193	1190	332
25°	1076	1083	1095	1107	1103	496
35°	942	954	972	990	989	589
45°	785	801	824	847	851	605
55°	608	626	654	682	688	543
65°	411	433	466	497	511	407
75°	209	234	267	299	319	222
85°	38	56	81	90	101	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1235.6	1235.6	1235.6	1235.6	1235.6
2.5°	1231.1	1234.1	1237.9	1231.8	1228.8
5°	1226.5	1228.8	1233.3	1231.8	1230.3
7.5°	1218.1	1219.6	1225.7	1225.7	1224.2
10°	1208.2	1211.2	1216.6	1215.8	1212.0
12.5°	1195.2	1197.5	1203.6	1203.6	1201.3
15°	1176.1	1180.7	1188.3	1192.9	1189.8
17.5°	1156.3	1160.8	1170.8	1175.3	1173.8
20°	1134.1	1137.9	1147.9	1154.7	1151.7
22.5°	1106.6	1111.2	1122.7	1130.3	1127.3
25°	1076.1	1083.0	1095.2	1106.6	1102.8
27.5°	1045.6	1053.2	1068.5	1079.9	1078.4
30°	1012.0	1021.9	1038.0	1052.5	1049.4
32.5°	977.7	989.1	1005.9	1021.2	1020.4
35°	941.8	954.0	972.3	989.9	989.1
37.5°	903.6	918.1	937.2	956.3	957.1
40°	866.2	880.0	901.3	922.0	922.7
42.5°	826.6	841.1	864.0	885.3	886.1
45°	784.6	801.4	824.3	847.2	851.0
47.5°	741.8	759.4	783.1	807.5	812.1
50°	697.6	715.9	741.1	767.0	771.6
52.5°	652.5	671.6	697.6	723.5	730.4
55°	608.3	625.8	654.1	682.3	688.4
57.5°	561.7	577.7	608.3	638.0	645.7
60°	510.6	530.4	561.7	591.5	603.7
62.5°	461.0	482.3	514.4	544.2	557.9
65°	411.4	432.7	465.6	496.8	510.6
67.5°	361.0	383.1	418.2	448.0	463.3
70°	310.6	332.8	366.3	398.4	414.4
72.5°	260.3	283.9	316.7	349.5	365.6
75°	209.1	233.5	267.1	299.2	319.0
77.5°	161.0	184.7	218.3	251.1	267.9
80°	115.2	138.9	171.7	204.5	222.1
82.5°	73.3	95.4	127.5	154.9	171.0
85°	38.2	56.5	80.9	90.1	100.7
87.5°	11.4	22.1	31.3	35.1	43.5
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	13.73	15.39	14.09	15.71	16.02	14.48	16.14	14.84	16.45	16.77
	3H	15.49	17.00	15.87	17.33	17.69	16.57	18.08	16.95	18.41	18.76
	4H	16.12	17.54	16.51	17.89	18.26	17.46	18.88	17.85	19.23	19.60
	6H	16.53	17.85	16.94	18.21	18.60	18.22	19.54	18.63	19.91	20.30
	8H	16.64	17.90	17.06	18.29	18.68	18.53	19.80	18.96	20.19	20.58
	12H	16.69	17.90	17.12	18.28	18.71	18.75	19.96	19.18	20.34	20.77
4H	2H	14.50	15.92	14.90	16.27	16.64	15.08	16.50	15.48	16.85	17.22
	3H	16.49	17.69	16.90	18.09	18.49	17.41	18.61	17.82	19.00	19.40
	4H	17.25	18.33	17.68	18.75	19.18	18.44	19.53	18.87	19.94	20.38
	6H	17.78	18.74	18.24	19.18	19.63	19.37	20.33	19.83	20.77	21.22
	8H	17.93	18.82	18.39	19.26	19.73	19.76	20.65	20.22	21.09	21.55
	12H	18.02	18.82	18.50	19.29	19.76	20.03	20.84	20.51	21.31	21.78
8H	4H	17.70	18.59	18.16	19.03	19.50	18.74	19.63	19.20	20.08	20.54
	6H	18.38	19.12	18.87	19.61	20.08	19.83	20.57	20.32	21.06	21.53
	8H	18.60	19.27	19.10	19.77	20.26	20.31	20.98	20.82	21.49	21.97
	12H	18.74	19.34	19.25	19.83	20.39	20.69	21.28	21.19	21.77	22.33
12H	4H	17.78	18.59	18.26	19.06	19.53	18.77	19.57	19.25	20.05	20.52
	6H	18.50	19.17	19.01	19.68	20.16	19.88	20.55	20.39	21.05	21.54
	8H	18.80	19.39	19.30	19.88	20.44	20.43	21.03	20.94	21.51	22.07