

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: P1589719

Luminaire Tested: 24CZSP-SB-37HE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589719
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-L845
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

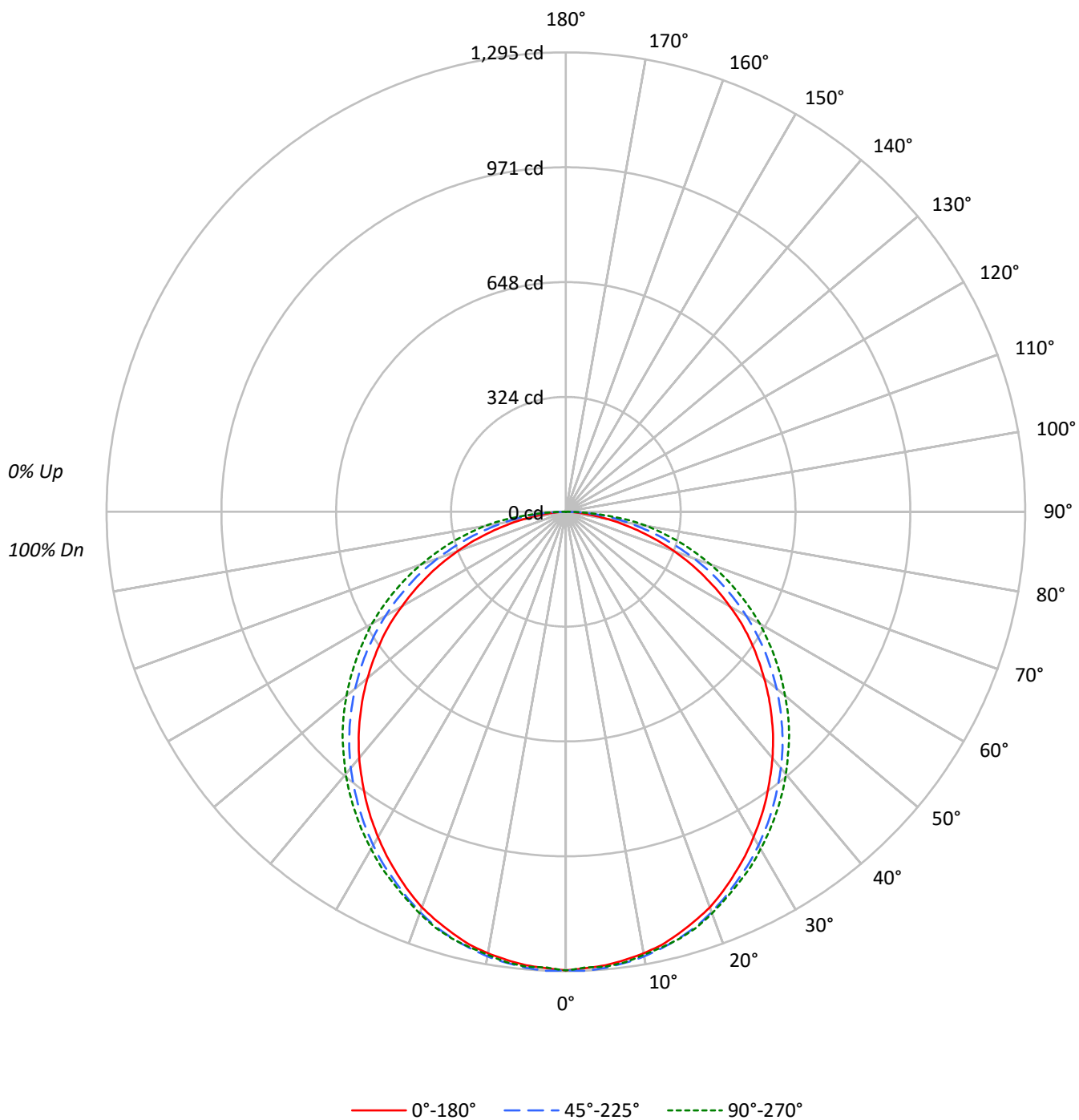
Lumens per Lamp: N/A
Luminaire Lumens: 3773.0 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	1980	1980	1980
5°	1973	1984	1979
10°	1966	1980	1972
15°	1951	1971	1974
20°	1934	1958	1964
25°	1903	1937	1950
30°	1873	1921	1942
35°	1842	1902	1935
40°	1812	1886	1930
45°	1778	1868	1929
50°	1739	1848	1924
55°	1699	1828	1923
60°	1636	1800	1935
65°	1560	1765	1936
70°	1455	1716	1942
75°	1295	1654	1975
80°	1064	1585	2050
85°	701	1487	1852

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2099 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	3.2
10°-20°	350.1	9.3
20°-30°	527.6	14.0
30°-40°	635.4	16.8
40°-50°	663.8	17.6
50°-60°	609.9	16.2
60°-70°	480.3	12.7
70°-80°	294.4	7.8
80°-90°	89.3	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°	1000.0	26.5
0°-40°	1635.4	43.3
0°-60°	2909.0	77.1
0°-90°	3773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1293	1293	1293	1293	1293	
5°	1283	1286	1290	1289	1287	122
15°	1231	1235	1243	1248	1245	347
25°	1126	1133	1146	1158	1154	519
35°	985	998	1017	1036	1035	616
45°	821	838	862	886	890	633
55°	636	655	684	714	720	568
65°	430	453	487	520	534	426
75°	219	244	280	313	334	233
85°	40	59	85	94	105	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1292.9	1292.9	1292.9	1292.9	1292.9
2.5°	1288.1	1291.3	1295.3	1288.9	1285.7
5°	1283.3	1285.7	1290.5	1288.9	1287.3
7.5°	1274.5	1276.1	1282.5	1282.5	1280.9
10°	1264.1	1267.3	1272.9	1272.1	1268.1
12.5°	1250.5	1252.9	1259.3	1259.3	1256.9
15°	1230.6	1235.4	1243.3	1248.1	1244.9
17.5°	1209.8	1214.6	1225.0	1229.8	1228.2
20°	1186.6	1190.6	1201.0	1208.2	1205.0
22.5°	1157.9	1162.7	1174.7	1182.7	1179.5
25°	1126.0	1133.1	1145.9	1157.9	1153.9
27.5°	1094.0	1102.0	1118.0	1130.0	1128.4
30°	1058.9	1069.3	1086.0	1101.2	1098.0
32.5°	1022.9	1034.9	1052.5	1068.5	1067.7
35°	985.4	998.2	1017.4	1035.7	1034.9
37.5°	945.5	960.7	980.6	1000.6	1001.4
40°	906.4	920.7	943.1	964.7	965.4
42.5°	864.8	880.0	904.0	926.3	927.1
45°	820.9	838.5	862.4	886.4	890.4
47.5°	776.2	794.6	819.3	844.9	849.7
50°	729.9	749.0	775.4	802.5	807.3
52.5°	682.8	702.7	729.9	757.0	764.2
55°	636.4	654.8	684.4	713.9	720.3
57.5°	587.7	604.5	636.4	667.6	675.6
60°	534.2	555.0	587.7	618.9	631.7
62.5°	482.3	504.7	538.2	569.4	583.7
65°	430.4	452.8	487.1	519.9	534.2
67.5°	377.7	400.9	437.6	468.8	484.7
70°	325.0	348.2	383.3	416.8	433.6
72.5°	272.3	297.1	331.4	365.7	382.5
75°	218.8	244.4	279.5	313.0	333.8
77.5°	168.5	193.2	228.4	262.7	280.3
80°	120.6	145.3	179.7	214.0	232.4
82.5°	76.7	99.8	133.4	162.1	178.9
85°	39.9	59.1	84.6	94.2	105.4
87.5°	12.0	23.2	32.7	36.7	45.5
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	13.89	15.55	14.25	15.86	16.18	14.63	16.30	15.00	16.61	16.92
	3H	15.65	17.16	16.03	17.48	17.84	16.73	18.24	17.11	18.56	18.92
	4H	16.27	17.70	16.67	18.04	18.42	17.61	19.04	18.01	19.38	19.76
	6H	16.69	18.01	17.10	18.37	18.76	18.38	19.70	18.79	20.06	20.46
	8H	16.79	18.06	17.22	18.44	18.84	18.69	19.95	19.12	20.34	20.74
	12H	16.84	18.06	17.27	18.44	18.87	18.90	20.12	19.33	20.50	20.93
4H	2H	14.66	16.08	15.05	16.43	16.80	15.24	16.66	15.63	17.01	17.38
	3H	16.65	17.85	17.06	18.25	18.64	17.57	18.76	17.97	19.16	19.56
	4H	17.40	18.49	17.84	18.90	19.34	18.60	19.69	19.03	20.10	20.53
	6H	17.94	18.89	18.39	19.33	19.79	19.53	20.48	19.98	20.92	21.38
	8H	18.09	18.98	18.55	19.42	19.89	19.91	20.81	20.37	21.25	21.71
	12H	18.17	18.98	18.65	19.45	19.92	20.19	20.99	20.67	21.47	21.94
8H	4H	17.86	18.75	18.32	19.19	19.65	18.90	19.79	19.36	20.23	20.70
	6H	18.53	19.28	19.03	19.77	20.24	19.98	20.73	20.48	21.21	21.69
	8H	18.75	19.42	19.26	19.93	20.41	20.47	21.14	20.98	21.65	22.13
	12H	18.90	19.49	19.41	19.98	20.54	20.85	21.44	21.35	21.93	22.49
12H	4H	17.94	18.74	18.42	19.22	19.69	18.93	19.73	19.41	20.21	20.67
	6H	18.66	19.33	19.17	19.84	20.32	20.04	20.71	20.54	21.21	21.70
	8H	18.95	19.55	19.46	20.03	20.59	20.59	21.18	21.10	21.67	22.23