

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: P1585859

Luminaire Tested: 14CZSP-SB-70-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-70-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6700 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

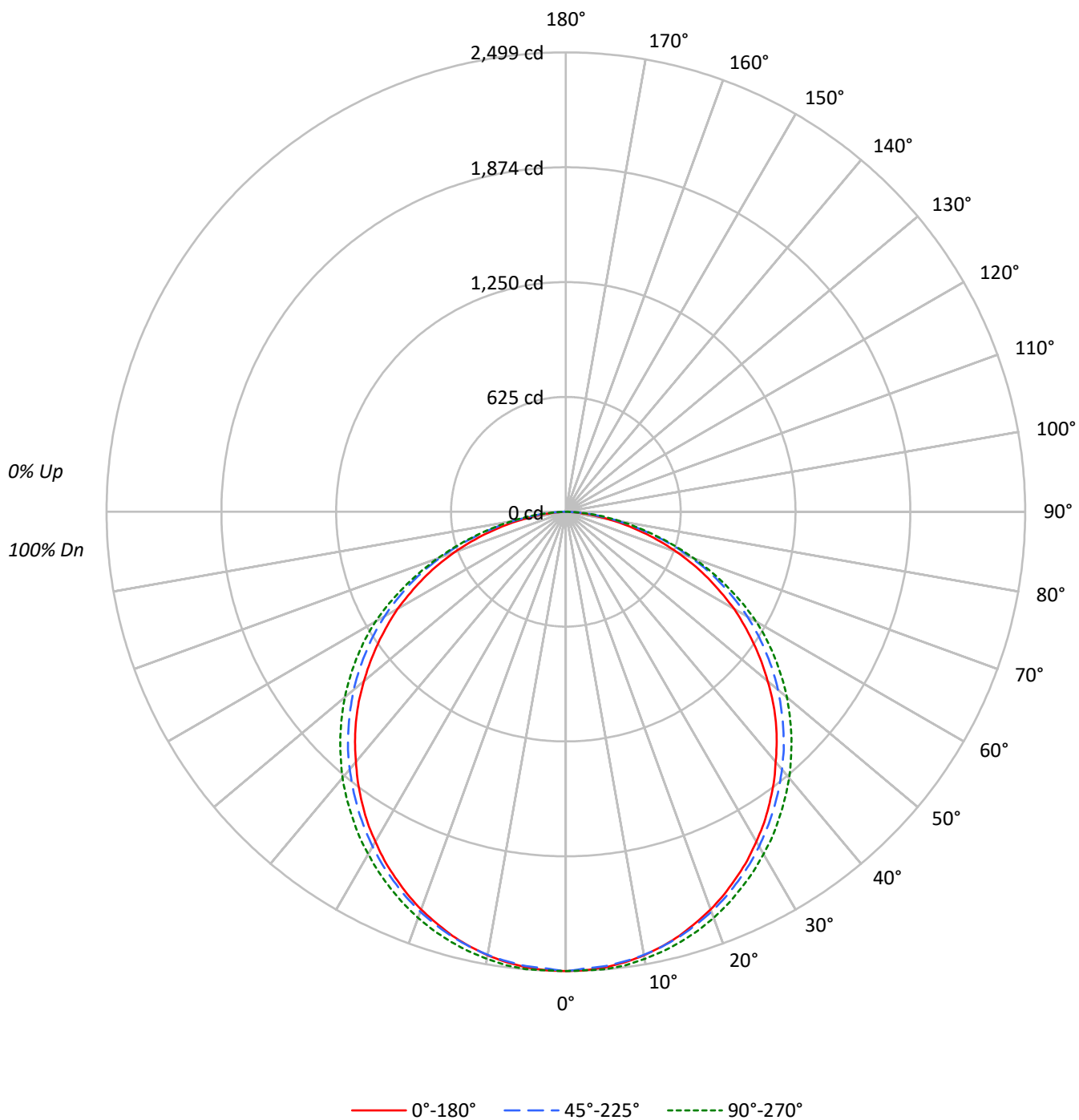
Lumens per Lamp: N/A
Luminaire Lumens: 7219.0 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8420	8420	8420
5°	8414	8392	8449
10°	8382	8375	8450
15°	8329	8347	8445
20°	8256	8304	8431
25°	8165	8243	8397
30°	8064	8181	8367
35°	7952	8114	8337
40°	7812	8046	8316
45°	7701	7973	8270
50°	7517	7899	8231
55°	7325	7795	8168
60°	7127	7681	8059
65°	6807	7479	7752
70°	6352	7141	7315
75°	5659	6472	6661
80°	4620	5610	5891
85°	3054	4462	4782

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8270 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.7	3.3
10°-20°	677.9	9.4
20°-30°	1026.4	14.2
30°-40°	1238.9	17.2
40°-50°	1293.8	17.9
50°-60°	1183.6	16.4
60°-70°	915.0	12.7
70°-80°	518.0	7.2
80°-90°	128.7	1.8
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°	1941.0	26.9
0°-40°	3179.9	44.0
0°-60°	5657.3	78.4
0°-90°	7219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7219.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2499	2499	2499	2499	2499	
5°	2487	2505	2481	2483	2498	236
15°	2388	2408	2393	2404	2421	673
25°	2196	2224	2217	2238	2259	1012
35°	1933	1960	1973	2006	2027	1209
45°	1616	1647	1673	1716	1736	1245
55°	1247	1284	1327	1368	1390	1115
65°	854	889	938	966	972	843
75°	435	472	497	510	512	461
85°	79	92	115	121	124	102
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2498.8	2498.8	2498.8	2498.8	2498.8
2.5°	2495.7	2513.4	2486.3	2491.5	2496.7
5°	2487.4	2505.0	2481.1	2483.2	2497.8
7.5°	2471.8	2491.5	2466.6	2470.7	2488.4
10°	2449.9	2469.7	2447.8	2452.0	2469.7
12.5°	2421.9	2441.6	2422.9	2429.1	2448.9
15°	2387.5	2408.3	2392.7	2404.2	2420.8
17.5°	2345.9	2371.9	2355.3	2373.0	2389.6
20°	2302.3	2328.3	2315.8	2331.4	2351.1
22.5°	2252.4	2278.3	2269.0	2285.6	2307.5
25°	2196.2	2224.3	2217.0	2237.8	2258.6
27.5°	2138.0	2165.0	2162.9	2185.8	2207.6
30°	2072.5	2101.6	2102.6	2129.6	2150.4
32.5°	2006.9	2032.9	2039.2	2069.3	2093.3
35°	1933.1	1960.2	1972.6	2005.9	2026.7
37.5°	1858.2	1888.4	1901.9	1938.3	1960.2
40°	1776.1	1810.4	1829.1	1867.6	1890.5
42.5°	1698.1	1729.3	1754.3	1792.7	1813.5
45°	1616.0	1647.2	1673.1	1715.8	1735.5
47.5°	1527.6	1561.9	1590.0	1631.6	1653.4
50°	1434.0	1471.4	1506.8	1547.3	1570.2
52.5°	1341.4	1377.8	1418.4	1457.9	1480.8
55°	1246.8	1284.2	1326.9	1368.5	1390.3
57.5°	1151.1	1188.6	1235.4	1272.8	1295.7
60°	1057.5	1091.9	1139.7	1177.1	1195.8
62.5°	951.5	991.0	1039.9	1077.3	1087.7
65°	853.7	889.1	938.0	966.0	972.3
67.5°	749.7	785.1	834.0	849.6	858.9
70°	644.7	682.2	724.8	735.2	742.5
72.5°	538.7	577.1	610.4	620.8	627.0
75°	434.7	472.1	497.1	509.5	511.6
77.5°	333.8	368.1	391.0	405.5	405.5
80°	238.1	264.1	289.1	304.7	303.6
82.5°	151.8	171.6	197.6	209.0	216.3
85°	79.0	91.5	115.4	120.6	123.7
87.5°	25.0	32.2	41.6	34.3	33.3
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	19.08	20.73	19.45	21.05	21.36	19.62	21.27	19.99	21.59	21.90
	3H	20.86	22.35	21.23	22.68	23.04	21.48	22.98	21.86	23.30	23.66
	4H	21.48	22.89	21.88	23.23	23.61	22.16	23.56	22.55	23.91	24.29
	6H	21.88	23.19	22.29	23.55	23.94	22.64	23.95	23.05	24.31	24.70
	8H	21.98	23.23	22.41	23.62	24.02	22.80	24.04	23.22	24.43	24.83
	12H	22.03	23.23	22.46	23.61	24.04	22.90	24.09	23.32	24.47	24.90
4H	2H	19.82	21.23	20.22	21.58	21.95	20.24	21.65	20.64	22.00	22.37
	3H	21.81	23.00	22.22	23.39	23.79	22.32	23.50	22.73	23.90	24.30
	4H	22.56	23.63	22.99	24.05	24.48	23.12	24.19	23.55	24.60	25.04
	6H	23.08	24.02	23.54	24.46	24.91	23.74	24.67	24.19	25.11	25.57
	8H	23.22	24.09	23.68	24.53	25.00	23.94	24.82	24.40	25.26	25.72
	12H	23.29	24.08	23.77	24.56	25.02	24.08	24.87	24.56	25.34	25.81
8H	4H	22.92	23.79	23.38	24.23	24.70	23.41	24.29	23.87	24.73	25.19
	6H	23.55	24.28	24.04	24.77	25.24	24.14	24.87	24.64	25.36	25.83
	8H	23.74	24.40	24.25	24.90	25.39	24.42	25.07	24.93	25.58	26.06
	12H	23.87	24.45	24.38	24.94	25.50	24.62	25.20	25.13	25.69	26.25
12H	4H	22.96	23.75	23.44	24.22	24.69	23.44	24.22	23.92	24.70	25.17
	6H	23.61	24.27	24.12	24.77	25.26	24.19	24.84	24.69	25.35	25.83
	8H	23.86	24.44	24.37	24.93	25.49	24.51	25.09	25.02	25.58	26.14