

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: P1585852

Luminaire Tested: 14CZSP-SB-70-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-70-L830-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 6700 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

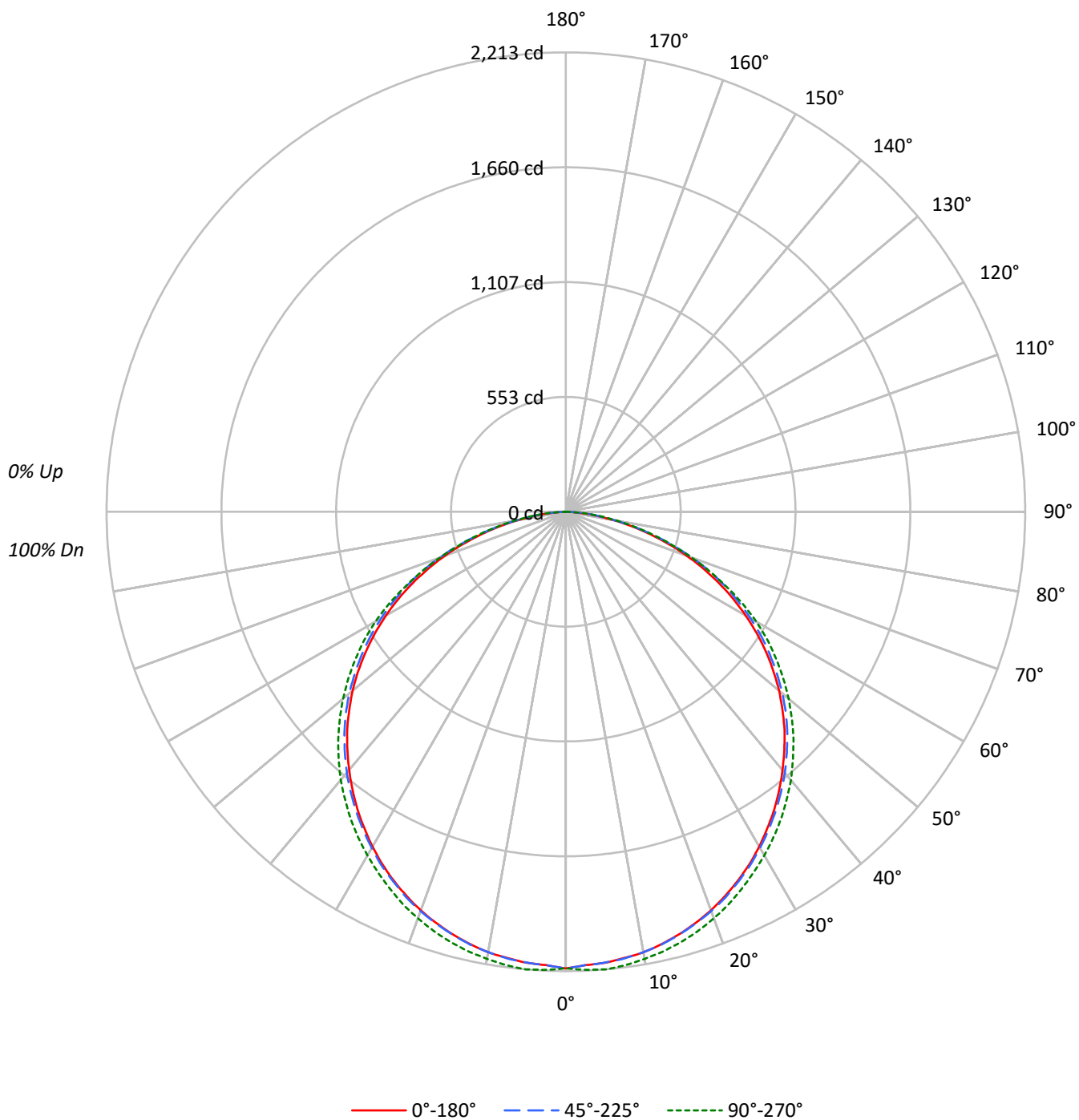
Lumens per Lamp: N/A
Luminaire Lumens: 6492.0 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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	109	104	99	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7413	7413	7413
5°	7377	7374	7485
10°	7374	7371	7483
15°	7352	7359	7487
20°	7329	7343	7475
25°	7292	7311	7451
30°	7248	7279	7438
35°	7201	7246	7434
40°	7145	7219	7421
45°	7101	7191	7390
50°	7030	7139	7343
55°	6920	7049	7271
60°	6753	6927	7141
65°	6499	6745	6816
70°	6111	6395	6357
75°	5488	5721	5760
80°	4533	4764	5016
85°	3035	3538	3727

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7390 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.5	3.2
10°-20°	599.3	9.2
20°-30°	912.7	14.1
30°-40°	1110.7	17.1
40°-50°	1170.9	18.0
50°-60°	1078.5	16.6
60°-70°	832.9	12.8
70°-80°	466.1	7.2
80°-90°	112.3	1.7
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°	1720.5	26.5
0°-40°	2831.2	43.6
0°-60°	5080.6	78.3
0°-90°	6492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6492.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2200	2200	2200	2200	2200	
5°	2181	2212	2180	2183	2213	207
15°	2108	2136	2109	2121	2146	595
25°	1961	1989	1966	1979	2004	904
35°	1751	1776	1762	1783	1807	1095
45°	1490	1511	1509	1532	1551	1148
55°	1178	1198	1200	1225	1238	1051
65°	815	839	846	854	855	805
75°	422	447	439	438	442	447
85°	78	86	92	102	96	101
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2199.9	2199.9	2199.9	2199.9	2199.9
2.5°	2186.0	2217.8	2186.0	2191.0	2208.8
5°	2181.0	2211.8	2180.0	2183.0	2212.8
7.5°	2168.1	2199.9	2170.1	2174.1	2202.9
10°	2155.2	2184.0	2154.2	2159.1	2187.0
12.5°	2133.3	2163.1	2135.3	2141.2	2169.1
15°	2107.5	2136.3	2109.4	2121.4	2146.2
17.5°	2077.6	2105.5	2079.6	2093.5	2117.4
20°	2043.8	2070.7	2047.8	2057.7	2084.6
22.5°	2004.1	2031.9	2010.0	2019.0	2047.8
25°	1961.3	1989.2	1966.3	1979.2	2004.1
27.5°	1914.6	1941.4	1921.6	1937.5	1959.3
30°	1862.9	1888.8	1870.9	1889.7	1911.6
32.5°	1807.2	1835.1	1817.2	1839.0	1860.9
35°	1750.6	1776.4	1761.5	1783.4	1807.2
37.5°	1688.9	1713.8	1702.9	1725.7	1747.6
40°	1624.3	1652.2	1641.2	1665.1	1687.0
42.5°	1557.7	1584.6	1575.6	1600.5	1619.4
45°	1490.1	1511.0	1509.0	1531.9	1550.8
47.5°	1415.6	1441.4	1437.4	1460.3	1477.2
50°	1341.0	1361.9	1361.9	1383.8	1400.7
52.5°	1260.5	1281.4	1281.4	1307.2	1321.1
55°	1178.0	1197.9	1199.9	1224.7	1237.6
57.5°	1090.5	1111.4	1115.4	1140.2	1152.1
60°	1002.0	1021.9	1027.9	1052.7	1059.7
62.5°	909.6	933.4	936.4	956.3	960.3
65°	815.1	839.0	846.0	853.9	854.9
67.5°	718.7	743.6	750.5	750.5	750.5
70°	620.3	643.2	649.1	645.2	645.2
72.5°	520.9	545.8	542.8	538.8	540.8
75°	421.5	447.3	439.4	438.4	442.4
77.5°	326.1	350.9	338.0	345.9	346.9
80°	233.6	252.5	245.5	257.5	258.5
82.5°	150.1	162.0	164.0	174.0	171.0
85°	78.5	86.5	91.5	102.4	96.4
87.5°	24.9	32.8	29.8	34.8	26.8
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	18.99	20.65	19.36	20.96	21.28	19.21	20.87	19.58	21.18	21.49
	3H	20.82	22.31	21.19	22.64	23.00	21.01	22.51	21.39	22.84	23.20
	4H	21.46	22.87	21.86	23.22	23.60	21.65	23.06	22.05	23.41	23.78
	6H	21.89	23.20	22.30	23.56	23.95	22.10	23.41	22.51	23.78	24.17
	8H	22.00	23.25	22.42	23.64	24.04	22.23	23.49	22.66	23.87	24.27
	12H	22.05	23.25	22.48	23.63	24.06	22.31	23.51	22.74	23.89	24.32
4H	2H	19.67	21.09	20.07	21.43	21.81	19.84	21.26	20.24	21.60	21.98
	3H	21.71	22.90	22.12	23.30	23.70	21.86	23.04	22.27	23.44	23.84
	4H	22.49	23.57	22.93	23.98	24.42	22.62	23.69	23.05	24.10	24.54
	6H	23.04	23.98	23.50	24.42	24.88	23.19	24.13	23.64	24.57	25.02
	8H	23.19	24.07	23.65	24.51	24.97	23.36	24.24	23.82	24.68	25.15
	12H	23.27	24.06	23.75	24.54	25.01	23.48	24.27	23.96	24.74	25.21
8H	4H	22.80	23.68	23.26	24.12	24.59	22.91	23.79	23.37	24.23	24.69
	6H	23.46	24.19	23.95	24.68	25.15	23.59	24.32	24.08	24.81	25.28
	8H	23.67	24.32	24.18	24.83	25.31	23.83	24.48	24.34	24.99	25.47
	12H	23.80	24.38	24.31	24.87	25.43	24.01	24.59	24.51	25.08	25.63
12H	4H	22.83	23.62	23.31	24.10	24.57	22.94	23.73	23.42	24.20	24.67
	6H	23.51	24.16	24.01	24.67	25.15	23.63	24.29	24.14	24.79	25.28
	8H	23.76	24.34	24.27	24.83	25.39	23.92	24.50	24.43	24.99	25.55