

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: P1585857

Luminaire Tested: 14CZSP-SB-70-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585857
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-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 6700 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

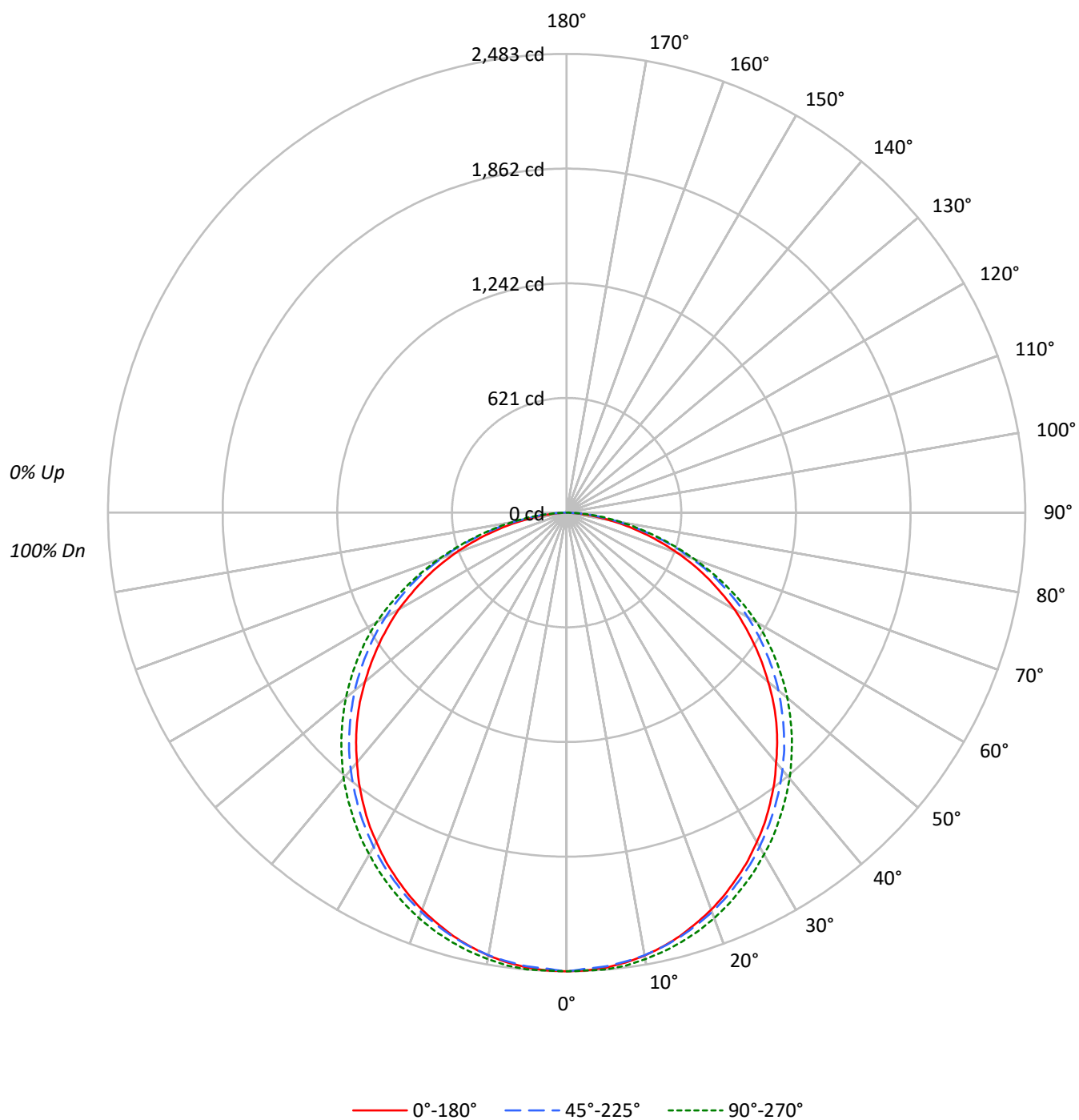
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7173.0 lumens
Efficiency: N/A
Efficacy: 134.3 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°	8366	8366	8366
5°	8360	8339	8395
10°	8329	8322	8396
15°	8276	8294	8391
20°	8203	8251	8377
25°	8113	8190	8344
30°	8012	8129	8314
35°	7901	8063	8284
40°	7763	7995	8262
45°	7652	7922	8218
50°	7469	7849	8179
55°	7278	7745	8115
60°	7082	7631	8007
65°	6764	7431	7703
70°	6311	7095	7268
75°	5623	6430	6619
80°	4591	5573	5854
85°	3035	4434	4755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8218 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.2	3.3
10°-20°	673.6	9.4
20°-30°	1019.8	14.2
30°-40°	1231.0	17.2
40°-50°	1285.6	17.9
50°-60°	1176.0	16.4
60°-70°	909.2	12.7
70°-80°	514.7	7.2
80°-90°	127.9	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°	1928.6	26.9
0°-40°	3159.6	44.0
0°-60°	5621.3	78.4
0°-90°	7173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7173.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2483	2483	2483	2483	2483	
5°	2472	2489	2465	2467	2482	235
15°	2372	2393	2378	2389	2405	669
25°	2182	2210	2203	2224	2244	1006
35°	1921	1948	1960	1993	2014	1201
45°	1606	1637	1662	1705	1724	1237
55°	1239	1276	1318	1360	1381	1108
65°	848	883	932	960	966	837
75°	432	469	494	506	508	458
85°	78	91	115	120	123	101
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2482.9	2482.9	2482.9	2482.9	2482.9
2.5°	2479.8	2497.3	2470.5	2475.6	2480.8
5°	2471.5	2489.1	2465.3	2467.4	2481.8
7.5°	2456.0	2475.6	2450.8	2455.0	2472.5
10°	2434.3	2453.9	2432.3	2436.4	2453.9
12.5°	2406.4	2426.1	2407.5	2413.7	2433.3
15°	2372.3	2393.0	2377.5	2388.9	2405.4
17.5°	2331.0	2356.8	2340.3	2357.9	2374.4
20°	2287.6	2313.4	2301.0	2316.5	2336.2
22.5°	2238.0	2263.8	2254.5	2271.1	2292.8
25°	2182.2	2210.1	2202.9	2223.5	2244.2
27.5°	2124.3	2151.2	2149.1	2171.9	2193.6
30°	2059.2	2088.2	2089.2	2116.1	2136.7
32.5°	1994.2	2020.0	2026.2	2056.2	2079.9
35°	1920.8	1947.7	1960.1	1993.1	2013.8
37.5°	1846.4	1876.4	1889.8	1926.0	1947.7
40°	1764.8	1798.9	1817.5	1855.7	1878.4
42.5°	1687.3	1718.3	1743.1	1781.3	1802.0
45°	1605.7	1636.7	1662.5	1704.8	1724.5
47.5°	1517.8	1551.9	1579.8	1621.2	1642.9
50°	1424.8	1462.0	1497.2	1537.5	1560.2
52.5°	1332.9	1369.0	1409.3	1448.6	1471.3
55°	1238.9	1276.1	1318.4	1359.7	1381.4
57.5°	1143.8	1181.0	1227.5	1264.7	1287.4
60°	1050.8	1084.9	1132.4	1169.6	1188.2
62.5°	945.4	984.7	1033.2	1070.4	1080.8
65°	848.3	883.4	932.0	959.9	966.1
67.5°	745.0	780.1	828.7	844.2	853.5
70°	640.6	677.8	720.2	730.5	737.7
72.5°	535.2	573.4	606.5	616.8	623.0
75°	431.9	469.1	493.9	506.3	508.4
77.5°	331.7	365.8	388.5	403.0	403.0
80°	236.6	262.4	287.2	302.7	301.7
82.5°	150.9	170.5	196.3	207.7	214.9
85°	78.5	90.9	114.7	119.9	123.0
87.5°	24.8	32.0	41.3	34.1	33.1
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	19.06	20.71	19.42	21.02	21.34	19.60	21.25	19.97	21.57	21.88
	3H	20.83	22.33	21.21	22.65	23.01	21.46	22.96	21.84	23.28	23.64
	4H	21.46	22.86	21.85	23.21	23.59	22.13	23.54	22.53	23.89	24.26
	6H	21.86	23.17	22.27	23.53	23.92	22.62	23.92	23.03	24.29	24.68
	8H	21.96	23.21	22.39	23.60	24.00	22.78	24.02	23.20	24.41	24.81
	12H	22.01	23.21	22.44	23.59	24.02	22.87	24.07	23.30	24.45	24.88
4H	2H	19.80	21.21	20.20	21.55	21.93	20.22	21.63	20.62	21.98	22.35
	3H	21.79	22.97	22.20	23.37	23.77	22.30	23.48	22.71	23.88	24.28
	4H	22.54	23.61	22.97	24.02	24.46	23.10	24.17	23.53	24.58	25.02
	6H	23.06	23.99	23.51	24.43	24.89	23.72	24.65	24.17	25.09	25.54
	8H	23.20	24.07	23.65	24.51	24.98	23.92	24.79	24.38	25.24	25.70
	12H	23.27	24.06	23.75	24.53	25.00	24.06	24.84	24.54	25.32	25.79
8H	4H	22.90	23.77	23.36	24.21	24.68	23.39	24.27	23.85	24.71	25.17
	6H	23.53	24.26	24.02	24.74	25.22	24.12	24.85	24.62	25.34	25.81
	8H	23.72	24.37	24.23	24.88	25.37	24.40	25.05	24.90	25.55	26.04
	12H	23.85	24.42	24.35	24.91	25.47	24.60	25.18	25.11	25.67	26.23
12H	4H	22.94	23.72	23.42	24.20	24.67	23.41	24.20	23.89	24.68	25.14
	6H	23.59	24.25	24.10	24.75	25.24	24.16	24.82	24.67	25.32	25.81
	8H	23.84	24.42	24.35	24.91	25.47	24.49	25.07	25.00	25.56	26.12