

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: P1585879

Luminaire Tested: 14CZSP-SB-70VHE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585879
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-70VHE-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 7200 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

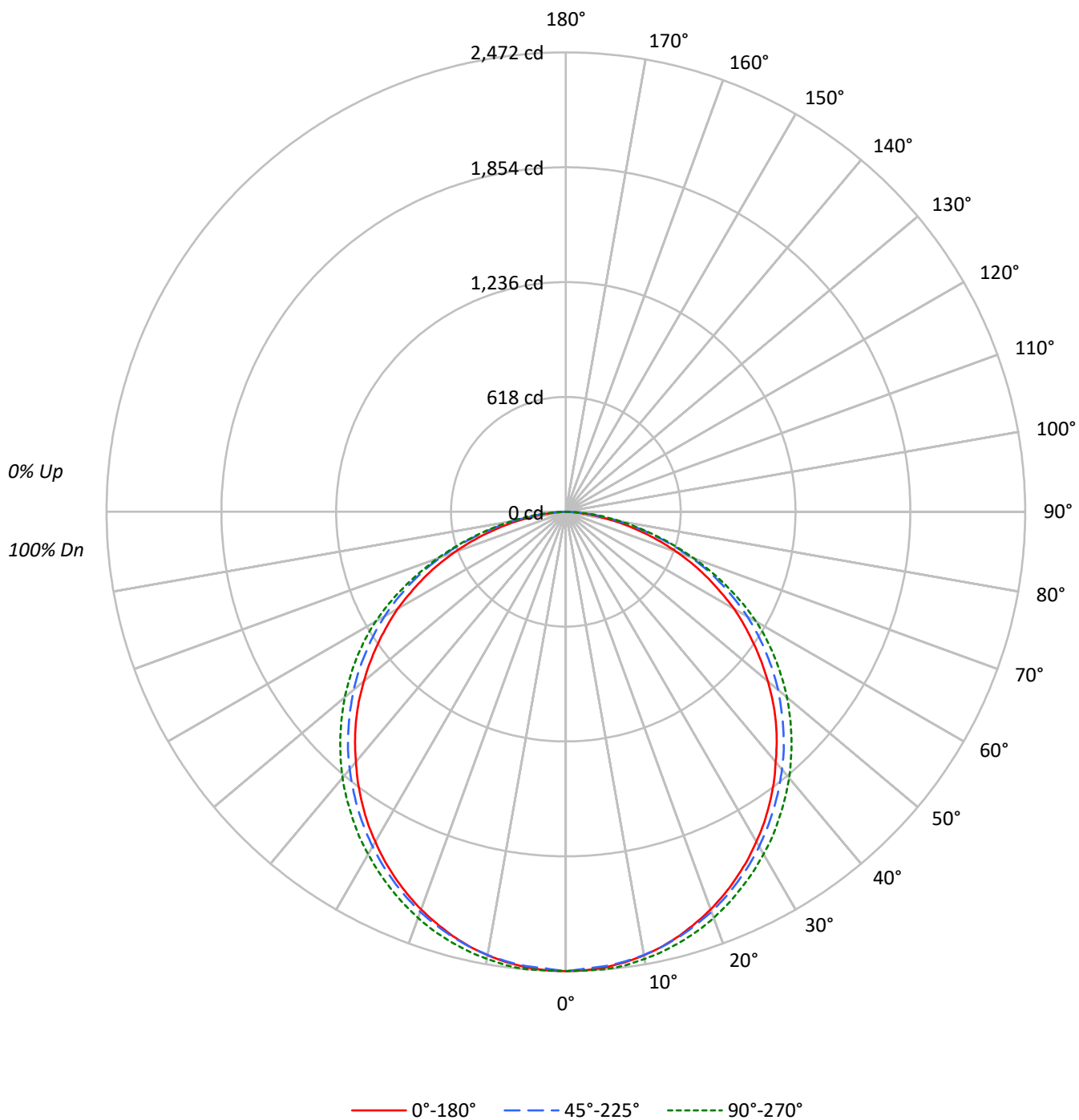
Lumens per Lamp: N/A
Luminaire Lumens: 7142.0 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 51.9
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	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8330	8330	8330
5°	8324	8303	8358
10°	8293	8286	8360
15°	8240	8258	8355
20°	8167	8215	8341
25°	8078	8155	8308
30°	7978	8094	8278
35°	7867	8028	8248
40°	7729	7960	8227
45°	7618	7888	8182
50°	7437	7814	8144
55°	7246	7712	8081
60°	7051	7598	7973
65°	6734	7399	7669
70°	6284	7065	7236
75°	5598	6403	6590
80°	4572	5550	5829
85°	3023	4415	4732

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8182 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.1	3.3
10°-20°	670.7	9.4
20°-30°	1015.4	14.2
30°-40°	1225.7	17.2
40°-50°	1280.0	17.9
50°-60°	1171.0	16.4
60°-70°	905.2	12.7
70°-80°	512.5	7.2
80°-90°	127.3	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°	1920.3	26.9
0°-40°	3146.0	44.0
0°-60°	5596.9	78.4
0°-90°	7142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2472	2472	2472	2472	2472	
5°	2461	2478	2455	2457	2471	234
15°	2362	2383	2367	2378	2395	666
25°	2173	2201	2193	2214	2234	1001
35°	1912	1939	1952	1984	2005	1196
45°	1599	1630	1655	1698	1717	1231
55°	1234	1270	1313	1354	1376	1103
65°	845	880	928	956	962	834
75°	430	467	492	504	506	456
85°	78	90	114	119	122	101
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2472.1	2472.1	2472.1	2472.1	2472.1
2.5°	2469.1	2486.6	2459.8	2464.9	2470.1
5°	2460.8	2478.3	2454.7	2456.7	2471.1
7.5°	2445.4	2464.9	2440.3	2444.4	2461.9
10°	2423.8	2443.3	2421.7	2425.9	2443.3
12.5°	2396.0	2415.6	2397.0	2403.2	2422.8
15°	2362.1	2382.6	2367.2	2378.5	2395.0
17.5°	2320.9	2346.6	2330.2	2347.7	2364.1
20°	2277.7	2303.4	2291.1	2306.5	2326.1
22.5°	2228.3	2254.0	2244.8	2261.2	2282.9
25°	2172.8	2200.6	2193.4	2213.9	2234.5
27.5°	2115.2	2141.9	2139.9	2162.5	2184.1
30°	2050.4	2079.2	2080.2	2106.9	2127.5
32.5°	1985.5	2011.3	2017.4	2047.3	2070.9
35°	1912.5	1939.2	1951.6	1984.5	2005.1
37.5°	1838.4	1868.3	1881.6	1917.6	1939.2
40°	1757.1	1791.1	1809.6	1847.7	1870.3
42.5°	1680.0	1710.9	1735.5	1773.6	1794.2
45°	1598.7	1629.6	1655.3	1697.5	1717.0
47.5°	1511.3	1545.2	1573.0	1614.1	1635.8
50°	1418.7	1455.7	1490.7	1530.8	1553.5
52.5°	1327.1	1363.1	1403.3	1442.3	1465.0
55°	1233.5	1270.5	1312.7	1353.9	1375.5
57.5°	1138.9	1175.9	1222.2	1259.2	1281.9
60°	1046.3	1080.2	1127.5	1164.6	1183.1
62.5°	941.3	980.4	1028.8	1065.8	1076.1
65°	844.6	879.6	928.0	955.7	961.9
67.5°	741.7	776.7	825.1	840.5	849.8
70°	637.8	674.9	717.1	727.3	734.5
72.5°	532.9	571.0	603.9	614.2	620.4
75°	430.0	467.1	491.8	504.1	506.2
77.5°	330.2	364.2	386.8	401.2	401.2
80°	235.6	261.3	286.0	301.4	300.4
82.5°	150.2	169.7	195.5	206.8	214.0
85°	78.2	90.5	114.2	119.3	122.4
87.5°	24.7	31.9	41.2	33.9	32.9
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	19.05	20.70	19.41	21.01	21.32	19.59	21.24	19.95	21.55	21.86
	3H	20.82	22.31	21.19	22.64	23.00	21.45	22.94	21.82	23.27	23.63
	4H	21.44	22.85	21.84	23.20	23.57	22.12	23.53	22.52	23.87	24.25
	6H	21.85	23.15	22.26	23.52	23.91	22.60	23.91	23.01	24.27	24.66
	8H	21.95	23.19	22.37	23.58	23.98	22.76	24.01	23.18	24.40	24.79
	12H	22.00	23.19	22.42	23.57	24.00	22.86	24.05	23.29	24.43	24.86
4H	2H	19.78	21.19	20.18	21.54	21.91	20.21	21.61	20.60	21.96	22.34
	3H	21.78	22.96	22.19	23.36	23.75	22.28	23.47	22.69	23.86	24.26
	4H	22.53	23.60	22.96	24.01	24.44	23.09	24.15	23.52	24.57	25.00
	6H	23.04	23.98	23.50	24.42	24.87	23.70	24.64	24.15	25.08	25.53
	8H	23.18	24.06	23.64	24.50	24.96	23.90	24.78	24.36	25.22	25.68
	12H	23.26	24.04	23.74	24.52	24.99	24.04	24.83	24.52	25.30	25.77
8H	4H	22.88	23.76	23.34	24.20	24.66	23.38	24.25	23.83	24.69	25.16
	6H	23.51	24.24	24.01	24.73	25.20	24.11	24.83	24.60	25.32	25.80
	8H	23.71	24.36	24.22	24.87	25.35	24.38	25.03	24.89	25.54	26.02
	12H	23.83	24.41	24.34	24.90	25.46	24.59	25.16	25.09	25.65	26.21
12H	4H	22.92	23.71	23.40	24.18	24.65	23.40	24.19	23.88	24.66	25.13
	6H	23.58	24.23	24.09	24.74	25.22	24.15	24.80	24.66	25.31	25.79
	8H	23.83	24.40	24.33	24.89	25.45	24.48	25.05	24.98	25.54	26.10