

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: P1585875

Luminaire Tested: 14CZSP-SB-70VHE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585875
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-L835
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 7200 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

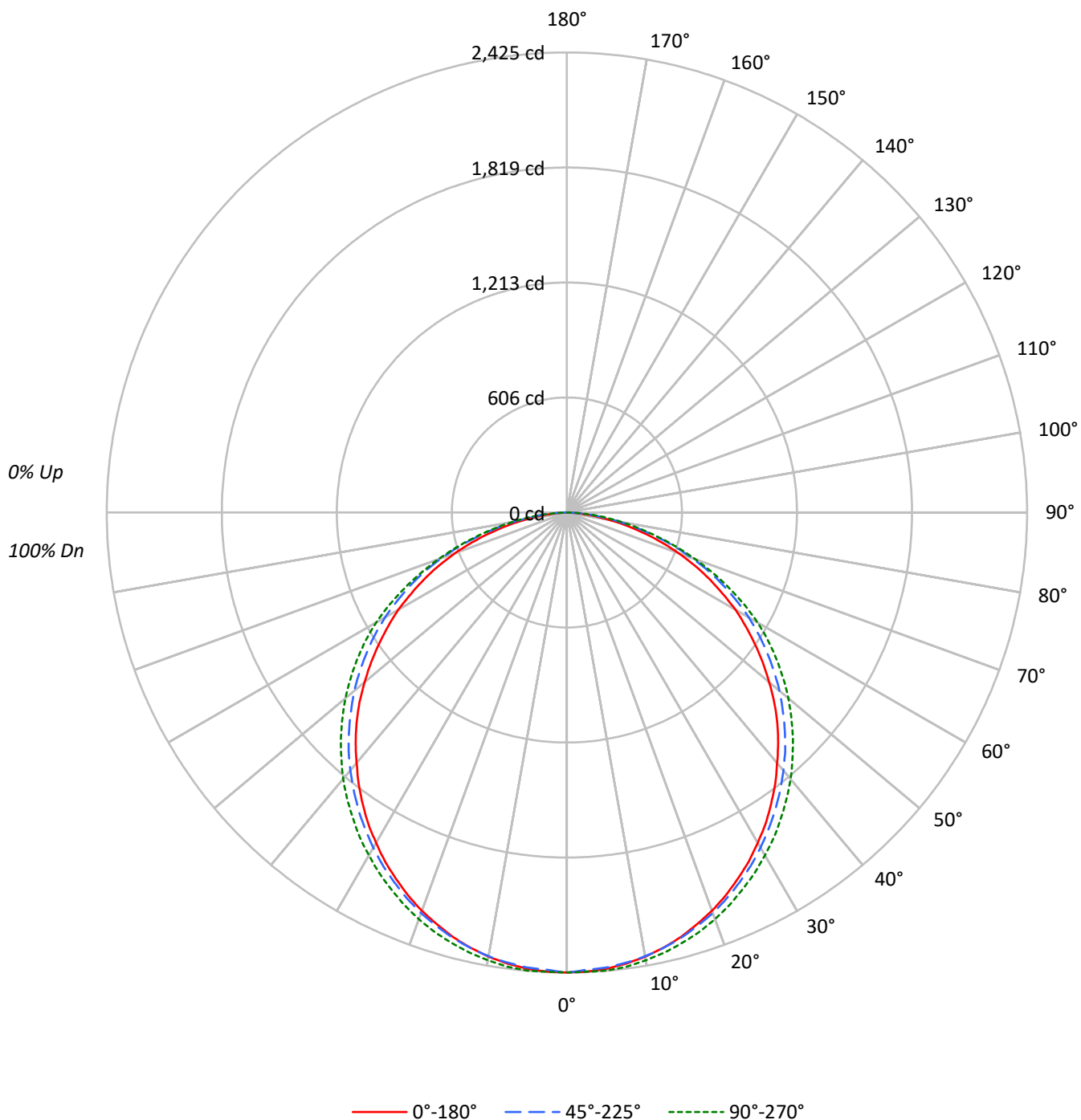
Lumens per Lamp: N/A
Luminaire Lumens: 7005.0 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	8170	8170	8170
5°	8164	8144	8198
10°	8134	8127	8200
15°	8082	8099	8194
20°	8011	8058	8181
25°	7923	7998	8148
30°	7825	7939	8119
35°	7716	7874	8090
40°	7581	7807	8069
45°	7472	7736	8025
50°	7294	7665	7987
55°	7107	7564	7926
60°	6916	7453	7820
65°	6605	7257	7523
70°	6163	6929	7098
75°	5491	6279	6463
80°	4484	5443	5717
85°	2965	4330	4643

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8025 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.7	3.3
10°-20°	657.8	9.4
20°-30°	996.0	14.2
30°-40°	1202.2	17.2
40°-50°	1255.5	17.9
50°-60°	1148.5	16.4
60°-70°	887.9	12.7
70°-80°	502.7	7.2
80°-90°	124.9	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°	1883.4	26.9
0°-40°	3085.6	44.0
0°-60°	5489.6	78.4
0°-90°	7005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7005.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2425	2425	2425	2425	2425	
5°	2414	2431	2408	2410	2424	229
15°	2317	2337	2322	2333	2349	653
25°	2131	2158	2151	2172	2192	982
35°	1876	1902	1914	1946	1967	1173
45°	1568	1598	1624	1665	1684	1208
55°	1210	1246	1288	1328	1349	1082
65°	828	863	910	937	944	818
75°	422	458	482	494	496	447
85°	77	89	112	117	120	99
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2424.7	2424.7	2424.7	2424.7	2424.7
2.5°	2421.7	2438.9	2412.6	2417.7	2422.7
5°	2413.6	2430.8	2407.6	2409.6	2423.7
7.5°	2398.5	2417.7	2393.4	2397.5	2414.6
10°	2377.3	2396.5	2375.3	2379.3	2396.5
12.5°	2350.1	2369.2	2351.1	2357.1	2376.3
15°	2316.8	2336.9	2321.8	2332.9	2349.0
17.5°	2276.4	2301.6	2285.5	2302.6	2318.8
20°	2234.0	2259.2	2247.1	2262.3	2281.4
22.5°	2185.6	2210.8	2201.7	2217.9	2239.1
25°	2131.1	2158.3	2151.3	2171.5	2191.6
27.5°	2074.6	2100.8	2098.8	2121.0	2142.2
30°	2011.0	2039.3	2040.3	2066.5	2086.7
32.5°	1947.5	1972.7	1978.7	2008.0	2031.2
35°	1875.8	1902.0	1914.2	1946.4	1966.6
37.5°	1803.2	1832.4	1845.5	1880.9	1902.0
40°	1723.4	1756.7	1774.9	1812.2	1834.4
42.5°	1647.8	1678.0	1702.3	1739.6	1759.8
45°	1568.1	1598.3	1623.5	1664.9	1684.1
47.5°	1482.3	1515.6	1542.8	1583.2	1604.4
50°	1391.5	1427.8	1462.1	1501.5	1523.7
52.5°	1301.7	1337.0	1376.3	1414.7	1436.9
55°	1209.8	1246.2	1287.5	1327.9	1349.1
57.5°	1117.0	1153.3	1198.7	1235.1	1257.3
60°	1026.2	1059.5	1105.9	1142.2	1160.4
62.5°	923.3	961.6	1009.0	1045.4	1055.5
65°	828.4	862.7	910.2	937.4	943.5
67.5°	727.5	761.8	809.3	824.4	833.5
70°	625.6	661.9	703.3	713.4	720.5
72.5°	522.7	560.0	592.3	602.4	608.5
75°	421.8	458.1	482.3	494.4	496.4
77.5°	323.9	357.2	379.4	393.5	393.5
80°	231.1	256.3	280.5	295.6	294.6
82.5°	147.3	166.5	191.7	202.8	209.9
85°	76.7	88.8	112.0	117.0	120.1
87.5°	24.2	31.3	40.4	33.3	32.3
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	18.98	20.63	19.34	20.94	21.26	19.52	21.17	19.88	21.48	21.80
	3H	20.75	22.24	21.13	22.57	22.93	21.38	22.87	21.76	23.20	23.56
	4H	21.37	22.78	21.77	23.13	23.50	22.05	23.46	22.45	23.81	24.18
	6H	21.78	23.08	22.19	23.45	23.84	22.54	23.84	22.95	24.21	24.60
	8H	21.88	23.13	22.30	23.52	23.91	22.69	23.94	23.12	24.33	24.73
	12H	21.93	23.12	22.36	23.51	23.93	22.79	23.99	23.22	24.37	24.80
4H	2H	19.72	21.12	20.11	21.47	21.85	20.14	21.55	20.54	21.89	22.27
	3H	21.71	22.89	22.12	23.29	23.69	22.22	23.40	22.63	23.80	24.20
	4H	22.46	23.53	22.89	23.94	24.38	23.02	24.09	23.45	24.50	24.94
	6H	22.98	23.91	23.43	24.35	24.81	23.63	24.57	24.09	25.01	25.46
	8H	23.11	23.99	23.57	24.43	24.89	23.84	24.71	24.30	25.15	25.62
	12H	23.19	23.98	23.67	24.45	24.92	23.98	24.76	24.45	25.24	25.71
8H	4H	22.81	23.69	23.27	24.13	24.59	23.31	24.18	23.77	24.62	25.09
	6H	23.45	24.17	23.94	24.66	25.14	24.04	24.77	24.53	25.25	25.73
	8H	23.64	24.29	24.15	24.80	25.28	24.31	24.97	24.82	25.47	25.96
	12H	23.77	24.34	24.27	24.83	25.39	24.52	25.10	25.03	25.59	26.15
12H	4H	22.85	23.64	23.33	24.12	24.58	23.33	24.12	23.81	24.59	25.06
	6H	23.51	24.16	24.02	24.67	25.15	24.08	24.74	24.59	25.24	25.73
	8H	23.76	24.34	24.27	24.83	25.39	24.41	24.99	24.92	25.48	26.04