

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: P1585869

Luminaire Tested: 14CZSP-SB-70-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585869
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-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6700 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

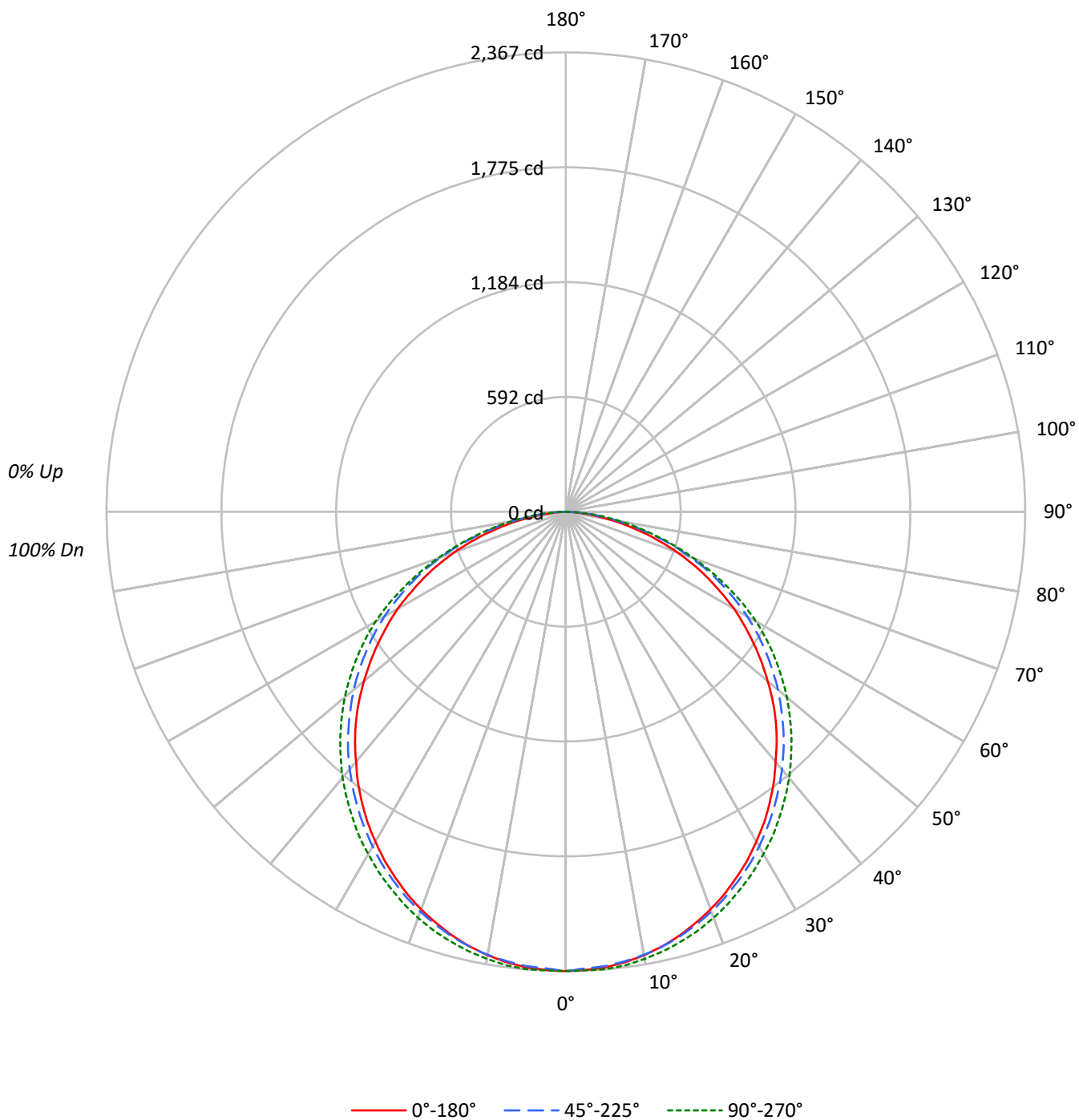
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6837.0 lumens
Efficiency: N/A
Efficacy: 128.0 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): 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°	7974	7974	7974
5°	7968	7948	8002
10°	7939	7932	8003
15°	7888	7905	7998
20°	7819	7864	7985
25°	7733	7807	7953
30°	7637	7748	7925
35°	7531	7685	7896
40°	7399	7620	7875
45°	7293	7551	7833
50°	7119	7481	7796
55°	6937	7383	7735
60°	6750	7274	7633
65°	6447	7083	7342
70°	6016	6762	6928
75°	5360	6129	6308
80°	4376	5313	5581
85°	2892	4226	4531

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7833 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.1	3.3
10°-20°	642.1	9.4
20°-30°	972.1	14.2
30°-40°	1173.4	17.2
40°-50°	1225.3	17.9
50°-60°	1120.9	16.4
60°-70°	866.6	12.7
70°-80°	490.6	7.2
80°-90°	121.9	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°	1838.3	26.9
0°-40°	3011.6	44.0
0°-60°	5357.9	78.4
0°-90°	6837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6837.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2367	2367	2367	2367	2367	
5°	2356	2372	2350	2352	2366	224
15°	2261	2281	2266	2277	2293	638
25°	2080	2107	2100	2119	2139	959
35°	1831	1856	1868	1900	1920	1145
45°	1530	1560	1585	1625	1644	1179
55°	1181	1216	1257	1296	1317	1056
65°	809	842	888	915	921	798
75°	412	447	471	483	484	436
85°	75	87	109	114	117	97
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2366.6	2366.6	2366.6	2366.6	2366.6
2.5°	2363.6	2380.4	2354.8	2359.7	2364.6
5°	2355.7	2372.5	2349.8	2351.8	2365.6
7.5°	2341.0	2359.7	2336.0	2340.0	2356.7
10°	2320.3	2339.0	2318.3	2322.3	2339.0
12.5°	2293.7	2312.4	2294.7	2300.6	2319.3
15°	2261.2	2280.9	2266.1	2277.0	2292.7
17.5°	2221.8	2246.4	2230.7	2247.4	2263.2
20°	2180.4	2205.1	2193.2	2208.0	2226.7
22.5°	2133.2	2157.8	2148.9	2164.7	2185.4
25°	2080.0	2106.6	2099.7	2119.4	2139.1
27.5°	2024.8	2050.4	2048.5	2070.1	2090.8
30°	1962.8	1990.4	1991.4	2017.0	2036.7
32.5°	1900.7	1925.4	1931.3	1959.8	1982.5
35°	1830.8	1856.4	1868.2	1899.8	1919.5
37.5°	1759.9	1788.5	1801.3	1835.7	1856.4
40°	1682.1	1714.6	1732.3	1768.8	1790.4
42.5°	1608.2	1637.8	1661.4	1697.9	1717.6
45°	1530.4	1560.0	1584.6	1625.0	1643.7
47.5°	1446.7	1479.2	1505.8	1545.2	1565.9
50°	1358.1	1393.6	1427.0	1465.4	1487.1
52.5°	1270.4	1304.9	1343.3	1380.7	1402.4
55°	1180.8	1216.3	1256.7	1296.1	1316.7
57.5°	1090.2	1125.7	1170.0	1205.4	1227.1
60°	1001.6	1034.1	1079.4	1114.8	1132.6
62.5°	901.1	938.6	984.8	1020.3	1030.1
65°	808.6	842.0	888.3	914.9	920.8
67.5°	710.1	743.6	789.8	804.6	813.5
70°	610.6	646.1	686.4	696.3	703.2
72.5°	510.1	546.6	578.1	588.0	593.9
75°	411.7	447.1	470.8	482.6	484.5
77.5°	316.1	348.6	370.3	384.1	384.1
80°	225.5	250.1	273.8	288.6	287.6
82.5°	143.8	162.5	187.1	198.0	204.8
85°	74.8	86.7	109.3	114.2	117.2
87.5°	23.6	30.5	39.4	32.5	31.5
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	18.89	20.54	19.26	20.86	21.17	19.43	21.08	19.80	21.40	21.71
	3H	20.67	22.16	21.04	22.49	22.85	21.29	22.79	21.67	23.11	23.47
	4H	21.29	22.70	21.69	23.05	23.42	21.97	23.37	22.36	23.72	24.10
	6H	21.69	23.00	22.11	23.36	23.75	22.45	23.76	22.86	24.12	24.51
	8H	21.80	23.04	22.22	23.43	23.83	22.61	23.86	23.03	24.24	24.64
	12H	21.84	23.04	22.27	23.42	23.85	22.71	23.90	23.14	24.28	24.71
4H	2H	19.63	21.04	20.03	21.39	21.76	20.05	21.46	20.45	21.81	22.18
	3H	21.62	22.81	22.03	23.20	23.60	22.13	23.31	22.54	23.71	24.11
	4H	22.37	23.44	22.81	23.86	24.29	22.93	24.00	23.36	24.42	24.85
	6H	22.89	23.83	23.35	24.27	24.72	23.55	24.48	24.00	24.92	25.38
	8H	23.03	23.90	23.49	24.35	24.81	23.75	24.63	24.21	25.07	25.53
	12H	23.10	23.89	23.58	24.37	24.84	23.89	24.68	24.37	25.15	25.62
8H	4H	22.73	23.60	23.19	24.05	24.51	23.22	24.10	23.68	24.54	25.00
	6H	23.36	24.09	23.85	24.58	25.05	23.96	24.68	24.45	25.17	25.65
	8H	23.56	24.21	24.06	24.71	25.20	24.23	24.88	24.74	25.39	25.87
	12H	23.68	24.26	24.19	24.75	25.31	24.44	25.01	24.94	25.50	26.06
12H	4H	22.77	23.56	23.25	24.03	24.50	23.25	24.03	23.73	24.51	24.98
	6H	23.43	24.08	23.93	24.59	25.07	24.00	24.65	24.51	25.16	25.64
	8H	23.68	24.25	24.18	24.74	25.30	24.33	24.90	24.83	25.39	25.95