

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: P1585688

Luminaire Tested: 14CZSP-SB-42-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585688
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-42-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

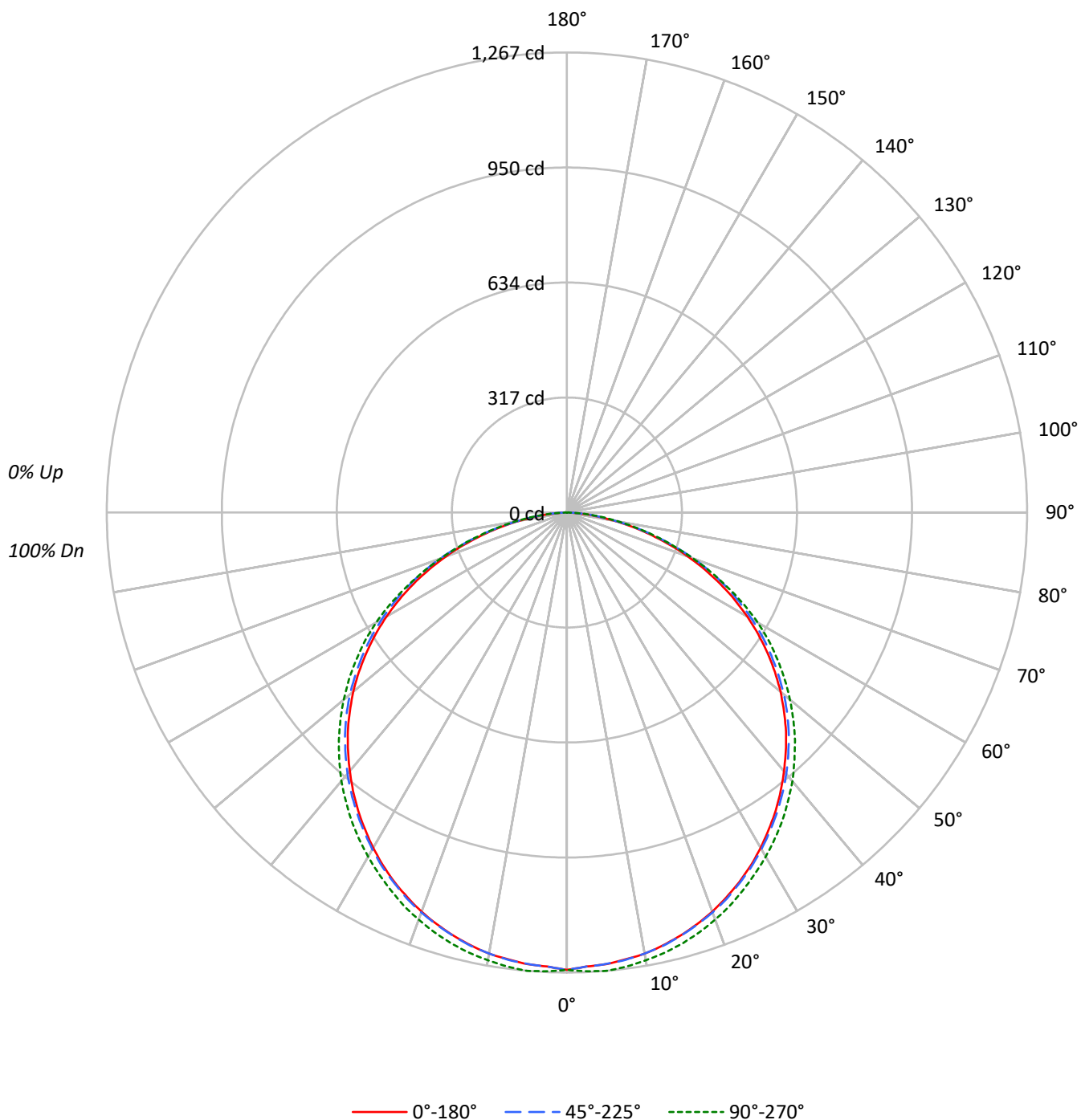
Lumens per Lamp: N/A
Luminaire Lumens: 3717.0 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.5
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	99	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4244	4244	4244
5°	4224	4222	4286
10°	4222	4220	4284
15°	4209	4213	4287
20°	4196	4204	4280
25°	4175	4186	4266
30°	4150	4168	4259
35°	4123	4149	4256
40°	4091	4133	4249
45°	4066	4117	4231
50°	4025	4088	4204
55°	3962	4036	4163
60°	3866	3966	4089
65°	3721	3862	3903
70°	3499	3662	3639
75°	3141	3276	3298
80°	2596	2728	2872
85°	1740	2026	2134

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4231 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	3.2
10°-20°	343.1	9.2
20°-30°	522.5	14.1
30°-40°	635.9	17.1
40°-50°	670.4	18.0
50°-60°	617.5	16.6
60°-70°	476.9	12.8
70°-80°	266.9	7.2
80°-90°	64.3	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°	985.1	26.5
0°-40°	1621.0	43.6
0°-60°	2908.9	78.3
0°-90°	3717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3717.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1260	1260	1260	1260	1260	
5°	1249	1266	1248	1250	1267	119
15°	1207	1223	1208	1215	1229	341
25°	1123	1139	1126	1133	1147	518
35°	1002	1017	1009	1021	1035	627
45°	853	865	864	877	888	657
55°	674	686	687	701	709	602
65°	467	480	484	489	490	461
75°	241	256	252	251	253	256
85°	45	50	52	59	55	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1259.6	1259.6	1259.6	1259.6	1259.6
2.5°	1251.6	1269.8	1251.6	1254.4	1264.7
5°	1248.7	1266.4	1248.2	1249.9	1267.0
7.5°	1241.3	1259.6	1242.5	1244.8	1261.3
10°	1233.9	1250.4	1233.4	1236.2	1252.2
12.5°	1221.4	1238.5	1222.6	1226.0	1241.9
15°	1206.6	1223.1	1207.8	1214.6	1228.8
17.5°	1189.5	1205.5	1190.7	1198.7	1212.3
20°	1170.2	1185.6	1172.5	1178.2	1193.5
22.5°	1147.4	1163.4	1150.8	1156.0	1172.5
25°	1123.0	1138.9	1125.8	1133.2	1147.4
27.5°	1096.2	1111.6	1100.2	1109.3	1121.8
30°	1066.6	1081.4	1071.2	1082.0	1094.5
32.5°	1034.7	1050.7	1040.4	1052.9	1065.5
35°	1002.3	1017.1	1008.6	1021.1	1034.7
37.5°	967.0	981.2	975.0	988.1	1000.6
40°	930.0	945.9	939.7	953.3	965.9
42.5°	891.9	907.2	902.1	916.4	927.2
45°	853.2	865.1	864.0	877.1	887.9
47.5°	810.5	825.3	823.0	836.1	845.8
50°	767.8	779.8	779.8	792.3	801.9
52.5°	721.7	733.6	733.6	748.4	756.4
55°	674.5	685.8	687.0	701.2	708.6
57.5°	624.4	636.3	638.6	652.8	659.7
60°	573.7	585.1	588.5	602.7	606.7
62.5°	520.8	534.4	536.2	547.5	549.8
65°	466.7	480.4	484.4	488.9	489.5
67.5°	411.5	425.7	429.7	429.7	429.7
70°	355.2	368.2	371.7	369.4	369.4
72.5°	298.2	312.5	310.8	308.5	309.6
75°	241.3	256.1	251.6	251.0	253.3
77.5°	186.7	200.9	193.5	198.1	198.6
80°	133.8	144.6	140.6	147.4	148.0
82.5°	85.9	92.8	93.9	99.6	97.9
85°	45.0	49.5	52.4	58.6	55.2
87.5°	14.2	18.8	17.1	19.9	15.4
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	17.06	18.71	17.42	19.03	19.34	17.27	18.93	17.64	19.24	19.56
	3H	18.88	20.38	19.25	20.70	21.06	19.07	20.57	19.45	20.90	21.26
	4H	19.52	20.94	19.92	21.28	21.66	19.71	21.12	20.11	21.47	21.85
	6H	19.95	21.26	20.36	21.63	22.02	20.16	21.47	20.57	21.84	22.23
	8H	20.06	21.31	20.49	21.70	22.10	20.30	21.55	20.72	21.94	22.33
	12H	20.12	21.31	20.54	21.70	22.12	20.37	21.57	20.80	21.95	22.38
4H	2H	17.74	19.15	18.13	19.50	19.87	17.91	19.32	18.30	19.67	20.04
	3H	19.78	20.96	20.19	21.36	21.76	19.92	21.11	20.33	21.50	21.90
	4H	20.56	21.63	20.99	22.04	22.48	20.68	21.75	21.11	22.16	22.60
	6H	21.11	22.04	21.56	22.48	22.94	21.25	22.19	21.71	22.63	23.08
	8H	21.25	22.13	21.71	22.57	23.04	21.43	22.30	21.89	22.75	23.21
	12H	21.34	22.13	21.82	22.60	23.07	21.54	22.33	22.02	22.80	23.27
8H	4H	20.86	21.74	21.32	22.18	22.65	20.97	21.85	21.43	22.29	22.76
	6H	21.52	22.25	22.02	22.74	23.21	21.65	22.38	22.15	22.87	23.34
	8H	21.73	22.38	22.24	22.89	23.37	21.89	22.55	22.40	23.05	23.54
	12H	21.86	22.44	22.37	22.93	23.49	22.07	22.65	22.58	23.14	23.70
12H	4H	20.90	21.68	21.37	22.16	22.63	21.00	21.79	21.48	22.26	22.73
	6H	21.57	22.22	22.08	22.73	23.22	21.70	22.35	22.20	22.86	23.34
	8H	21.83	22.40	22.33	22.89	23.45	21.99	22.56	22.49	23.05	23.61

END OF REPORT