

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: P1584664

Luminaire Tested: 14CZSP-A-52-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-52-L935-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

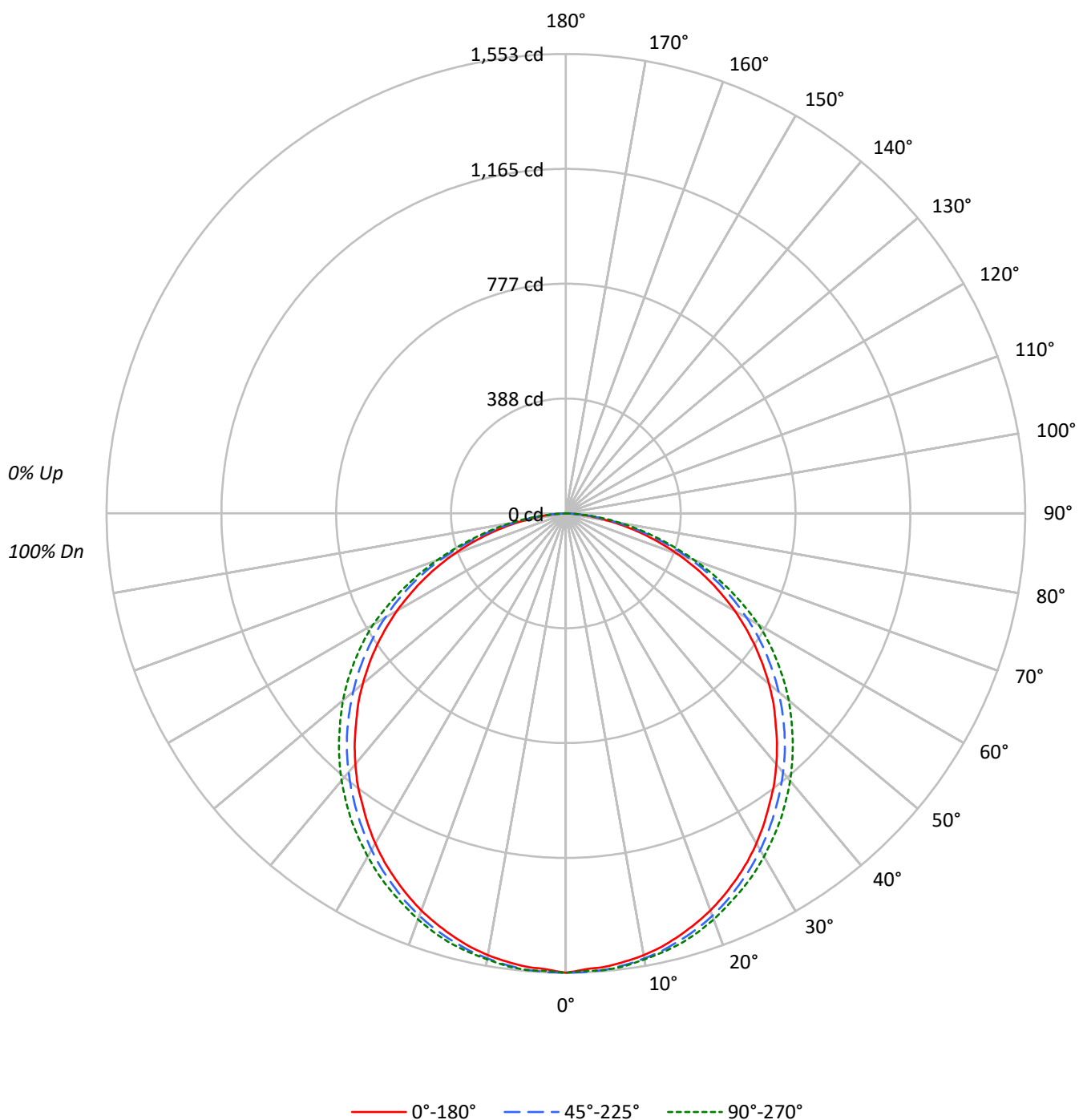
Lumens per Lamp: N/A
Luminaire Lumens: 4490.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.9
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			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	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	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	59	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°	5233	5233	5233
5°	5204	5238	5242
10°	5189	5228	5239
15°	5160	5213	5249
20°	5123	5192	5240
25°	5072	5153	5224
30°	5014	5112	5212
35°	4934	5067	5203
40°	4869	5026	5189
45°	4778	4982	5168
50°	4698	4923	5159
55°	4585	4853	5125
60°	4445	4756	5073
65°	4247	4627	4864
70°	3959	4369	4564
75°	3536	3941	4165
80°	2899	3322	3642
85°	1941	2428	2710

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5168 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	3.3
10°-20°	421.7	9.4
20°-30°	638.5	14.2
30°-40°	771.1	17.2
40°-50°	805.8	17.9
50°-60°	738.4	16.4
60°-70°	570.0	12.7
70°-80°	320.6	7.1
80°-90°	76.7	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°	1207.3	26.9
0°-40°	1978.4	44.1
0°-60°	3522.7	78.5
0°-90°	4490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1539	1550	1548	1550	1550	146
15°	1479	1491	1494	1500	1505	417
25°	1364	1376	1386	1393	1405	629
35°	1200	1215	1232	1248	1265	752
45°	1003	1022	1046	1067	1084	775
55°	780	801	826	852	872	697
65°	533	556	580	603	610	526
75°	272	297	303	315	320	288
85°	50	58	63	69	70	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1553.1	1553.1	1553.1	1553.1	1553.1
2.5°	1542.5	1554.4	1551.8	1555.7	1548.5
5°	1538.6	1549.8	1548.5	1549.8	1549.8
7.5°	1528.6	1540.5	1539.9	1541.9	1543.2
10°	1516.7	1528.0	1528.0	1530.0	1531.3
12.5°	1500.2	1512.1	1513.4	1516.7	1519.4
15°	1479.1	1491.0	1494.3	1500.2	1504.8
17.5°	1455.3	1467.8	1473.1	1479.1	1485.0
20°	1428.8	1440.1	1448.0	1452.6	1461.2
22.5°	1397.8	1410.3	1418.9	1423.6	1432.8
25°	1364.1	1376.0	1385.9	1393.2	1405.1
27.5°	1328.4	1340.3	1352.2	1360.8	1374.7
30°	1288.7	1301.3	1313.9	1327.1	1339.6
32.5°	1245.8	1260.3	1274.2	1288.7	1302.6
35°	1199.5	1214.7	1231.9	1248.4	1264.9
37.5°	1156.6	1170.4	1188.3	1206.1	1222.6
40°	1107.0	1122.2	1142.7	1162.5	1179.7
42.5°	1056.8	1073.3	1095.8	1114.9	1133.4
45°	1002.6	1022.4	1045.5	1066.7	1084.5
47.5°	952.3	969.5	992.7	1015.8	1034.3
50°	896.2	915.3	939.1	963.6	984.1
52.5°	839.3	859.2	883.6	908.1	929.2
55°	780.5	801.0	826.1	851.9	872.4
57.5°	720.4	742.2	768.0	793.7	814.2
60°	659.6	681.4	705.8	734.3	752.8
62.5°	596.1	620.6	643.7	670.1	681.4
65°	532.7	555.8	580.3	603.4	610.0
67.5°	467.9	491.7	513.5	528.7	537.3
70°	401.8	427.6	443.5	458.0	463.3
72.5°	336.4	362.2	371.4	385.3	390.6
75°	271.6	296.7	302.7	315.2	319.9
77.5°	208.8	232.0	234.0	248.5	252.5
80°	149.4	167.9	171.2	185.0	187.7
82.5°	95.8	109.0	113.7	125.6	129.5
85°	50.2	57.5	62.8	68.7	70.1
87.5°	16.5	20.5	17.2	17.8	16.5
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	17.46	19.11	17.83	19.43	19.74	18.00	19.65	18.37	19.97	20.28
	3H	19.24	20.73	19.61	21.06	21.42	19.86	21.35	20.24	21.68	22.04
	4H	19.86	21.27	20.26	21.62	21.99	20.53	21.94	20.93	22.28	22.66
	6H	20.27	21.58	20.68	21.94	22.33	21.00	22.31	21.42	22.67	23.06
	8H	20.38	21.62	20.80	22.01	22.41	21.15	22.40	21.57	22.79	23.18
	12H	20.43	21.62	20.86	22.00	22.43	21.23	22.43	21.66	22.81	23.24
4H	2H	18.19	19.59	18.58	19.94	20.32	18.61	20.02	19.01	20.36	20.74
	3H	20.18	21.36	20.59	21.76	22.16	20.68	21.86	21.09	22.26	22.66
	4H	20.94	22.01	21.37	22.42	22.86	21.48	22.55	21.91	22.96	23.39
	6H	21.47	22.40	21.92	22.84	23.30	22.08	23.01	22.53	23.45	23.91
	8H	21.61	22.48	22.07	22.92	23.39	22.27	23.14	22.73	23.59	24.05
	12H	21.68	22.47	22.16	22.94	23.41	22.39	23.18	22.87	23.65	24.12
8H	4H	21.28	22.15	21.74	22.59	23.06	21.75	22.63	22.21	23.07	23.53
	6H	21.92	22.64	22.41	23.13	23.60	22.47	23.19	22.96	23.68	24.15
	8H	22.12	22.77	22.62	23.27	23.76	22.72	23.37	23.23	23.88	24.36
	12H	22.25	22.82	22.75	23.31	23.87	22.90	23.48	23.41	23.97	24.53
12H	4H	21.31	22.10	21.79	22.57	23.04	21.78	22.56	22.26	23.04	23.51
	6H	21.97	22.62	22.48	23.13	23.61	22.50	23.15	23.01	23.66	24.15
	8H	22.22	22.80	22.73	23.29	23.85	22.81	23.38	23.32	23.88	24.43