

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: P1584331

Luminaire Tested: 14CZSP-47-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-724-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-47-L950
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

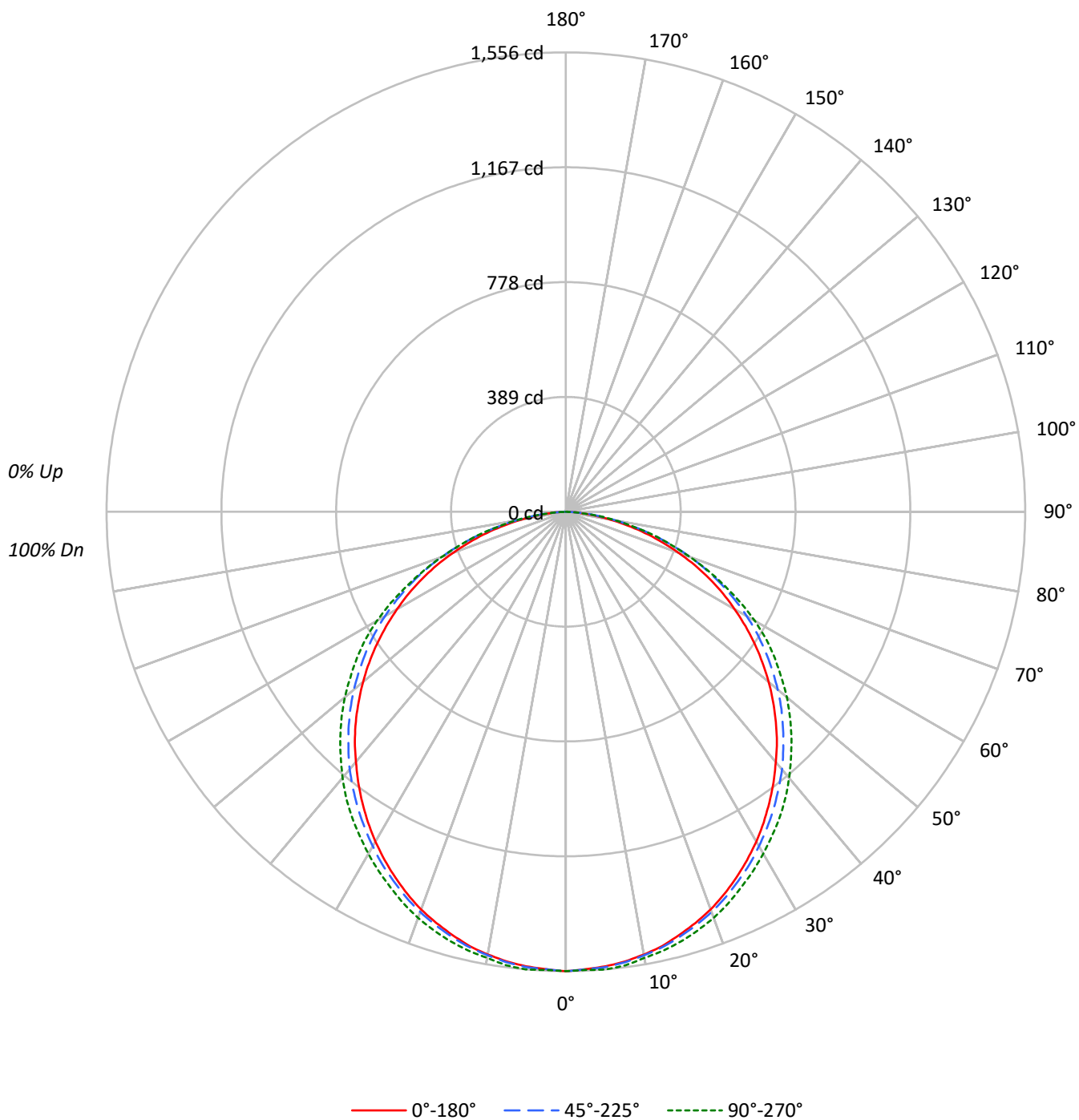
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4490.0 lumens
Efficiency: N/A
Efficacy: 136.9 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): 32.8
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	53		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	29		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°	5243	5243	5243
5°	5227	5236	5263
10°	5210	5220	5251
15°	5178	5201	5256
20°	5141	5174	5250
25°	5083	5132	5221
30°	5019	5091	5205
35°	4944	5048	5196
40°	4866	5012	5176
45°	4795	4960	5151
50°	4703	4912	5122
55°	4590	4848	5075
60°	4449	4773	4979
65°	4277	4638	4734
70°	4013	4407	4407
75°	3605	4003	4020
80°	2971	3384	3384
85°	2057	2470	2161

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5151 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	3.3
10°-20°	422.1	9.4
20°-30°	638.9	14.2
30°-40°	771.3	17.2
40°-50°	805.8	17.9
50°-60°	738.2	16.4
60°-70°	569.1	12.7
70°-80°	321.1	7.2
80°-90°	76.0	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°	1208.4	26.9
0°-40°	1979.7	44.1
0°-60°	3523.8	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°	1556	1556	1556	1556	1556	
5°	1545	1556	1548	1551	1556	147
15°	1484	1494	1491	1503	1507	419
25°	1367	1379	1380	1399	1404	630
35°	1202	1218	1227	1254	1263	752
45°	1006	1024	1041	1072	1081	776
55°	781	801	825	856	864	698
65°	536	554	582	602	594	530
75°	277	298	308	316	309	294
85°	53	60	64	68	56	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1556.1	1556.1	1556.1	1556.1	1556.1
2.5°	1550.8	1561.4	1550.8	1556.1	1553.4
5°	1545.4	1556.1	1548.1	1550.8	1556.1
7.5°	1536.1	1546.8	1538.8	1542.8	1549.4
10°	1522.8	1533.5	1525.5	1532.1	1534.8
12.5°	1506.8	1516.2	1510.8	1518.8	1522.8
15°	1484.2	1493.5	1490.9	1502.8	1506.8
17.5°	1460.2	1470.9	1468.2	1482.9	1486.9
20°	1433.6	1442.9	1442.9	1456.3	1464.2
22.5°	1401.7	1412.3	1413.7	1428.3	1436.3
25°	1367.1	1379.0	1380.4	1399.0	1404.3
27.5°	1329.8	1341.8	1347.1	1367.1	1372.4
30°	1289.9	1301.8	1308.5	1331.1	1337.8
32.5°	1247.3	1261.9	1268.6	1293.9	1300.5
35°	1202.0	1218.0	1227.3	1253.9	1263.2
37.5°	1155.4	1171.4	1183.4	1211.3	1222.0
40°	1106.2	1123.5	1139.4	1167.4	1176.7
42.5°	1058.2	1075.6	1090.2	1119.5	1128.8
45°	1006.3	1023.6	1040.9	1071.6	1080.9
47.5°	951.8	970.4	990.4	1018.3	1030.3
50°	897.2	915.8	937.1	966.4	977.0
52.5°	839.9	859.9	881.2	911.8	919.8
55°	781.4	801.3	825.3	855.9	863.9
57.5°	721.5	742.8	768.1	797.3	805.3
60°	660.2	681.5	708.2	736.1	738.8
62.5°	600.3	619.0	645.6	672.2	668.2
65°	536.4	553.7	581.7	601.7	593.7
67.5°	472.6	491.2	516.5	531.1	520.5
70°	407.3	427.3	447.3	457.9	447.3
72.5°	342.1	363.4	378.0	384.7	375.4
75°	276.9	298.2	307.5	315.5	308.8
77.5°	214.3	234.3	238.3	247.6	238.3
80°	153.1	171.7	174.4	183.7	174.4
82.5°	98.5	110.5	115.8	123.8	114.5
85°	53.2	59.9	63.9	67.9	55.9
87.5°	18.6	21.3	18.6	16.0	6.7
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	17.47	19.12	17.83	19.43	19.75	18.01	19.66	18.38	19.98	20.29
	3H	19.26	20.75	19.63	21.08	21.44	19.82	21.31	20.20	21.64	22.00
	4H	19.90	21.30	20.29	21.65	22.03	20.47	21.87	20.86	22.22	22.59
	6H	20.32	21.63	20.73	21.99	22.38	20.91	22.21	21.32	22.57	22.96
	8H	20.43	21.68	20.85	22.06	22.46	21.03	22.27	21.45	22.66	23.06
	12H	20.48	21.68	20.91	22.06	22.49	21.09	22.28	21.51	22.66	23.09
4H	2H	18.20	19.60	18.59	19.95	20.33	18.62	20.03	19.02	20.38	20.75
	3H	20.20	21.38	20.61	21.78	22.18	20.66	21.84	21.07	22.23	22.63
	4H	20.97	22.04	21.40	22.45	22.89	21.44	22.51	21.87	22.92	23.35
	6H	21.52	22.45	21.97	22.89	23.34	22.01	22.94	22.46	23.38	23.83
	8H	21.66	22.53	22.12	22.98	23.44	22.17	23.04	22.63	23.49	23.95
	12H	21.74	22.53	22.22	23.00	23.47	22.26	23.05	22.74	23.52	23.99
8H	4H	21.31	22.19	21.77	22.63	23.09	21.73	22.60	22.19	23.04	23.51
	6H	21.97	22.70	22.47	23.19	23.66	22.41	23.13	22.90	23.62	24.10
	8H	22.18	22.83	22.69	23.33	23.82	22.64	23.29	23.15	23.80	24.28
	12H	22.32	22.89	22.82	23.38	23.94	22.79	23.37	23.30	23.86	24.42
12H	4H	21.35	22.14	21.83	22.61	23.08	21.75	22.54	22.23	23.01	23.48
	6H	22.03	22.68	22.54	23.19	23.67	22.45	23.10	22.96	23.61	24.09
	8H	22.29	22.86	22.79	23.35	23.91	22.73	23.31	23.24	23.80	24.36