

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: P1584327

Luminaire Tested: 14CZSP-47-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584327
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-L940
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

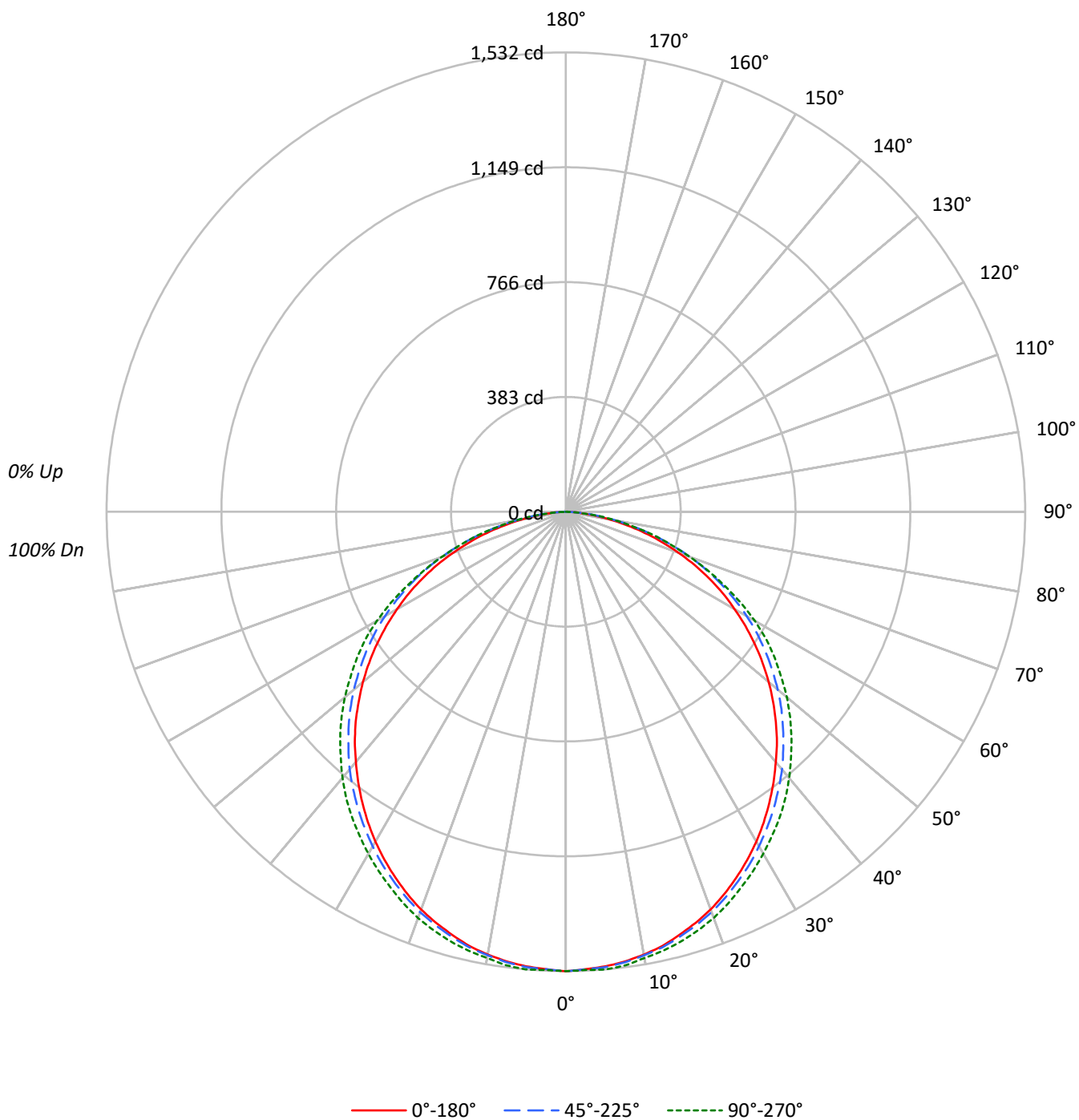
Lumens per Lamp: N/A
Luminaire Lumens: 4421.0 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	5163	5163	5163
5°	5147	5156	5183
10°	5130	5139	5171
15°	5098	5121	5176
20°	5062	5095	5170
25°	5005	5053	5141
30°	4941	5013	5125
35°	4868	4971	5116
40°	4791	4935	5096
45°	4722	4884	5072
50°	4631	4837	5043
55°	4520	4774	4997
60°	4381	4699	4902
65°	4211	4567	4661
70°	3952	4339	4339
75°	3549	3942	3959
80°	2924	3332	3332
85°	2026	2432	2126

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5072 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	3.3
10°-20°	415.7	9.4
20°-30°	629.1	14.2
30°-40°	759.5	17.2
40°-50°	793.4	17.9
50°-60°	726.9	16.4
60°-70°	560.4	12.7
70°-80°	316.2	7.2
80°-90°	74.8	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°	1189.9	26.9
0°-40°	1949.3	44.1
0°-60°	3469.6	78.5
0°-90°	4421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4421.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1522	1532	1524	1527	1532	145
15°	1461	1471	1468	1480	1484	412
25°	1346	1358	1359	1378	1383	620
35°	1184	1199	1208	1235	1244	740
45°	991	1008	1025	1055	1064	764
55°	769	789	813	843	851	687
65°	528	545	573	592	585	522
75°	273	294	303	311	304	289
85°	52	59	63	67	55	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.2	1532.2	1532.2	1532.2	1532.2
2.5°	1526.9	1537.4	1526.9	1532.2	1529.6
5°	1521.7	1532.2	1524.3	1526.9	1532.2
7.5°	1512.5	1523.0	1515.1	1519.1	1525.6
10°	1499.4	1509.9	1502.0	1508.6	1511.2
12.5°	1483.7	1492.9	1487.6	1495.5	1499.4
15°	1461.4	1470.6	1468.0	1479.7	1483.7
17.5°	1437.8	1448.3	1445.7	1460.1	1464.0
20°	1411.6	1420.8	1420.8	1433.9	1441.7
22.5°	1380.1	1390.6	1391.9	1406.4	1414.2
25°	1346.1	1357.9	1359.2	1377.5	1382.8
27.5°	1309.4	1321.2	1326.4	1346.1	1351.3
30°	1270.0	1281.8	1288.4	1310.7	1317.2
32.5°	1228.1	1242.5	1249.1	1274.0	1280.5
35°	1183.5	1199.3	1208.4	1234.7	1243.8
37.5°	1137.7	1153.4	1165.2	1192.7	1203.2
40°	1089.2	1106.2	1121.9	1149.5	1158.6
42.5°	1042.0	1059.0	1073.4	1102.3	1111.5
45°	990.9	1007.9	1024.9	1055.1	1064.3
47.5°	937.1	955.5	975.1	1002.7	1014.5
50°	883.4	901.7	922.7	951.5	962.0
52.5°	827.0	846.7	867.7	897.8	905.7
55°	769.4	789.0	812.6	842.8	850.6
57.5°	710.4	731.4	756.3	785.1	793.0
60°	650.1	671.1	697.3	724.8	727.4
62.5°	591.1	609.5	635.7	661.9	658.0
65°	528.2	545.2	572.8	592.4	584.6
67.5°	465.3	483.6	508.5	523.0	512.5
70°	401.1	420.7	440.4	450.9	440.4
72.5°	336.8	357.8	372.2	378.8	369.6
75°	272.6	293.6	302.8	310.6	304.1
77.5°	211.0	230.7	234.6	243.8	234.6
80°	150.7	169.1	171.7	180.9	171.7
82.5°	97.0	108.8	114.0	121.9	112.7
85°	52.4	59.0	62.9	66.8	55.0
87.5°	18.3	21.0	18.3	15.7	6.6
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	17.42	19.07	17.78	19.38	19.69	17.96	19.61	18.32	19.92	20.24
	3H	19.20	20.70	19.58	21.02	21.38	19.77	21.26	20.14	21.59	21.95
	4H	19.84	21.25	20.24	21.60	21.97	20.41	21.82	20.81	22.17	22.54
	6H	20.27	21.57	20.68	21.94	22.33	20.85	22.16	21.26	22.52	22.91
	8H	20.38	21.62	20.80	22.01	22.41	20.97	22.22	21.40	22.61	23.01
	12H	20.43	21.62	20.86	22.01	22.43	21.03	22.23	21.46	22.61	23.04
4H	2H	18.14	19.55	18.54	19.90	20.27	18.57	19.97	18.97	20.32	20.70
	3H	20.15	21.33	20.56	21.73	22.13	20.60	21.78	21.01	22.18	22.58
	4H	20.92	21.98	21.35	22.40	22.83	21.38	22.45	21.81	22.86	23.30
	6H	21.46	22.39	21.91	22.83	23.29	21.95	22.88	22.40	23.33	23.78
	8H	21.61	22.48	22.07	22.92	23.39	22.12	22.99	22.58	23.43	23.90
	12H	21.69	22.48	22.17	22.95	23.42	22.21	22.99	22.69	23.47	23.94
8H	4H	21.26	22.13	21.72	22.58	23.04	21.67	22.55	22.13	22.99	23.45
	6H	21.92	22.64	22.41	23.13	23.61	22.35	23.08	22.85	23.57	24.04
	8H	22.12	22.78	22.63	23.28	23.77	22.59	23.24	23.10	23.74	24.23
	12H	22.26	22.84	22.77	23.33	23.89	22.74	23.31	23.24	23.80	24.36
12H	4H	21.30	22.08	21.78	22.56	23.03	21.70	22.48	22.18	22.96	23.43
	6H	21.97	22.63	22.48	23.13	23.62	22.39	23.05	22.90	23.55	24.04
	8H	22.23	22.81	22.74	23.30	23.86	22.68	23.25	23.19	23.74	24.30