

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: P1585742

Luminaire Tested: 14CZSP-SB-49HE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585742
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-49HE-L930-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

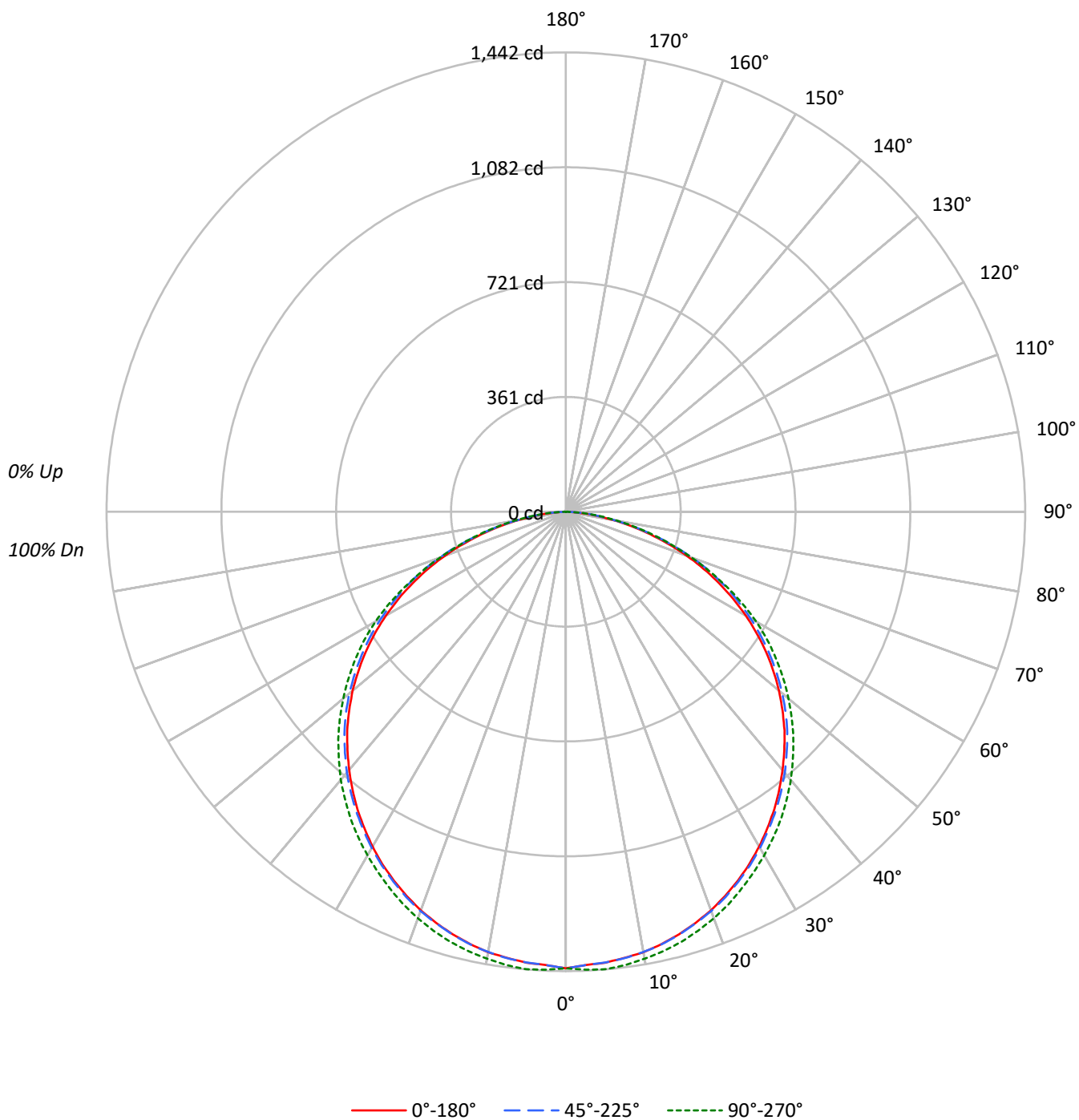
Lumens per Lamp: N/A
Luminaire Lumens: 4229.0 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 33.1
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°	4829	4829	4829
5°	4805	4803	4876
10°	4804	4801	4874
15°	4789	4793	4877
20°	4774	4783	4869
25°	4750	4762	4854
30°	4722	4742	4845
35°	4691	4720	4843
40°	4654	4703	4834
45°	4626	4684	4814
50°	4580	4651	4783
55°	4508	4592	4736
60°	4399	4513	4652
65°	4234	4394	4440
70°	3981	4166	4141
75°	3575	3726	3752
80°	2953	3103	3268
85°	1979	2304	2428

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4814 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	3.2
10°-20°	390.4	9.2
20°-30°	594.5	14.1
30°-40°	723.5	17.1
40°-50°	762.8	18.0
50°-60°	702.6	16.6
60°-70°	542.6	12.8
70°-80°	303.6	7.2
80°-90°	73.2	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°	1120.7	26.5
0°-40°	1844.3	43.6
0°-60°	3309.6	78.3
0°-90°	4229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4229.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1421	1441	1420	1422	1442	135
15°	1373	1392	1374	1382	1398	388
25°	1278	1296	1281	1289	1306	589
35°	1140	1157	1148	1162	1177	713
45°	971	984	983	998	1010	748
55°	767	780	782	798	806	685
65°	531	546	551	556	557	525
75°	275	291	286	286	288	291
85°	51	56	60	67	63	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1433.1	1433.1	1433.1	1433.1	1433.1
2.5°	1424.0	1444.7	1424.0	1427.2	1438.9
5°	1420.7	1440.8	1420.1	1422.0	1441.5
7.5°	1412.3	1433.1	1413.6	1416.2	1435.0
10°	1403.9	1422.7	1403.3	1406.5	1424.6
12.5°	1389.7	1409.1	1391.0	1394.8	1413.0
15°	1372.8	1391.6	1374.1	1381.9	1398.1
17.5°	1353.4	1371.5	1354.7	1363.8	1379.3
20°	1331.4	1348.9	1334.0	1340.5	1357.9
22.5°	1305.5	1323.6	1309.4	1315.2	1334.0
25°	1277.6	1295.8	1280.9	1289.3	1305.5
27.5°	1247.2	1264.7	1251.7	1262.1	1276.3
30°	1213.5	1230.4	1218.7	1231.0	1245.3
32.5°	1177.3	1195.4	1183.7	1198.0	1212.2
35°	1140.4	1157.2	1147.5	1161.7	1177.3
37.5°	1100.2	1116.4	1109.3	1124.2	1138.4
40°	1058.1	1076.2	1069.1	1084.7	1098.9
42.5°	1014.7	1032.2	1026.4	1042.6	1054.9
45°	970.7	984.3	983.0	997.9	1010.2
47.5°	922.1	939.0	936.4	951.3	962.3
50°	873.6	887.2	887.2	901.4	912.4
52.5°	821.1	834.7	834.7	851.5	860.6
55°	767.4	780.3	781.6	797.8	806.2
57.5°	710.4	724.0	726.6	742.8	750.5
60°	652.7	665.7	669.6	685.8	690.3
62.5°	592.5	608.1	610.0	623.0	625.5
65°	531.0	546.5	551.1	556.3	556.9
67.5°	468.2	484.4	488.9	488.9	488.9
70°	404.1	419.0	422.9	420.3	420.3
72.5°	339.3	355.5	353.6	351.0	352.3
75°	274.6	291.4	286.2	285.6	288.2
77.5°	212.4	228.6	220.2	225.4	226.0
80°	152.2	164.5	159.9	167.7	168.4
82.5°	97.8	105.6	106.8	113.3	111.4
85°	51.2	56.3	59.6	66.7	62.8
87.5°	16.2	21.4	19.4	22.7	17.5
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	17.51	19.16	17.87	19.48	19.79	17.72	19.38	18.09	19.69	20.01
	3H	19.33	20.83	19.70	21.15	21.51	19.52	21.02	19.90	21.35	21.71
	4H	19.97	21.39	20.37	21.73	22.11	20.16	21.57	20.56	21.92	22.29
	6H	20.40	21.71	20.81	22.07	22.47	20.61	21.92	21.02	22.29	22.68
	8H	20.51	21.76	20.93	22.15	22.55	20.75	22.00	21.17	22.39	22.78
	12H	20.56	21.76	20.99	22.14	22.57	20.82	22.02	21.25	22.40	22.83
4H	2H	18.18	19.60	18.58	19.94	20.32	18.35	19.77	18.75	20.11	20.49
	3H	20.23	21.41	20.63	21.81	22.21	20.37	21.55	20.78	21.95	22.35
	4H	21.01	22.08	21.44	22.49	22.93	21.13	22.20	21.56	22.61	23.05
	6H	21.56	22.49	22.01	22.93	23.39	21.70	22.64	22.15	23.08	23.53
	8H	21.70	22.58	22.16	23.02	23.49	21.88	22.75	22.33	23.19	23.66
	12H	21.79	22.57	22.26	23.05	23.52	21.99	22.78	22.47	23.25	23.72
8H	4H	21.31	22.19	21.77	22.63	23.10	21.42	22.30	21.88	22.74	23.20
	6H	21.97	22.70	22.47	23.19	23.66	22.10	22.83	22.60	23.32	23.79
	8H	22.18	22.83	22.69	23.34	23.82	22.34	23.00	22.85	23.50	23.99
	12H	22.31	22.89	22.82	23.38	23.94	22.52	23.10	23.02	23.59	24.15
12H	4H	21.34	22.13	21.82	22.61	23.08	21.45	22.24	21.93	22.71	23.18
	6H	22.02	22.67	22.53	23.18	23.66	22.14	22.80	22.65	23.30	23.79
	8H	22.27	22.85	22.78	23.34	23.90	22.43	23.01	22.94	23.50	24.06