

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: P1585848

Luminaire Tested: 14CZSP-SB-65-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585848
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-65-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6200 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

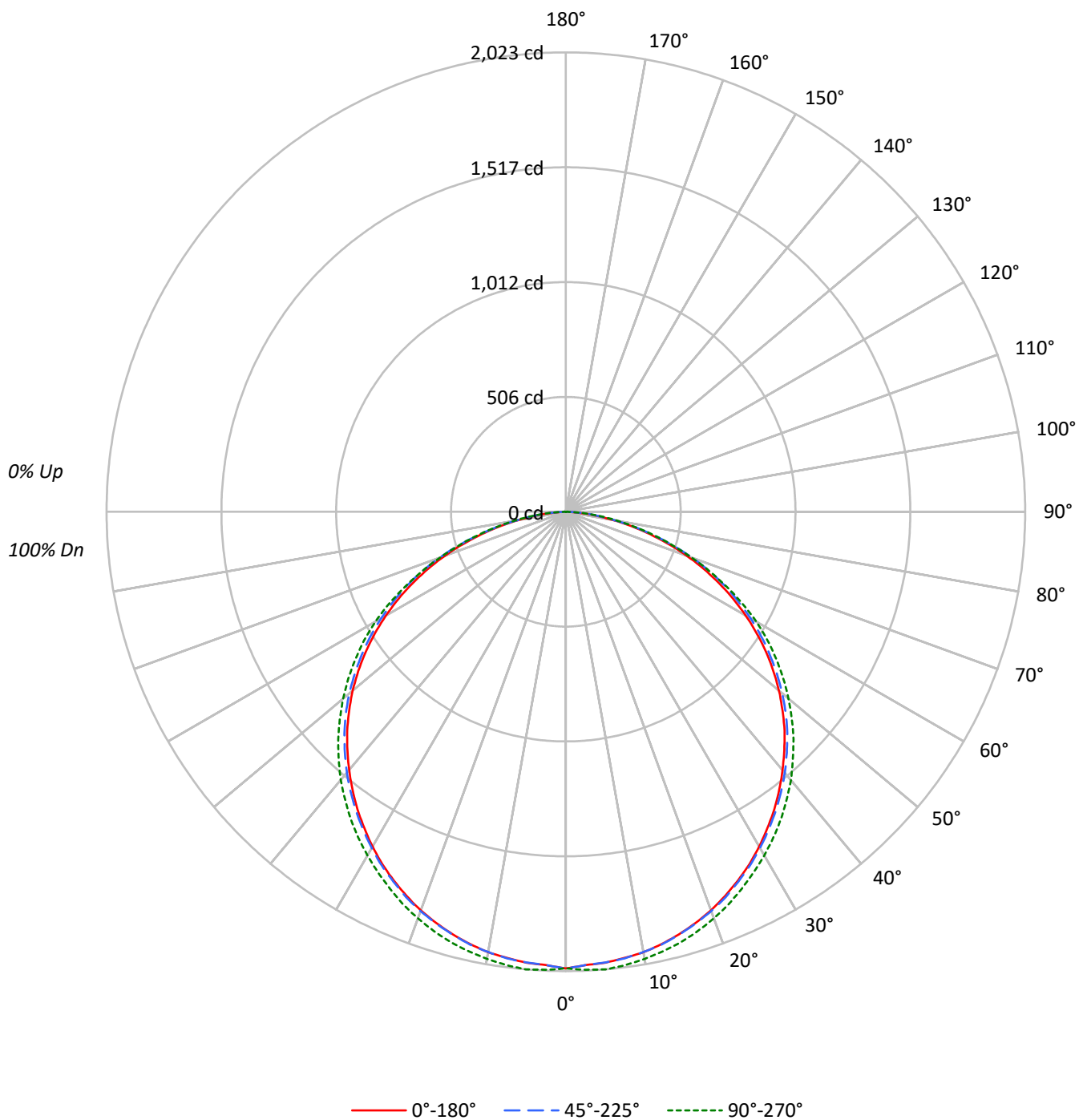
Lumens per Lamp: N/A
Luminaire Lumens: 5934.0 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 48.8
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	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°	6776	6776	6776
5°	6743	6740	6841
10°	6740	6737	6840
15°	6720	6726	6843
20°	6699	6712	6832
25°	6665	6682	6810
30°	6625	6654	6798
35°	6582	6623	6795
40°	6531	6599	6783
45°	6490	6573	6755
50°	6426	6525	6712
55°	6325	6443	6646
60°	6172	6331	6528
65°	5941	6166	6230
70°	5586	5845	5810
75°	5016	5228	5264
80°	4143	4354	4583
85°	2776	3232	3406

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6755 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.6	3.2
10°-20°	547.8	9.2
20°-30°	834.2	14.1
30°-40°	1015.3	17.1
40°-50°	1070.3	18.0
50°-60°	985.8	16.6
60°-70°	761.3	12.8
70°-80°	426.0	7.2
80°-90°	102.7	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°	1572.6	26.5
0°-40°	2587.8	43.6
0°-60°	4643.9	78.3
0°-90°	5934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5934.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2011	2011	2011	2011	2011	
5°	1994	2022	1993	1995	2023	189
15°	1926	1953	1928	1939	1962	544
25°	1793	1818	1797	1809	1832	826
35°	1600	1624	1610	1630	1652	1001
45°	1362	1381	1379	1400	1418	1050
55°	1077	1095	1097	1119	1131	961
65°	745	767	773	780	781	736
75°	385	409	402	401	404	408
85°	72	79	84	94	88	92
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2010.8	2010.8	2010.8	2010.8	2010.8
2.5°	1998.1	2027.2	1998.1	2002.6	2019.0
5°	1993.6	2021.7	1992.6	1995.4	2022.6
7.5°	1981.7	2010.8	1983.6	1987.2	2013.5
10°	1969.9	1996.3	1969.0	1973.6	1999.0
12.5°	1949.9	1977.2	1951.8	1957.2	1982.6
15°	1926.3	1952.7	1928.1	1939.0	1961.7
17.5°	1899.1	1924.5	1900.9	1913.6	1935.4
20°	1868.2	1892.7	1871.8	1880.9	1905.4
22.5°	1831.8	1857.3	1837.3	1845.4	1871.8
25°	1792.7	1818.2	1797.3	1809.1	1831.8
27.5°	1750.0	1774.6	1756.4	1770.9	1790.9
30°	1702.8	1726.4	1710.1	1727.3	1747.3
32.5°	1651.9	1677.3	1661.0	1681.0	1701.0
35°	1600.1	1623.7	1610.1	1630.1	1651.9
37.5°	1543.8	1566.5	1556.5	1577.4	1597.4
40°	1484.7	1510.2	1500.2	1522.0	1542.0
42.5°	1423.8	1448.4	1440.2	1462.9	1480.2
45°	1362.0	1381.1	1379.3	1400.2	1417.5
47.5°	1293.9	1317.5	1313.9	1334.8	1350.2
50°	1225.8	1244.8	1244.8	1264.8	1280.3
52.5°	1152.2	1171.2	1171.2	1194.9	1207.6
55°	1076.7	1094.9	1096.7	1119.4	1131.3
57.5°	996.8	1015.9	1019.5	1042.2	1053.1
60°	915.9	934.1	939.5	962.2	968.6
62.5°	831.4	853.2	855.9	874.1	877.7
65°	745.1	766.9	773.3	780.5	781.4
67.5°	656.9	679.7	686.0	686.0	686.0
70°	567.0	587.9	593.3	589.7	589.7
72.5°	476.1	498.8	496.1	492.5	494.3
75°	385.3	408.9	401.6	400.7	404.3
77.5°	298.0	320.7	308.9	316.2	317.1
80°	213.5	230.8	224.4	235.3	236.2
82.5°	137.2	148.1	149.9	159.0	156.3
85°	71.8	79.1	83.6	93.6	88.1
87.5°	22.7	30.0	27.3	31.8	24.5
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	18.68	20.34	19.05	20.65	20.97	18.90	20.55	19.26	20.87	21.18
	3H	20.50	22.00	20.88	22.33	22.69	20.70	22.20	21.08	22.52	22.88
	4H	21.15	22.56	21.55	22.91	23.28	21.34	22.75	21.73	23.10	23.47
	6H	21.58	22.89	21.99	23.25	23.64	21.79	23.10	22.20	23.46	23.85
	8H	21.69	22.94	22.11	23.33	23.73	21.92	23.17	22.35	23.56	23.96
	12H	21.74	22.94	22.17	23.32	23.75	22.00	23.20	22.43	23.58	24.01
4H	2H	19.36	20.77	19.76	21.12	21.50	19.53	20.94	19.93	21.29	21.67
	3H	21.40	22.59	21.81	22.98	23.38	21.54	22.73	21.95	23.13	23.53
	4H	22.18	23.26	22.61	23.67	24.10	22.30	23.38	22.73	23.79	24.22
	6H	22.73	23.67	23.19	24.11	24.56	22.88	23.81	23.33	24.25	24.71
	8H	22.88	23.76	23.34	24.20	24.66	23.05	23.93	23.51	24.37	24.84
	12H	22.96	23.75	23.44	24.23	24.69	23.17	23.95	23.65	24.43	24.90
8H	4H	22.49	23.37	22.95	23.81	24.27	22.60	23.48	23.06	23.92	24.38
	6H	23.15	23.88	23.64	24.37	24.84	23.28	24.01	23.77	24.50	24.97
	8H	23.35	24.01	23.86	24.51	25.00	23.52	24.17	24.03	24.68	25.16
	12H	23.49	24.07	24.00	24.56	25.12	23.69	24.27	24.20	24.76	25.32
12H	4H	22.52	23.31	23.00	23.78	24.25	22.63	23.41	23.11	23.89	24.36
	6H	23.19	23.85	23.70	24.36	24.84	23.32	23.98	23.83	24.48	24.97
	8H	23.45	24.03	23.96	24.52	25.08	23.61	24.19	24.12	24.68	25.24