

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: P1584444

Luminaire Tested: 14CZSP-65-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584444
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-65-L935-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 6200 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

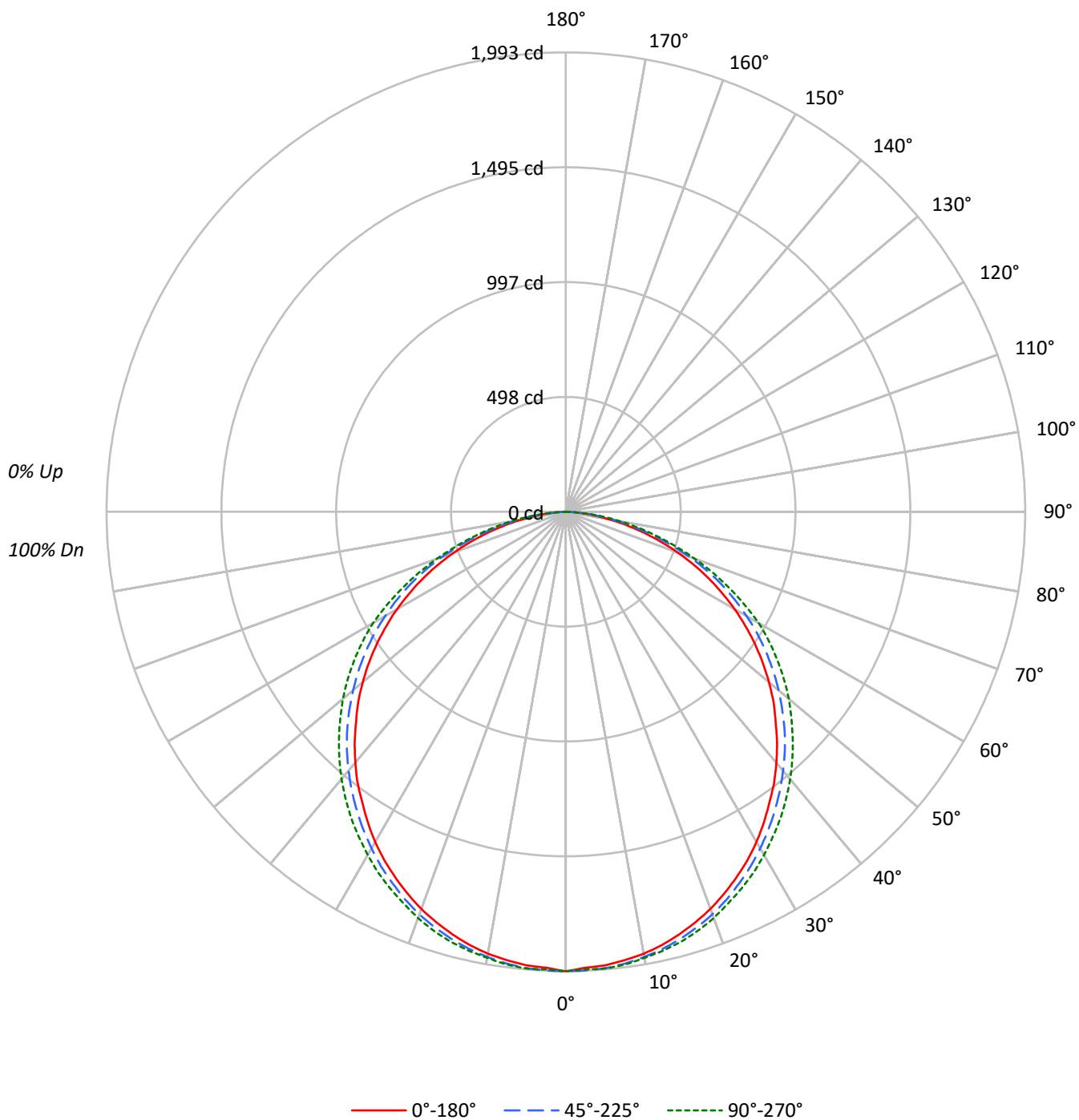
Lumens per Lamp: N/A
Luminaire Lumens: 5763.0 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	6717	6717	6717
5°	6680	6723	6728
10°	6661	6710	6725
15°	6622	6690	6738
20°	6576	6665	6725
25°	6509	6613	6705
30°	6436	6562	6690
35°	6333	6504	6679
40°	6250	6452	6660
45°	6132	6395	6633
50°	6030	6319	6621
55°	5885	6229	6578
60°	5705	6105	6511
65°	5451	5938	6243
70°	5081	5608	5858
75°	4538	5058	5346
80°	3720	4263	4675
85°	2494	3116	3476

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6633 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.8	3.3
10°-20°	541.2	9.4
20°-30°	819.5	14.2
30°-40°	989.7	17.2
40°-50°	1034.3	17.9
50°-60°	947.8	16.4
60°-70°	731.6	12.7
70°-80°	411.5	7.1
80°-90°	98.5	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°	1549.6	26.9
0°-40°	2539.3	44.1
0°-60°	4521.4	78.5
0°-90°	5763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5763.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1993	1993	1993	1993	1993	
5°	1975	1989	1988	1989	1989	188
15°	1898	1914	1918	1926	1932	536
25°	1751	1766	1779	1788	1803	807
35°	1540	1559	1581	1602	1624	965
45°	1287	1312	1342	1369	1392	994
55°	1002	1028	1060	1093	1120	895
65°	684	713	745	774	783	676
75°	349	381	388	405	411	370
85°	64	74	81	88	90	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1993.4	1993.4	1993.4	1993.4	1993.4
2.5°	1979.9	1995.1	1991.7	1996.8	1987.5
5°	1974.8	1989.2	1987.5	1989.2	1989.2
7.5°	1962.0	1977.3	1976.5	1979.0	1980.7
10°	1946.8	1961.2	1961.2	1963.7	1965.4
12.5°	1925.6	1940.8	1942.5	1946.8	1950.2
15°	1898.4	1913.7	1917.9	1925.6	1931.5
17.5°	1867.9	1884.0	1890.8	1898.4	1906.1
20°	1834.0	1848.4	1858.6	1864.5	1875.5
22.5°	1794.1	1810.2	1821.2	1827.2	1839.0
25°	1750.8	1766.1	1778.8	1788.1	1803.4
27.5°	1705.0	1720.3	1735.6	1746.6	1764.4
30°	1654.1	1670.2	1686.4	1703.3	1719.4
32.5°	1599.0	1617.6	1635.5	1654.1	1671.9
35°	1539.6	1559.1	1581.2	1602.4	1623.6
37.5°	1484.5	1502.3	1525.2	1548.1	1569.3
40°	1420.8	1440.4	1466.7	1492.1	1514.2
42.5°	1356.4	1377.6	1406.4	1431.0	1454.8
45°	1286.8	1312.3	1342.0	1369.1	1392.0
47.5°	1222.4	1244.4	1274.1	1303.8	1327.5
50°	1150.2	1174.8	1205.4	1236.8	1263.1
52.5°	1077.3	1102.7	1134.1	1165.5	1192.7
55°	1001.8	1028.1	1060.3	1093.4	1119.7
57.5°	924.6	952.6	985.7	1018.8	1045.1
60°	846.6	874.6	905.9	942.4	966.2
62.5°	765.1	796.5	826.2	860.1	874.6
65°	683.7	713.4	744.8	774.5	783.0
67.5°	600.6	631.1	659.1	678.6	689.6
70°	515.7	548.8	569.2	587.8	594.6
72.5°	431.8	464.9	476.7	494.5	501.3
75°	348.6	380.9	388.5	404.6	410.6
77.5°	268.1	297.7	300.3	318.9	324.0
80°	191.7	215.5	219.7	237.5	240.9
82.5°	123.0	140.0	145.9	161.2	166.3
85°	64.5	73.8	80.6	88.2	89.9
87.5°	21.2	26.3	22.1	22.9	21.2
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	18.33	19.98	18.69	20.29	20.61	18.87	20.52	19.23	20.83	21.15
	3H	20.11	21.60	20.48	21.92	22.28	20.73	22.22	21.10	22.55	22.91
	4H	20.73	22.14	21.13	22.49	22.86	21.40	22.80	21.79	23.15	23.52
	6H	21.14	22.45	21.55	22.81	23.20	21.87	23.18	22.28	23.54	23.93
	8H	21.24	22.49	21.67	22.88	23.28	22.02	23.26	22.44	23.65	24.05
	12H	21.29	22.49	21.72	22.87	23.30	22.10	23.30	22.53	23.68	24.11
4H	2H	19.05	20.46	19.45	20.81	21.18	19.48	20.88	19.87	21.23	21.61
	3H	21.05	22.23	21.46	22.63	23.03	21.55	22.73	21.96	23.13	23.53
	4H	21.81	22.87	22.24	23.29	23.72	22.34	23.41	22.78	23.83	24.26
	6H	22.33	23.27	22.79	23.71	24.16	22.95	23.88	23.40	24.32	24.78
	8H	22.47	23.35	22.93	23.79	24.25	23.14	24.01	23.60	24.45	24.92
	12H	22.55	23.34	23.03	23.81	24.28	23.26	24.04	23.74	24.52	24.99
8H	4H	22.14	23.02	22.60	23.46	23.92	22.62	23.49	23.08	23.94	24.40
	6H	22.78	23.51	23.28	24.00	24.47	23.33	24.06	23.83	24.55	25.02
	8H	22.98	23.63	23.49	24.14	24.63	23.59	24.24	24.10	24.75	25.23
	12H	23.11	23.69	23.62	24.18	24.74	23.77	24.35	24.28	24.84	25.40
12H	4H	22.18	22.97	22.66	23.44	23.91	22.64	23.43	23.12	23.90	24.37
	6H	22.84	23.49	23.35	24.00	24.48	23.37	24.02	23.88	24.53	25.01
	8H	23.09	23.67	23.60	24.16	24.72	23.68	24.25	24.18	24.74	25.30