

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: P1584442

Luminaire Tested: 14CZSP-65-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584442
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-L930-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 6200 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

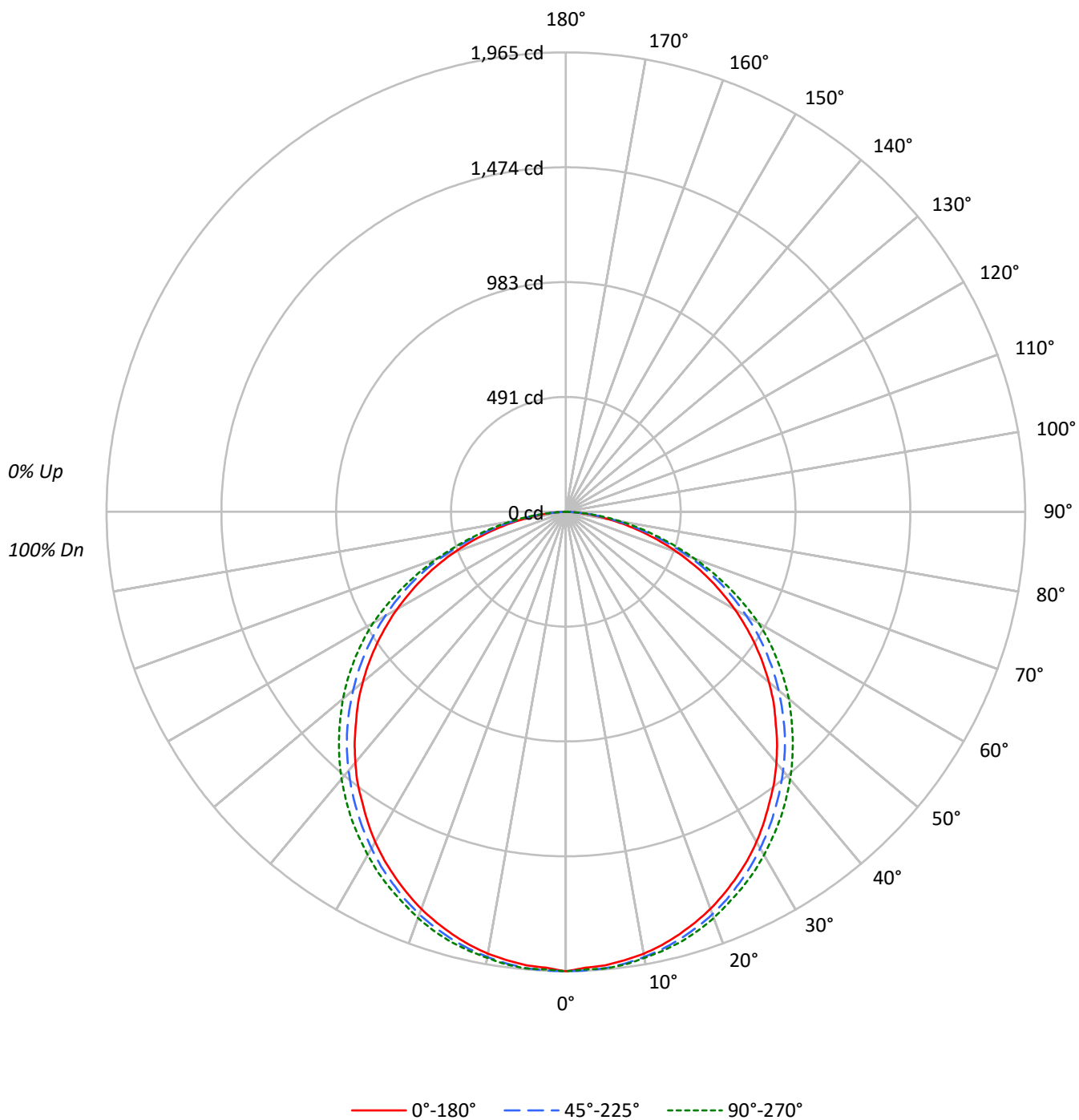
Lumens per Lamp: N/A
Luminaire Lumens: 5682.0 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	6623	6623	6623
5°	6586	6628	6634
10°	6567	6616	6630
15°	6529	6597	6643
20°	6484	6571	6631
25°	6418	6520	6611
30°	6346	6469	6596
35°	6244	6413	6585
40°	6162	6360	6567
45°	6046	6305	6540
50°	5945	6230	6528
55°	5802	6141	6486
60°	5625	6019	6420
65°	5375	5855	6154
70°	5010	5529	5776
75°	4475	4986	5270
80°	3667	4203	4609
85°	2459	3074	3429

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6540 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	3.3
10°-20°	533.6	9.4
20°-30°	808.0	14.2
30°-40°	975.8	17.2
40°-50°	1019.8	17.9
50°-60°	934.4	16.4
60°-70°	721.3	12.7
70°-80°	405.8	7.1
80°-90°	97.1	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°	1527.8	26.9
0°-40°	2503.6	44.1
0°-60°	4457.8	78.5
0°-90°	5682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1965	1965	1965	1965	1965	
5°	1947	1961	1960	1961	1961	185
15°	1872	1887	1891	1898	1904	528
25°	1726	1741	1754	1763	1778	796
35°	1518	1537	1559	1580	1601	951
45°	1269	1294	1323	1350	1372	980
55°	988	1014	1045	1078	1104	882
65°	674	703	734	764	772	666
75°	344	376	383	399	405	364
85°	64	73	80	87	89	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1965.4	1965.4	1965.4	1965.4	1965.4
2.5°	1952.0	1967.1	1963.7	1968.8	1959.6
5°	1947.0	1961.2	1959.6	1961.2	1961.2
7.5°	1934.5	1949.5	1948.7	1951.2	1952.9
10°	1919.4	1933.6	1933.6	1936.1	1937.8
12.5°	1898.5	1913.6	1915.2	1919.4	1922.8
15°	1871.7	1886.8	1891.0	1898.5	1904.4
17.5°	1841.6	1857.5	1864.2	1871.7	1879.3
20°	1808.2	1822.4	1832.4	1838.3	1849.2
22.5°	1768.9	1784.8	1795.6	1801.5	1813.2
25°	1726.2	1741.3	1753.8	1763.0	1778.1
27.5°	1681.1	1696.1	1711.2	1722.0	1739.6
30°	1630.9	1646.8	1662.7	1679.4	1695.3
32.5°	1576.5	1594.9	1612.5	1630.9	1648.4
35°	1518.0	1537.2	1558.9	1579.9	1600.8
37.5°	1463.6	1481.2	1503.7	1526.3	1547.2
40°	1400.9	1420.1	1446.0	1471.1	1492.9
42.5°	1337.3	1358.2	1386.7	1410.9	1434.3
45°	1268.7	1293.8	1323.1	1349.9	1372.4
47.5°	1205.2	1226.9	1256.2	1285.5	1308.9
50°	1134.1	1158.3	1188.4	1219.4	1245.3
52.5°	1062.2	1087.2	1118.2	1149.1	1175.9
55°	987.7	1013.6	1045.4	1078.0	1104.0
57.5°	911.6	939.2	971.8	1004.4	1030.4
60°	834.7	862.3	893.2	929.2	952.6
62.5°	754.4	785.3	814.6	848.1	862.3
65°	674.1	703.4	734.3	763.6	771.9
67.5°	592.1	622.2	649.8	669.1	679.9
70°	508.5	541.1	561.2	579.6	586.3
72.5°	425.7	458.3	470.0	487.6	494.3
75°	343.7	375.5	383.0	398.9	404.8
77.5°	264.3	293.6	296.1	314.5	319.5
80°	189.0	212.4	216.6	234.2	237.5
82.5°	121.3	138.0	143.9	158.9	163.9
85°	63.6	72.8	79.5	87.0	88.7
87.5°	20.9	25.9	21.7	22.6	20.9
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	18.28	19.93	18.65	20.24	20.56	18.82	20.47	19.19	20.78	21.10
	3H	20.06	21.55	20.43	21.88	22.24	20.68	22.17	21.05	22.50	22.86
	4H	20.68	22.09	21.08	22.44	22.81	21.35	22.75	21.74	23.10	23.48
	6H	21.09	22.40	21.50	22.76	23.15	21.82	23.13	22.23	23.49	23.88
	8H	21.19	22.44	21.62	22.83	23.23	21.97	23.22	22.39	23.60	24.00
	12H	21.24	22.44	21.67	22.82	23.25	22.05	23.25	22.48	23.63	24.06
4H	2H	19.00	20.41	19.40	20.76	21.13	19.43	20.83	19.82	21.18	21.56
	3H	21.00	22.18	21.41	22.58	22.98	21.50	22.68	21.91	23.08	23.48
	4H	21.76	22.83	22.19	23.24	23.67	22.29	23.36	22.73	23.78	24.21
	6H	22.28	23.22	22.74	23.66	24.11	22.90	23.83	23.35	24.27	24.73
	8H	22.42	23.30	22.88	23.74	24.20	23.09	23.96	23.55	24.40	24.87
	12H	22.50	23.29	22.98	23.76	24.23	23.21	24.00	23.69	24.47	24.94
8H	4H	22.09	22.97	22.55	23.41	23.87	22.57	23.44	23.03	23.89	24.35
	6H	22.73	23.46	23.23	23.95	24.42	23.28	24.01	23.78	24.50	24.97
	8H	22.93	23.59	23.44	24.09	24.58	23.54	24.19	24.05	24.70	25.18
	12H	23.06	23.64	23.57	24.13	24.69	23.72	24.30	24.23	24.79	25.35
12H	4H	22.13	22.92	22.61	23.39	23.86	22.59	23.38	23.07	23.86	24.32
	6H	22.79	23.44	23.30	23.95	24.43	23.32	23.97	23.83	24.48	24.96
	8H	23.04	23.62	23.55	24.11	24.67	23.63	24.20	24.13	24.69	25.25