

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: P1584422

Luminaire Tested: 14CZSP-60VHE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584422
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-60VHE-L930-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 6200 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

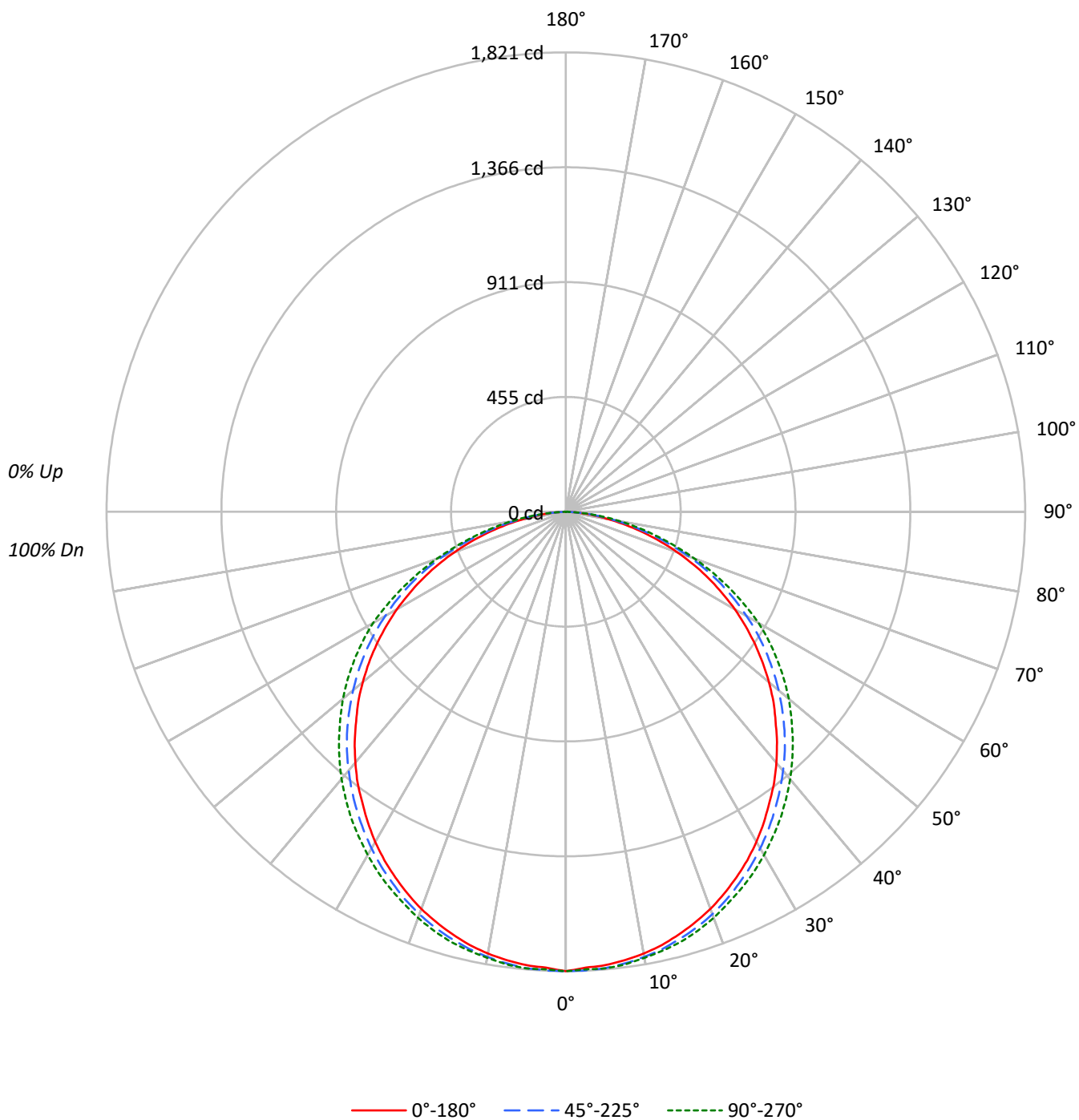
Lumens per Lamp: N/A
Luminaire Lumens: 5265.0 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 43.9
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

TEST NUMBER: P1584422

CATALOG NUMBER: 14CZSP-60VHE-L930-S

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6137	6137	6137
5°	6102	6142	6147
10°	6085	6130	6144
15°	6050	6112	6156
20°	6008	6088	6144
25°	5947	6042	6126
30°	5880	5994	6112
35°	5786	5942	6102
40°	5710	5894	6085
45°	5602	5842	6060
50°	5509	5773	6049
55°	5377	5691	6010
60°	5212	5578	5949
65°	4980	5425	5703
70°	4642	5123	5353
75°	4147	4620	4883
80°	3398	3895	4271
85°	2277	2845	3174

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6060 cd/sqm

TEST NUMBER: P1584422

CATALOG NUMBER: 14CZSP-60VHE-L930-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.5	3.3
10°-20°	494.5	9.4
20°-30°	748.7	14.2
30°-40°	904.2	17.2
40°-50°	944.9	17.9
50°-60°	865.9	16.4
60°-70°	668.4	12.7
70°-80°	376.0	7.1
80°-90°	89.9	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°	1415.7	26.9
0°-40°	2319.9	44.1
0°-60°	4130.7	78.5
0°-90°	5265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1821	1821	1821	1821	1821	
5°	1804	1817	1816	1817	1817	171
15°	1734	1748	1752	1759	1765	489
25°	1600	1614	1625	1634	1648	737
35°	1407	1424	1444	1464	1483	881
45°	1176	1199	1226	1251	1272	909
55°	915	939	969	999	1023	818
65°	625	652	680	708	715	617
75°	318	348	355	370	375	338
85°	59	67	74	81	82	76
90°	0	0	0	0	0	

TEST NUMBER: P1584422

CATALOG NUMBER: 14CZSP-60VHE-L930-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1821.2	1821.2	1821.2	1821.2	1821.2
2.5°	1808.8	1822.7	1819.6	1824.3	1815.7
5°	1804.1	1817.3	1815.7	1817.3	1817.3
7.5°	1792.5	1806.4	1805.7	1808.0	1809.5
10°	1778.5	1791.7	1791.7	1794.0	1795.6
12.5°	1759.2	1773.1	1774.7	1778.5	1781.6
15°	1734.4	1748.3	1752.2	1759.2	1764.6
17.5°	1706.5	1721.2	1727.4	1734.4	1741.3
20°	1675.5	1688.6	1697.9	1703.4	1713.4
22.5°	1639.1	1653.8	1663.9	1669.3	1680.1
25°	1599.5	1613.5	1625.1	1633.6	1647.6
27.5°	1557.7	1571.6	1585.6	1595.7	1611.9
30°	1511.2	1525.9	1540.6	1556.1	1570.9
32.5°	1460.8	1477.9	1494.1	1511.2	1527.5
35°	1406.6	1424.4	1444.5	1463.9	1483.3
37.5°	1356.2	1372.5	1393.4	1414.3	1433.7
40°	1298.1	1315.9	1339.9	1363.2	1383.3
42.5°	1239.2	1258.5	1284.9	1307.4	1329.1
45°	1175.6	1198.9	1226.0	1250.8	1271.7
47.5°	1116.7	1136.9	1164.0	1191.1	1212.8
50°	1050.9	1073.3	1101.2	1129.9	1153.9
52.5°	984.2	1007.5	1036.1	1064.8	1089.6
55°	915.2	939.3	968.7	998.9	1023.0
57.5°	844.7	870.3	900.5	930.7	954.8
60°	773.4	799.0	827.7	861.0	882.7
62.5°	699.0	727.7	754.8	785.8	799.0
65°	624.6	651.7	680.4	707.5	715.3
67.5°	548.7	576.6	602.1	620.0	630.0
70°	471.2	501.4	520.0	537.1	543.3
72.5°	394.5	424.7	435.5	451.8	458.0
75°	318.5	348.0	354.9	369.7	375.1
77.5°	244.9	272.0	274.3	291.4	296.0
80°	175.1	196.8	200.7	217.0	220.1
82.5°	112.4	127.9	133.3	147.2	151.9
85°	58.9	67.4	73.6	80.6	82.1
87.5°	19.4	24.0	20.1	20.9	19.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584422

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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	18.02	19.67	18.38	19.98	20.29	18.56	20.21	18.92	20.52	20.83
	3H	19.79	21.28	20.17	21.61	21.97	20.41	21.91	20.79	22.23	22.59
	4H	20.42	21.83	20.82	22.17	22.55	21.08	22.49	21.48	22.84	23.21
	6H	20.83	22.13	21.24	22.50	22.89	21.56	22.86	21.97	23.23	23.62
	8H	20.93	22.18	21.35	22.57	22.96	21.70	22.95	22.13	23.34	23.74
	12H	20.98	22.17	21.41	22.56	22.98	21.79	22.98	22.22	23.36	23.79
4H	2H	18.74	20.15	19.14	20.49	20.87	19.16	20.57	19.56	20.92	21.29
	3H	20.73	21.92	21.14	22.31	22.71	21.23	22.41	21.64	22.81	23.21
	4H	21.49	22.56	21.92	22.97	23.41	22.03	23.10	22.46	23.51	23.95
	6H	22.02	22.95	22.47	23.39	23.85	22.63	23.57	23.09	24.01	24.46
	8H	22.16	23.03	22.62	23.47	23.94	22.82	23.70	23.28	24.14	24.60
	12H	22.24	23.02	22.72	23.50	23.97	22.94	23.73	23.42	24.21	24.67
8H	4H	21.83	22.70	22.29	23.14	23.61	22.31	23.18	22.77	23.62	24.09
	6H	22.47	23.20	22.96	23.68	24.16	23.02	23.75	23.51	24.23	24.71
	8H	22.67	23.32	23.18	23.83	24.31	23.28	23.93	23.78	24.43	24.92
	12H	22.80	23.37	23.30	23.86	24.42	23.46	24.03	23.96	24.52	25.08
12H	4H	21.87	22.65	22.35	23.13	23.60	22.33	23.12	22.81	23.59	24.06
	6H	22.52	23.18	23.03	23.68	24.17	23.06	23.71	23.56	24.21	24.70
	8H	22.78	23.35	23.28	23.84	24.40	23.36	23.94	23.87	24.43	24.99