

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: P1584423

Luminaire Tested: 14CZSP-60VHE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-776-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-60VHE-L930
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 6200 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

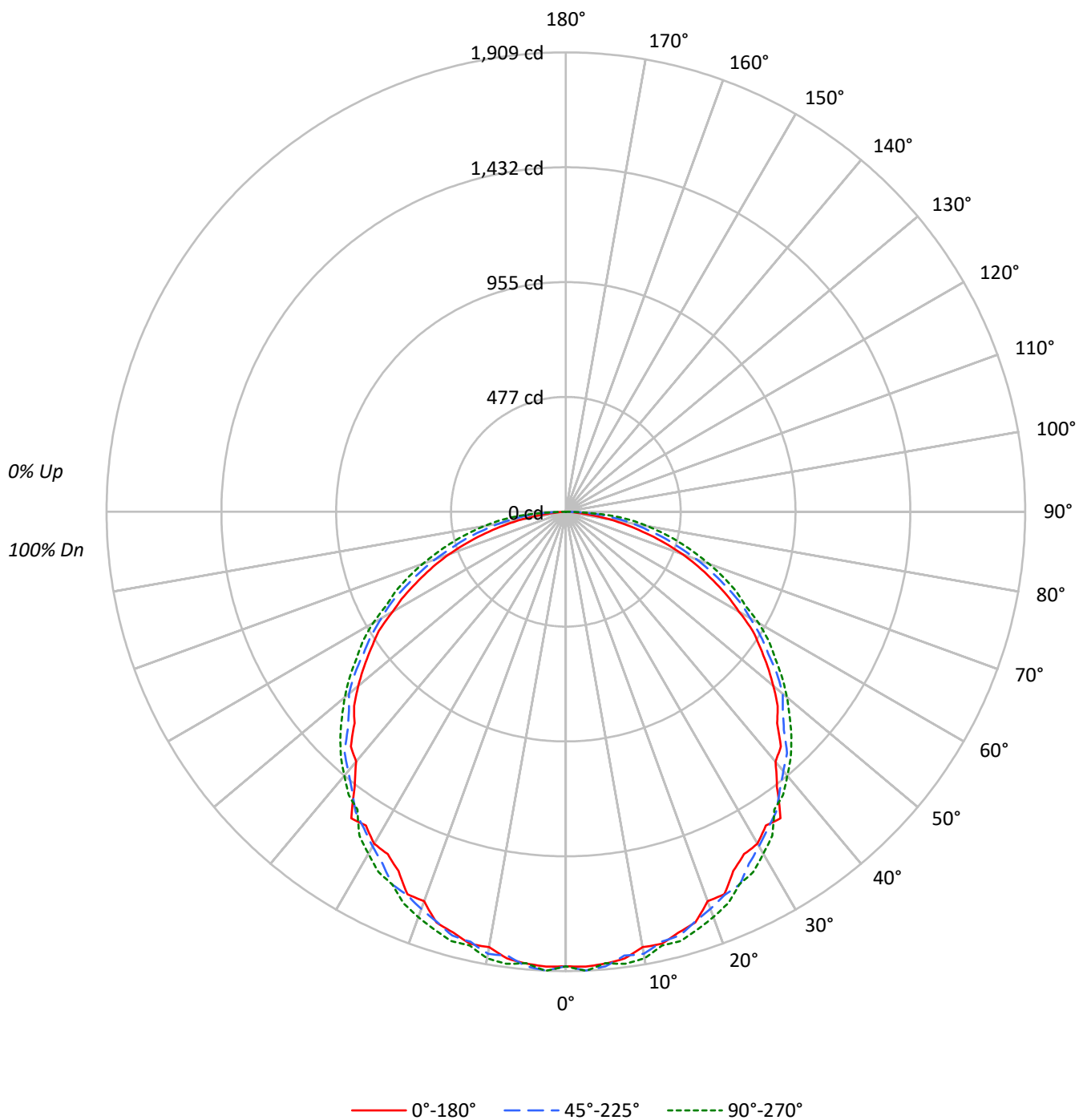
Lumens per Lamp: N/A
Luminaire Lumens: 5662.0 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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
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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78
3	89	78	70	63	87	77	69	63	74	67	61		71	65	60		68
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55
6	69	55	46	40	67	54	46	40	53	45	39		51	44	39		49
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6365	6365	6365
5°	6376	6412	6369
10°	6287	6383	6447
15°	6314	6362	6440
20°	6177	6299	6428
25°	6122	6354	6350
30°	6199	6248	6384
35°	6397	6265	6213
40°	5963	6185	6297
45°	5918	6108	6316
50°	5903	6168	6285
55°	5797	6032	6237
60°	5601	5961	6237
65°	5385	5858	6223
70°	5092	5695	6232
75°	4498	5562	6348
80°	3700	5420	6724
85°	2068	5718	7489

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 7489 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	3.2
10°-20°	513.9	9.1
20°-30°	781.0	13.8
30°-40°	949.7	16.8
40°-50°	996.9	17.6
50°-60°	922.0	16.3
60°-70°	726.4	12.8
70°-80°	446.5	7.9
80°-90°	146.6	2.6
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°	1473.9	26.0
0°-40°	2423.6	42.8
0°-60°	4342.6	76.7
0°-90°	5662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1889	1889	1889	1889	1889	
5°	1885	1852	1896	1879	1883	179
15°	1810	1805	1824	1848	1846	510
25°	1647	1677	1709	1704	1708	765
35°	1555	1500	1523	1546	1510	942
45°	1242	1268	1282	1319	1326	965
55°	987	1018	1027	1053	1062	882
65°	675	702	735	767	780	669
75°	346	383	427	471	488	368
85°	54	93	148	181	194	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1888.9	1888.9	1888.9	1888.9	1888.9
2.5°	1891.9	1894.8	1908.4	1878.2	1909.4
5°	1885.0	1852.0	1895.8	1879.2	1883.1
7.5°	1872.4	1876.3	1860.7	1870.4	1894.8
10°	1837.4	1861.7	1865.6	1869.5	1884.1
12.5°	1839.3	1823.7	1830.5	1858.8	1846.1
15°	1810.1	1805.2	1823.7	1848.1	1846.1
17.5°	1789.7	1779.0	1785.8	1797.5	1819.8
20°	1722.5	1750.7	1756.6	1792.6	1792.6
22.5°	1720.6	1719.6	1723.5	1742.0	1761.5
25°	1646.6	1676.8	1708.9	1704.0	1707.9
27.5°	1603.8	1637.9	1648.6	1681.7	1687.5
30°	1593.1	1598.9	1605.7	1641.8	1640.8
32.5°	1546.4	1556.1	1561.0	1581.4	1597.0
35°	1555.1	1499.7	1523.0	1546.4	1510.4
37.5°	1441.3	1450.0	1459.8	1477.3	1483.1
40°	1355.6	1378.0	1406.2	1426.7	1431.5
42.5°	1322.5	1355.6	1360.5	1379.0	1383.9
45°	1241.8	1268.1	1281.7	1318.7	1325.5
47.5°	1194.1	1198.0	1222.3	1257.3	1262.2
50°	1126.0	1152.2	1176.6	1192.1	1199.0
52.5°	1056.9	1086.1	1105.5	1120.1	1133.8
55°	986.8	1017.9	1026.7	1053.0	1061.7
57.5°	921.6	931.3	959.6	984.9	1000.4
60°	831.1	864.2	884.6	931.3	925.5
62.5°	758.1	780.5	818.4	841.8	838.9
65°	675.4	701.7	734.7	766.9	780.5
67.5°	596.6	631.6	655.9	697.8	707.5
70°	516.8	533.3	578.1	618.9	632.6
72.5°	431.1	457.4	496.3	541.1	557.6
75°	345.5	383.4	427.2	471.0	487.6
77.5°	264.7	297.8	347.4	398.0	414.6
80°	190.7	220.9	279.3	326.0	346.5
82.5°	111.9	152.8	210.2	261.8	277.4
85°	53.5	93.4	147.9	181.0	193.7
87.5°	14.6	41.8	65.2	84.7	87.6
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	18.24	19.91	18.60	20.22	20.53	18.67	20.34	19.03	20.65	20.97
	3H	20.04	21.56	20.42	21.88	22.24	20.75	22.27	21.13	22.59	22.95
	4H	20.68	22.11	21.08	22.46	22.83	21.63	23.06	22.03	23.41	23.78
	6H	21.10	22.42	21.51	22.79	23.18	22.42	23.75	22.83	24.11	24.50
	8H	21.19	22.46	21.62	22.85	23.25	22.76	24.03	23.18	24.42	24.81
	12H	21.23	22.45	21.66	22.83	23.26	23.04	24.26	23.47	24.64	25.07
4H	2H	18.97	20.40	19.36	20.74	21.12	19.30	20.73	19.70	21.08	21.45
	3H	20.99	22.20	21.40	22.60	23.00	21.62	22.82	22.02	23.22	23.62
	4H	21.77	22.86	22.20	23.28	23.71	22.66	23.75	23.09	24.16	24.60
	6H	22.31	23.27	22.76	23.71	24.16	23.61	24.57	24.06	25.01	25.46
	8H	22.45	23.35	22.91	23.79	24.25	24.03	24.92	24.48	25.37	25.83
	12H	22.52	23.33	23.00	23.81	24.27	24.39	25.20	24.87	25.68	26.15
8H	4H	22.20	23.10	22.66	23.54	24.01	22.98	23.88	23.44	24.32	24.78
	6H	22.88	23.63	23.37	24.12	24.59	24.09	24.84	24.58	25.33	25.80
	8H	23.10	23.77	23.60	24.28	24.76	24.63	25.31	25.14	25.81	26.30
	12H	23.23	23.83	23.74	24.32	24.88	25.13	25.73	25.64	26.22	26.78
12H	4H	22.29	23.10	22.76	23.57	24.04	23.01	23.82	23.49	24.29	24.76
	6H	23.01	23.69	23.52	24.19	24.68	24.15	24.83	24.66	25.33	25.82
	8H	23.30	23.90	23.80	24.39	24.95	24.77	25.37	25.27	25.86	26.41