

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: P1586543

Luminaire Tested: 22CZSP-60HE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-668-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-60HE-L930
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 6700 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

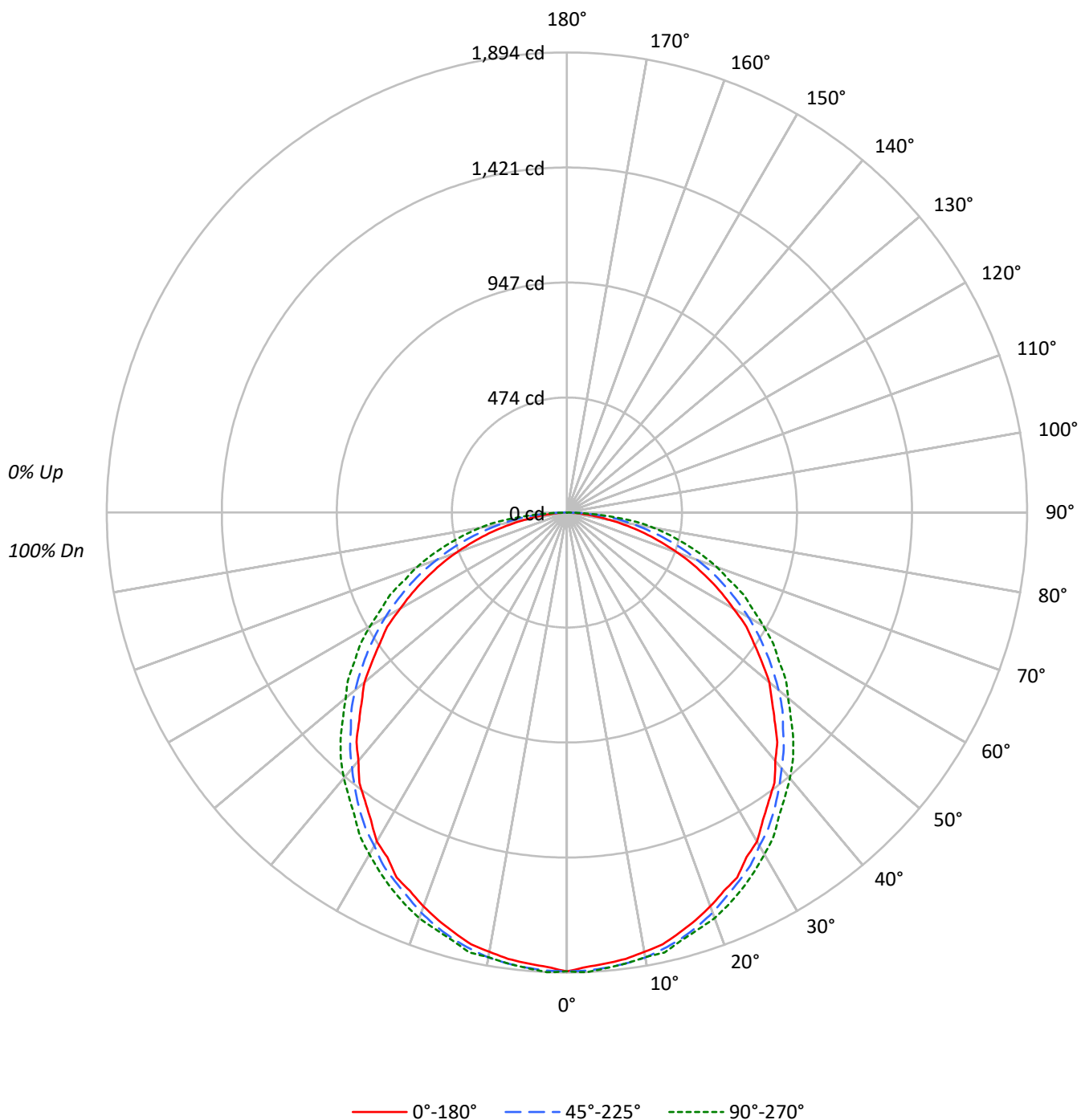
Lumens per Lamp: N/A
Luminaire Lumens: 5565.0 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 41.5
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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45		56	50	44		55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35		46	40	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5916	5916	5916
5°	5858	5912	5918
10°	5840	5915	5910
15°	5805	5888	5910
20°	5752	5842	5921
25°	5728	5787	5904
30°	5656	5730	5877
35°	5537	5693	5823
40°	5455	5622	5838
45°	5352	5570	5834
50°	5299	5539	5788
55°	5130	5464	5817
60°	4957	5405	5852
65°	4742	5322	5953
70°	4457	5220	6015
75°	4015	5127	6136
80°	3284	5035	6539
85°	2141	5016	6115

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6861 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	3.2
10°-20°	511.4	9.2
20°-30°	772.9	13.9
30°-40°	932.2	16.8
40°-50°	974.5	17.5
50°-60°	898.6	16.1
60°-70°	712.0	12.8
70°-80°	445.2	8.0
80°-90°	139.7	2.5
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°	1462.8	26.3
0°-40°	2395.0	43.0
0°-60°	4268.1	76.7
0°-90°	5565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1889	1889	1889	1889	1889	
5°	1864	1872	1881	1888	1883	177
15°	1791	1799	1816	1828	1823	505
25°	1658	1653	1675	1699	1709	760
35°	1448	1466	1489	1515	1523	909
45°	1208	1226	1258	1290	1318	935
55°	940	962	1001	1055	1066	842
65°	640	667	718	774	803	634
75°	332	359	424	483	507	350
85°	60	85	140	163	170	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1889.4	1889.4	1889.4	1889.4	1889.4
2.5°	1872.3	1880.9	1887.7	1886.0	1894.5
5°	1863.8	1872.3	1880.9	1887.7	1882.6
7.5°	1853.6	1862.1	1872.3	1882.6	1872.3
10°	1836.6	1841.7	1860.4	1862.1	1858.7
12.5°	1821.3	1826.4	1840.0	1851.9	1855.3
15°	1790.6	1799.2	1816.2	1828.1	1823.0
17.5°	1760.0	1771.9	1787.2	1799.2	1799.2
20°	1726.0	1734.5	1753.2	1761.7	1777.0
22.5°	1686.8	1697.0	1712.3	1736.2	1744.7
25°	1657.9	1652.8	1674.9	1698.7	1708.9
27.5°	1600.0	1606.8	1637.5	1659.6	1668.1
30°	1564.3	1567.7	1584.7	1615.3	1625.5
32.5°	1501.3	1511.5	1542.1	1564.3	1583.0
35°	1448.5	1465.5	1489.4	1514.9	1523.4
37.5°	1402.6	1406.0	1433.2	1467.2	1474.0
40°	1334.5	1354.9	1375.3	1417.9	1428.1
42.5°	1281.7	1291.9	1320.9	1361.7	1377.0
45°	1208.5	1225.5	1257.9	1290.2	1317.5
47.5°	1143.8	1160.9	1203.4	1244.3	1249.4
50°	1087.7	1094.5	1137.0	1183.0	1188.1
52.5°	1011.1	1028.1	1068.9	1120.0	1137.0
55°	939.6	961.7	1000.9	1055.3	1065.5
57.5°	876.6	886.8	932.8	987.2	1007.7
60°	791.5	820.4	863.0	915.7	934.5
62.5°	718.3	745.5	791.5	840.9	861.3
65°	640.0	667.2	718.3	774.5	803.4
67.5°	565.1	587.2	648.5	706.4	720.0
70°	486.8	512.3	570.2	629.8	657.0
72.5°	405.1	434.0	498.7	554.9	583.8
75°	331.9	359.2	423.8	483.4	507.2
77.5°	255.3	286.0	348.9	408.5	435.7
80°	182.1	212.8	279.2	338.7	362.6
82.5°	117.4	149.8	212.8	265.5	286.0
85°	59.6	85.1	139.6	163.4	170.2
87.5°	18.7	30.6	47.7	54.5	54.5
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	17.70	19.37	18.07	19.68	20.00	18.49	20.16	18.86	20.47	20.79
	3H	19.48	21.00	19.86	21.32	21.68	20.63	22.15	21.01	22.47	22.83
	4H	20.12	21.55	20.52	21.89	22.27	21.56	22.99	21.96	23.33	23.71
	6H	20.55	21.87	20.96	22.24	22.63	22.38	23.71	22.79	24.07	24.46
	8H	20.66	21.93	21.08	22.32	22.71	22.73	24.00	23.15	24.39	24.78
	12H	20.71	21.93	21.14	22.31	22.74	22.97	24.19	23.40	24.57	25.00
4H	2H	18.47	19.90	18.87	20.25	20.62	19.09	20.51	19.48	20.86	21.24
	3H	20.48	21.69	20.89	22.08	22.48	21.47	22.68	21.88	23.07	23.47
	4H	21.24	22.34	21.68	22.75	23.18	22.56	23.65	22.99	24.06	24.50
	6H	21.79	22.75	22.24	23.19	23.64	23.56	24.52	24.01	24.96	25.41
	8H	21.95	22.84	22.41	23.29	23.75	23.99	24.88	24.44	25.32	25.79
	12H	22.04	22.84	22.51	23.32	23.79	24.30	25.11	24.78	25.58	26.05
8H	4H	21.72	22.62	22.18	23.06	23.53	22.87	23.77	23.33	24.21	24.67
	6H	22.41	23.16	22.91	23.65	24.12	24.03	24.78	24.52	25.27	25.74
	8H	22.64	23.32	23.15	23.82	24.31	24.58	25.25	25.08	25.75	26.24
	12H	22.79	23.39	23.29	23.88	24.43	25.01	25.60	25.51	26.09	26.65
12H	4H	21.82	22.63	22.30	23.10	23.57	22.90	23.71	23.37	24.18	24.65
	6H	22.56	23.24	23.07	23.74	24.23	24.09	24.76	24.60	25.27	25.75
	8H	22.87	23.46	23.37	23.95	24.51	24.71	25.30	25.21	25.79	26.35