

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: P1586544

Luminaire Tested: 22CZSP-60HE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-60HE-L935-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 6700 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

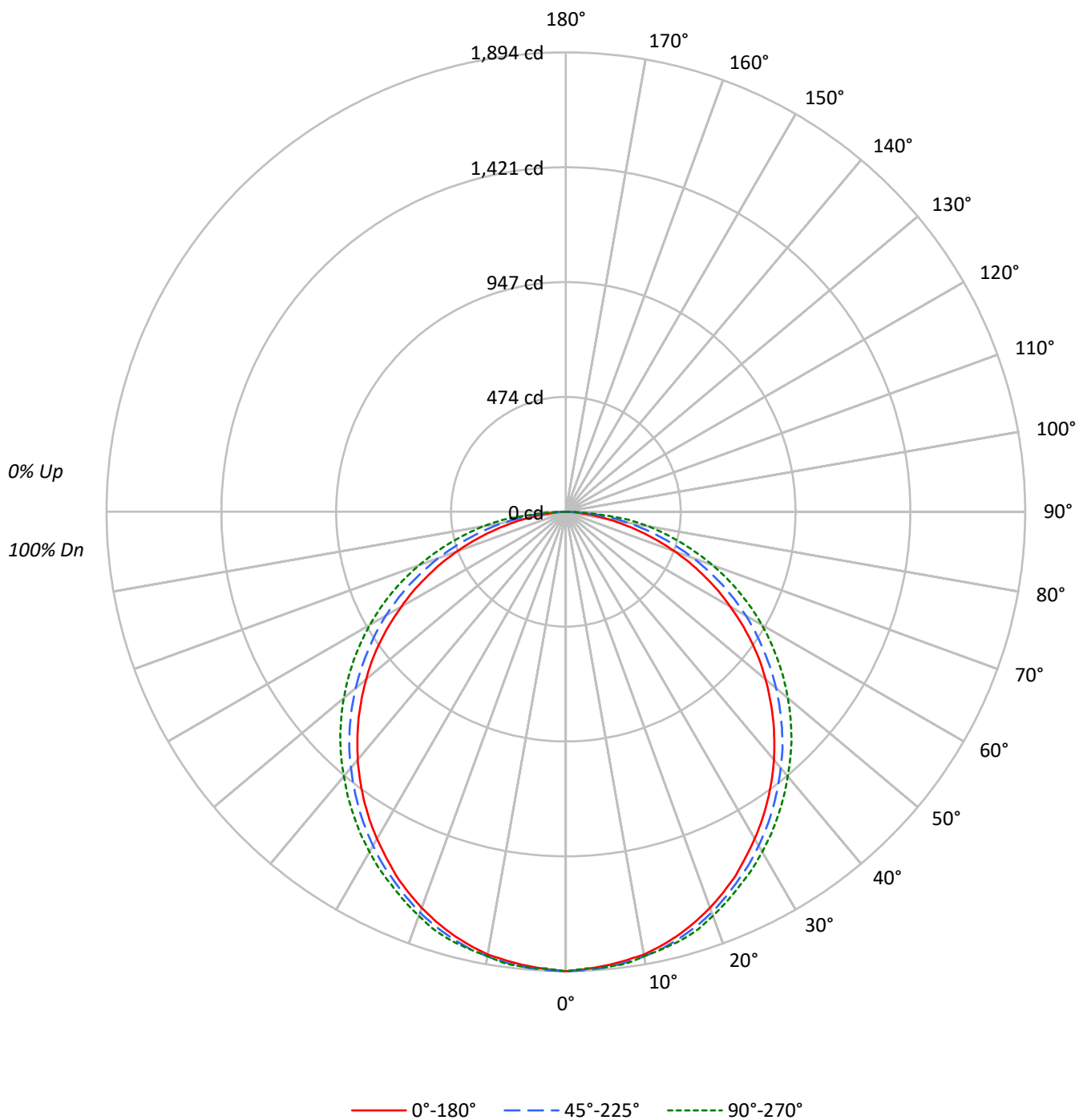
Lumens per Lamp: N/A
Luminaire Lumens: 5531.0 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5932	5932	5932
5°	5905	5928	5924
10°	5893	5920	5916
15°	5850	5898	5933
20°	5792	5860	5908
25°	5719	5799	5870
30°	5630	5749	5854
35°	5549	5693	5836
40°	5457	5636	5819
45°	5353	5579	5826
50°	5238	5510	5823
55°	5102	5433	5831
60°	4910	5374	5845
65°	4685	5270	5863
70°	4367	5122	5889
75°	3891	4919	5946
80°	3217	4683	6237
85°	2095	4229	5450

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6434 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	3.2
10°-20°	513.0	9.3
20°-30°	773.7	14.0
30°-40°	932.0	16.8
40°-50°	973.3	17.6
50°-60°	893.9	16.2
60°-70°	704.0	12.7
70°-80°	431.9	7.8
80°-90°	130.0	2.3
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°	1466.0	26.5
0°-40°	2397.9	43.4
0°-60°	4265.1	77.1
0°-90°	5531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1894	1894	1894	1894	1894	
5°	1879	1881	1886	1892	1885	179
15°	1805	1808	1819	1830	1830	509
25°	1655	1659	1678	1699	1699	762
35°	1452	1459	1489	1520	1527	908
45°	1209	1222	1260	1304	1316	932
55°	934	952	995	1051	1068	834
65°	632	654	711	771	791	626
75°	322	347	407	471	492	341
85°	58	80	118	149	152	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1894.5	1894.5	1894.5	1894.5	1894.5
2.5°	1887.2	1890.9	1892.1	1893.3	1884.8
5°	1878.7	1881.2	1886.0	1892.1	1884.8
7.5°	1866.6	1869.0	1875.1	1883.6	1880.0
10°	1853.3	1854.5	1861.7	1867.8	1860.5
12.5°	1831.4	1835.0	1843.5	1848.4	1846.0
15°	1804.7	1808.3	1819.3	1830.2	1830.2
17.5°	1773.1	1778.0	1791.4	1805.9	1807.1
20°	1738.0	1741.6	1758.6	1773.1	1773.1
22.5°	1697.9	1702.8	1719.7	1735.5	1738.0
25°	1655.4	1659.1	1678.5	1699.1	1699.1
27.5°	1605.7	1612.9	1637.2	1657.9	1662.7
30°	1557.1	1563.2	1589.9	1615.4	1619.0
32.5°	1506.1	1513.4	1541.3	1569.3	1575.3
35°	1451.5	1458.8	1489.2	1519.5	1526.8
37.5°	1394.5	1403.0	1434.5	1469.7	1477.0
40°	1335.0	1344.7	1378.7	1416.3	1423.6
42.5°	1271.9	1285.3	1321.7	1360.5	1371.4
45°	1208.8	1222.2	1259.8	1303.5	1315.6
47.5°	1142.0	1157.8	1196.7	1242.8	1256.1
50°	1075.3	1091.1	1131.1	1180.9	1195.4
52.5°	1007.3	1023.1	1064.4	1116.6	1132.3
55°	934.5	951.5	995.2	1051.0	1068.0
57.5°	859.3	881.1	927.2	984.3	1001.3
60°	784.0	805.9	858.1	913.9	933.3
62.5°	710.0	730.6	784.0	843.5	864.1
65°	632.3	654.2	711.2	770.7	791.3
67.5°	555.9	577.7	634.7	696.6	718.5
70°	477.0	501.2	559.5	621.4	643.2
72.5°	398.1	423.6	483.0	546.1	566.8
75°	321.6	347.1	406.6	470.9	491.5
77.5°	246.4	274.3	332.5	398.1	417.5
80°	178.4	205.1	259.7	324.0	345.9
82.5°	114.1	137.1	191.8	252.4	268.2
85°	58.3	80.1	117.7	149.3	151.7
87.5°	18.2	25.5	38.8	58.3	59.5
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	17.66	19.33	18.03	19.64	19.95	18.49	20.16	18.86	20.47	20.78
	3H	19.42	20.93	19.80	21.25	21.61	20.61	22.12	20.99	22.44	22.80
	4H	20.04	21.46	20.44	21.81	22.18	21.50	22.92	21.90	23.27	23.64
	6H	20.45	21.77	20.86	22.13	22.52	22.28	23.60	22.69	23.96	24.36
	8H	20.56	21.82	20.98	22.21	22.61	22.60	23.86	23.02	24.25	24.65
	12H	20.61	21.82	21.04	22.20	22.63	22.81	24.02	23.24	24.40	24.83
4H	2H	18.44	19.86	18.83	20.21	20.58	19.08	20.50	19.48	20.85	21.23
	3H	20.41	21.61	20.82	22.01	22.41	21.44	22.64	21.85	23.03	23.43
	4H	21.15	22.24	21.58	22.65	23.08	22.49	23.58	22.92	23.99	24.42
	6H	21.68	22.63	22.13	23.07	23.52	23.44	24.39	23.89	24.83	25.29
	8H	21.82	22.72	22.28	23.16	23.62	23.84	24.73	24.30	25.17	25.64
	12H	21.91	22.71	22.39	23.19	23.65	24.12	24.92	24.59	25.39	25.86
8H	4H	21.61	22.50	22.07	22.94	23.41	22.78	23.67	23.24	24.11	24.58
	6H	22.27	23.01	22.76	23.50	23.97	23.89	24.63	24.38	25.12	25.59
	8H	22.48	23.15	22.99	23.65	24.14	24.40	25.07	24.91	25.57	26.06
	12H	22.62	23.21	23.12	23.70	24.26	24.79	25.38	25.29	25.87	26.43
12H	4H	21.70	22.50	22.18	22.98	23.44	22.80	23.61	23.28	24.08	24.55
	6H	22.40	23.07	22.91	23.58	24.06	23.94	24.61	24.44	25.11	25.60
	8H	22.68	23.27	23.19	23.76	24.32	24.52	25.11	25.02	25.60	26.16