

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: P1586782

Luminaire Tested: 22CZSP-A-60HE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586782
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-A-60HE-L930-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 6700 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

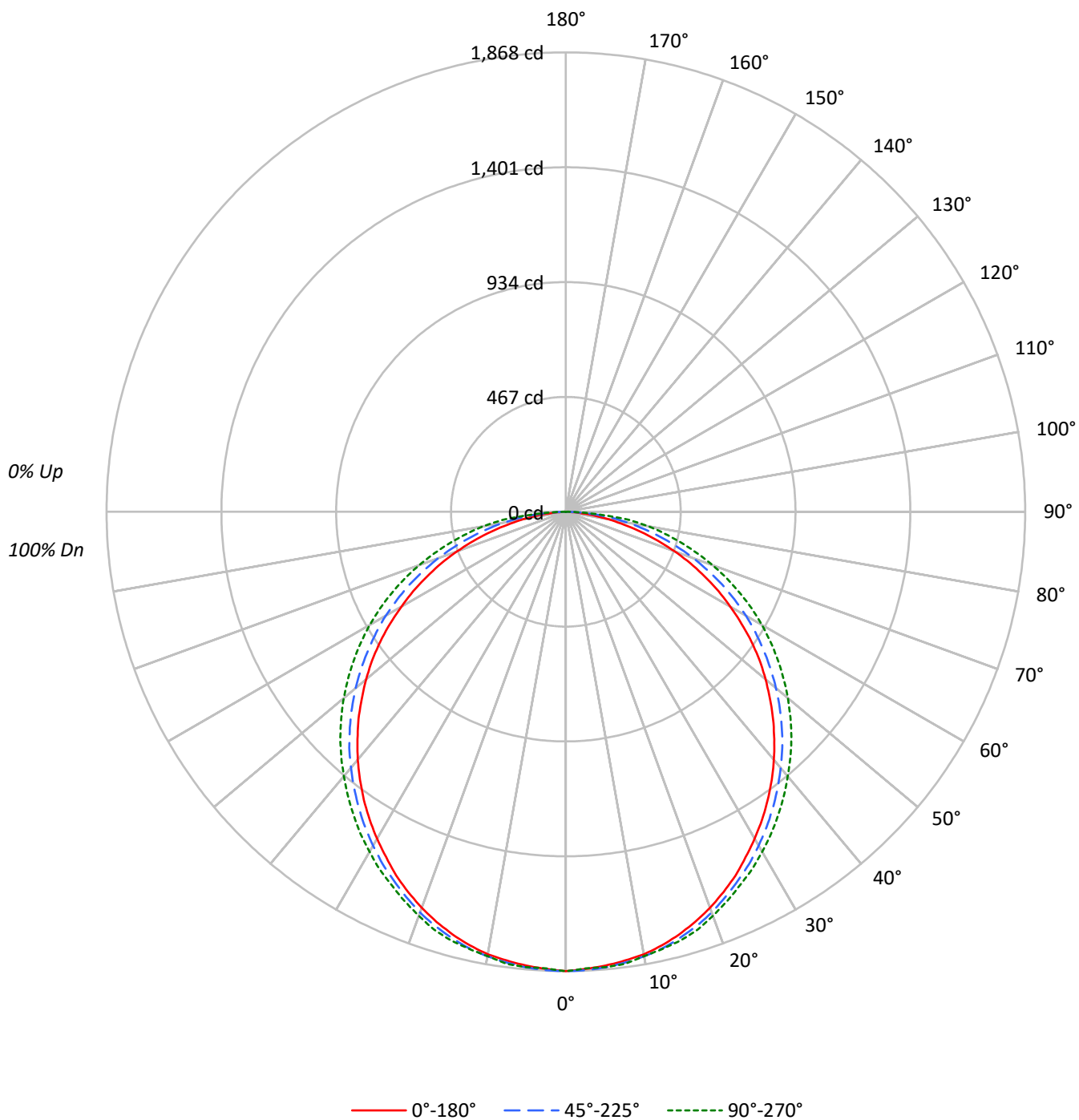
Lumens per Lamp: N/A
Luminaire Lumens: 5454.0 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5850	5850	5850
5°	5823	5846	5842
10°	5811	5837	5833
15°	5769	5815	5850
20°	5711	5779	5827
25°	5640	5718	5789
30°	5552	5669	5773
35°	5471	5613	5755
40°	5381	5557	5738
45°	5279	5501	5745
50°	5165	5434	5742
55°	5031	5357	5749
60°	4842	5299	5764
65°	4620	5196	5782
70°	4306	5051	5807
75°	3836	4850	5864
80°	3172	4618	6151
85°	2062	4171	5375

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6345 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	3.2
10°-20°	505.9	9.3
20°-30°	763.0	14.0
30°-40°	919.0	16.8
40°-50°	959.7	17.6
50°-60°	881.4	16.2
60°-70°	694.2	12.7
70°-80°	425.9	7.8
80°-90°	128.2	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°	1445.6	26.5
0°-40°	2364.6	43.4
0°-60°	4205.7	77.1
0°-90°	5454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1868	1868	1868	1868	1868	
5°	1853	1855	1860	1866	1859	176
15°	1780	1783	1794	1805	1805	502
25°	1632	1636	1655	1676	1676	751
35°	1431	1438	1468	1498	1506	895
45°	1192	1205	1242	1285	1297	919
55°	922	938	981	1036	1053	823
65°	624	645	701	760	780	617
75°	317	342	401	464	485	336
85°	57	79	116	147	150	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1868.1	1868.1	1868.1	1868.1	1868.1
2.5°	1861.0	1864.6	1865.7	1866.9	1858.6
5°	1852.6	1855.0	1859.8	1865.7	1858.6
7.5°	1840.6	1843.0	1849.0	1857.4	1853.8
10°	1827.5	1828.6	1835.8	1841.8	1834.6
12.5°	1805.9	1809.5	1817.9	1822.7	1820.3
15°	1779.6	1783.2	1793.9	1804.7	1804.7
17.5°	1748.5	1753.3	1766.4	1780.8	1782.0
20°	1713.8	1717.3	1734.1	1748.5	1748.5
22.5°	1674.3	1679.1	1695.8	1711.4	1713.8
25°	1632.4	1636.0	1655.1	1675.5	1675.5
27.5°	1583.3	1590.5	1614.4	1634.8	1639.6
30°	1535.4	1541.4	1567.8	1592.9	1596.5
32.5°	1485.2	1492.4	1519.9	1547.4	1553.4
35°	1431.3	1438.5	1468.4	1498.3	1505.5
37.5°	1375.1	1383.5	1414.6	1449.3	1456.5
40°	1316.4	1326.0	1359.5	1396.6	1403.8
42.5°	1254.2	1267.4	1303.3	1341.6	1352.3
45°	1192.0	1205.1	1242.2	1285.3	1297.3
47.5°	1126.2	1141.7	1180.0	1225.5	1238.6
50°	1060.3	1075.9	1115.4	1164.4	1178.8
52.5°	993.3	1008.9	1049.6	1101.0	1116.6
55°	921.5	938.3	981.3	1036.4	1053.1
57.5°	847.3	868.8	914.3	970.6	987.3
60°	773.1	794.6	846.1	901.2	920.3
62.5°	700.1	720.4	773.1	831.7	852.1
65°	623.5	645.1	701.3	759.9	780.3
67.5°	548.1	569.7	625.9	686.9	708.5
70°	470.3	494.3	551.7	612.7	634.3
72.5°	392.5	417.7	476.3	538.5	558.9
75°	317.1	342.3	400.9	464.3	484.7
77.5°	242.9	270.5	327.9	392.5	411.7
80°	175.9	202.3	256.1	319.5	341.1
82.5°	112.5	135.2	189.1	248.9	264.5
85°	57.4	79.0	116.1	147.2	149.6
87.5°	18.0	25.1	38.3	57.4	58.6
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	17.61	19.28	17.98	19.59	19.91	18.45	20.11	18.81	20.42	20.74
	3H	19.37	20.88	19.75	21.20	21.56	20.56	22.07	20.94	22.40	22.75
	4H	19.99	21.41	20.39	21.76	22.13	21.45	22.87	21.85	23.22	23.59
	6H	20.40	21.72	20.81	22.08	22.47	22.23	23.55	22.64	23.92	24.31
	8H	20.51	21.77	20.93	22.16	22.56	22.55	23.81	22.98	24.20	24.60
	12H	20.56	21.77	20.99	22.15	22.58	22.76	23.97	23.19	24.36	24.78
4H	2H	18.39	19.81	18.78	20.16	20.53	19.03	20.46	19.43	20.80	21.18
	3H	20.36	21.56	20.77	21.96	22.36	21.39	22.59	21.80	22.98	23.38
	4H	21.10	22.19	21.53	22.60	23.03	22.44	23.53	22.87	23.94	24.37
	6H	21.63	22.58	22.08	23.02	23.48	23.39	24.34	23.85	24.78	25.24
	8H	21.78	22.67	22.23	23.11	23.57	23.79	24.68	24.25	25.12	25.59
	12H	21.86	22.66	22.34	23.14	23.61	24.07	24.87	24.55	25.34	25.81
8H	4H	21.56	22.45	22.02	22.89	23.36	22.73	23.62	23.19	24.06	24.53
	6H	22.22	22.97	22.71	23.45	23.93	23.84	24.59	24.33	25.07	25.55
	8H	22.43	23.10	22.94	23.61	24.09	24.35	25.02	24.86	25.53	26.01
	12H	22.57	23.16	23.08	23.65	24.21	24.74	25.33	25.24	25.82	26.38
12H	4H	21.65	22.45	22.13	22.93	23.40	22.75	23.56	23.23	24.03	24.50
	6H	22.35	23.02	22.86	23.53	24.01	23.89	24.56	24.40	25.06	25.55
	8H	22.63	23.22	23.14	23.71	24.27	24.47	25.06	24.97	25.55	26.11