

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: P1586550

Luminaire Tested: 22CZSP-60HE-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586550
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-L950-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 6700 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

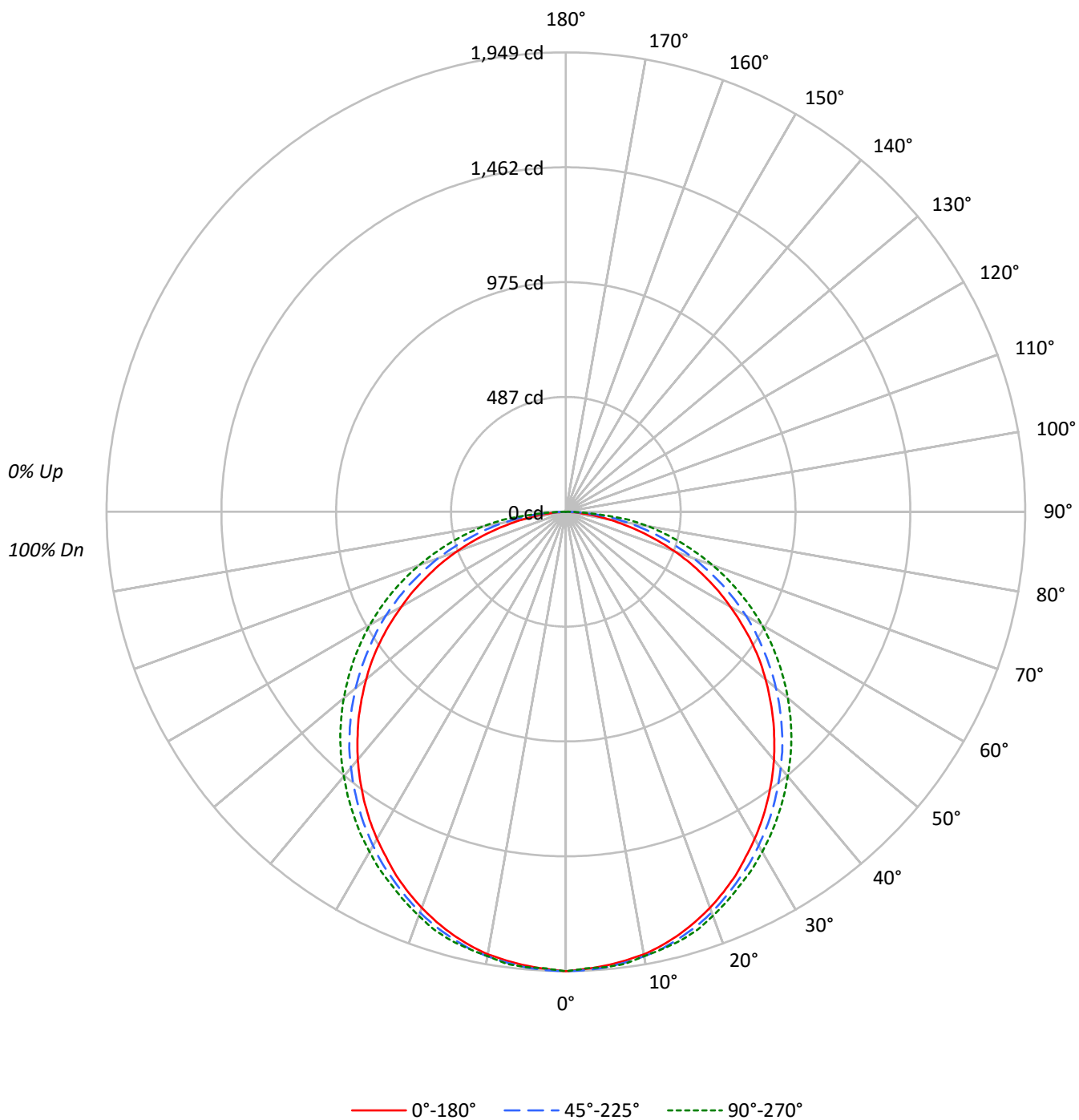
Lumens per Lamp: N/A
Luminaire Lumens: 5691.0 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6104	6104	6104
5°	6076	6100	6096
10°	6063	6091	6087
15°	6020	6068	6105
20°	5959	6030	6079
25°	5885	5967	6040
30°	5793	5915	6023
35°	5709	5857	6005
40°	5615	5799	5988
45°	5508	5740	5995
50°	5390	5669	5992
55°	5249	5590	5999
60°	5052	5529	6014
65°	4821	5422	6033
70°	4493	5271	6059
75°	4003	5061	6118
80°	3311	4818	6418
85°	2152	4351	5608

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6621 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.4	3.2
10°-20°	527.9	9.3
20°-30°	796.1	14.0
30°-40°	958.9	16.8
40°-50°	1001.4	17.6
50°-60°	919.7	16.2
60°-70°	724.4	12.7
70°-80°	444.4	7.8
80°-90°	133.7	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°	1508.4	26.5
0°-40°	2467.3	43.4
0°-60°	4388.5	77.1
0°-90°	5691.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5691.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1949	1949	1949	1949	1949	
5°	1933	1936	1941	1947	1939	184
15°	1857	1861	1872	1883	1883	524
25°	1703	1707	1727	1748	1748	784
35°	1494	1501	1532	1564	1571	934
45°	1244	1258	1296	1341	1354	959
55°	962	979	1024	1081	1099	858
65°	651	673	732	793	814	644
75°	331	357	418	484	506	351
85°	60	82	121	154	156	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1949.3	1949.3	1949.3	1949.3	1949.3
2.5°	1941.8	1945.6	1946.8	1948.1	1939.3
5°	1933.1	1935.6	1940.6	1946.8	1939.3
7.5°	1920.6	1923.1	1929.3	1938.1	1934.3
10°	1906.9	1908.1	1915.6	1921.8	1914.4
12.5°	1884.4	1888.1	1896.9	1901.9	1899.4
15°	1856.9	1860.7	1871.9	1883.1	1883.1
17.5°	1824.4	1829.4	1843.2	1858.2	1859.4
20°	1788.2	1792.0	1809.5	1824.4	1824.4
22.5°	1747.0	1752.0	1769.5	1785.7	1788.2
25°	1703.3	1707.1	1727.0	1748.3	1748.3
27.5°	1652.1	1659.6	1684.6	1705.8	1710.8
30°	1602.2	1608.4	1635.9	1662.1	1665.9
32.5°	1549.7	1557.2	1585.9	1614.7	1620.9
35°	1493.5	1501.0	1532.2	1563.5	1570.9
37.5°	1434.8	1443.6	1476.0	1512.3	1519.7
40°	1373.6	1383.6	1418.6	1457.3	1464.8
42.5°	1308.7	1322.4	1359.9	1399.9	1411.1
45°	1243.8	1257.5	1296.2	1341.2	1353.7
47.5°	1175.1	1191.3	1231.3	1278.7	1292.5
50°	1106.4	1122.6	1163.8	1215.0	1230.0
52.5°	1036.5	1052.7	1095.2	1148.9	1165.1
55°	961.5	979.0	1024.0	1081.4	1098.9
57.5°	884.1	906.6	954.1	1012.7	1030.2
60°	806.7	829.2	882.9	940.3	960.3
62.5°	730.5	751.8	806.7	867.9	889.1
65°	650.6	673.1	731.8	793.0	814.2
67.5°	571.9	594.4	653.1	716.8	739.3
70°	490.8	515.7	575.7	639.4	661.8
72.5°	409.6	435.8	497.0	561.9	583.2
75°	330.9	357.1	418.3	484.5	505.7
77.5°	253.5	282.2	342.2	409.6	429.6
80°	183.6	211.0	267.2	333.4	355.9
82.5°	117.4	141.1	197.3	259.7	276.0
85°	59.9	82.4	121.1	153.6	156.1
87.5°	18.7	26.2	40.0	59.9	61.2
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	17.76	19.43	18.13	19.74	20.05	18.59	20.25	18.96	20.57	20.88
	3H	19.52	21.03	19.89	21.35	21.71	20.71	22.22	21.09	22.54	22.90
	4H	20.14	21.56	20.53	21.91	22.28	21.60	23.02	22.00	23.37	23.74
	6H	20.55	21.87	20.96	22.23	22.62	22.38	23.70	22.79	24.06	24.45
	8H	20.66	21.92	21.08	22.31	22.70	22.70	23.96	23.12	24.35	24.75
	12H	20.71	21.92	21.14	22.30	22.73	22.91	24.12	23.34	24.50	24.93
4H	2H	18.53	19.96	18.93	20.30	20.68	19.18	20.60	19.58	20.95	21.33
	3H	20.51	21.71	20.92	22.11	22.51	21.54	22.73	21.94	23.13	23.53
	4H	21.25	22.33	21.68	22.75	23.18	22.59	23.67	23.02	24.09	24.52
	6H	21.78	22.73	22.23	23.17	23.62	23.54	24.49	23.99	24.93	25.39
	8H	21.92	22.82	22.38	23.26	23.72	23.94	24.83	24.40	25.27	25.74
	12H	22.01	22.81	22.49	23.29	23.75	24.21	25.02	24.69	25.49	25.96
8H	4H	21.71	22.60	22.17	23.04	23.51	22.88	23.77	23.34	24.21	24.67
	6H	22.37	23.11	22.86	23.60	24.07	23.99	24.73	24.48	25.22	25.69
	8H	22.58	23.25	23.09	23.75	24.24	24.50	25.17	25.01	25.67	26.16
	12H	22.72	23.31	23.22	23.80	24.36	24.89	25.48	25.39	25.97	26.53
12H	4H	21.80	22.60	22.28	23.07	23.54	22.90	23.71	23.38	24.18	24.65
	6H	22.50	23.17	23.01	23.68	24.16	24.04	24.71	24.54	25.21	25.70
	8H	22.78	23.37	23.28	23.86	24.42	24.61	25.21	25.12	25.70	26.25