

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: P1586772

Luminaire Tested: 22CZSP-A-60HE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586772
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-L830-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 6700 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

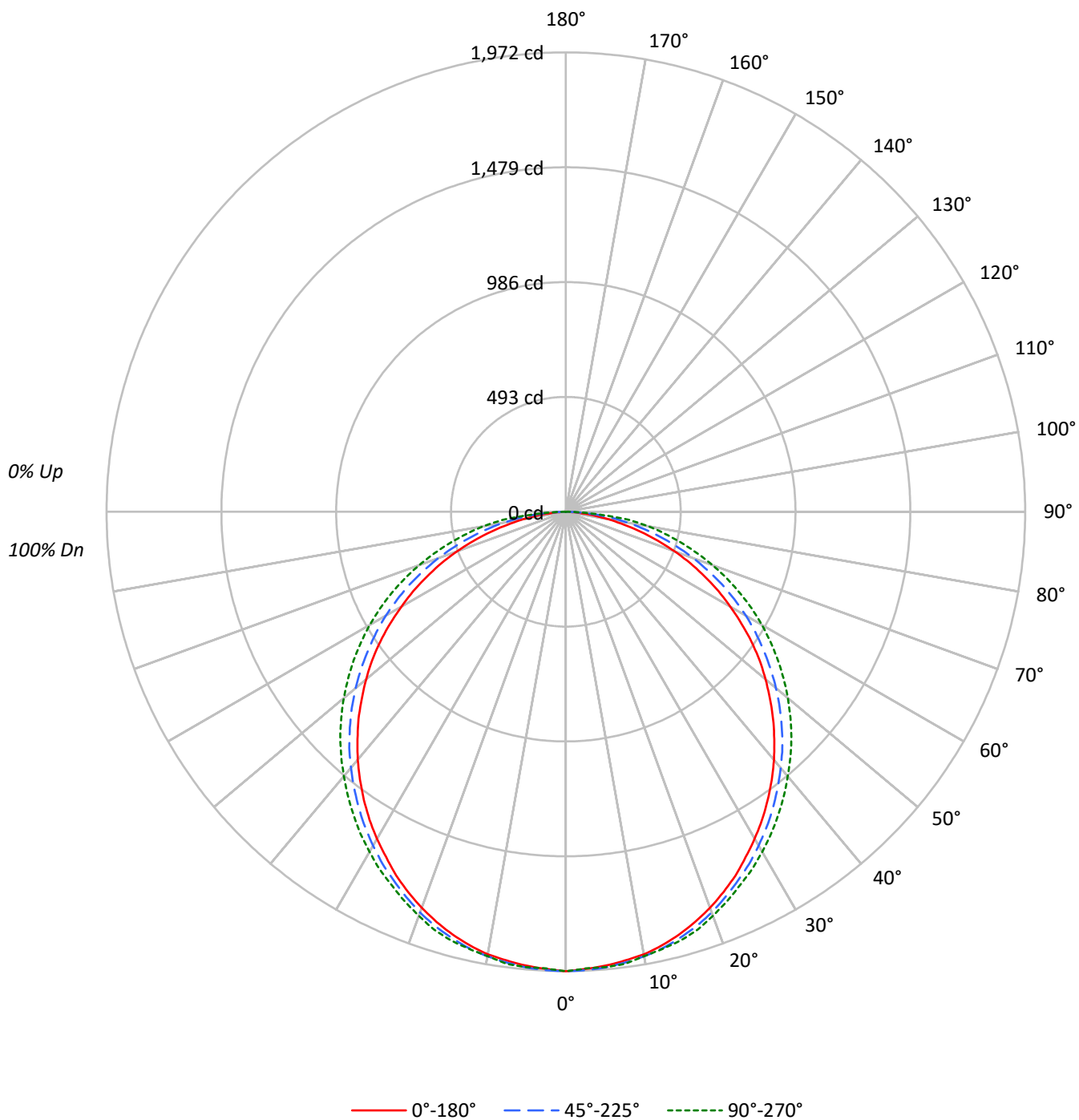
Lumens per Lamp: N/A
Luminaire Lumens: 5758.0 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	6176	6176	6176
5°	6148	6172	6168
10°	6134	6163	6159
15°	6091	6140	6177
20°	6029	6101	6151
25°	5954	6037	6112
30°	5861	5984	6094
35°	5776	5926	6076
40°	5681	5867	6058
45°	5573	5808	6065
50°	5453	5736	6063
55°	5311	5656	6070
60°	5112	5594	6085
65°	4878	5486	6104
70°	4546	5333	6130
75°	4051	5121	6191
80°	3349	4876	6494
85°	2177	4405	5673

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6698 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	3.2
10°-20°	534.1	9.3
20°-30°	805.5	14.0
30°-40°	970.2	16.8
40°-50°	1013.2	17.6
50°-60°	930.6	16.2
60°-70°	732.9	12.7
70°-80°	449.6	7.8
80°-90°	135.3	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°	1526.1	26.5
0°-40°	2496.3	43.4
0°-60°	4440.1	77.1
0°-90°	5758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1972	1972	1972	1972	1972	
5°	1956	1958	1963	1970	1962	186
15°	1879	1883	1894	1905	1905	530
25°	1723	1727	1747	1769	1769	793
35°	1511	1519	1550	1582	1589	945
45°	1258	1272	1312	1357	1370	970
55°	973	991	1036	1094	1112	869
65°	658	681	740	802	824	651
75°	335	361	423	490	512	355
85°	61	83	123	155	158	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1972.3	1972.3	1972.3	1972.3	1972.3
2.5°	1964.7	1968.5	1969.7	1971.0	1962.2
5°	1955.8	1958.4	1963.4	1969.7	1962.2
7.5°	1943.2	1945.7	1952.1	1960.9	1957.1
10°	1929.3	1930.6	1938.2	1944.5	1936.9
12.5°	1906.6	1910.4	1919.2	1924.3	1921.7
15°	1878.8	1882.6	1893.9	1905.3	1905.3
17.5°	1845.9	1851.0	1864.9	1880.0	1881.3
20°	1809.3	1813.1	1830.8	1845.9	1845.9
22.5°	1767.6	1772.6	1790.3	1806.8	1809.3
25°	1723.4	1727.2	1747.4	1768.9	1768.9
27.5°	1671.6	1679.1	1704.4	1725.9	1730.9
30°	1621.0	1627.3	1655.1	1681.7	1685.5
32.5°	1568.0	1575.5	1604.6	1633.7	1640.0
35°	1511.1	1518.7	1550.3	1581.9	1589.4
37.5°	1451.7	1460.6	1493.4	1530.1	1537.6
40°	1389.8	1399.9	1435.3	1474.5	1482.0
42.5°	1324.1	1338.0	1375.9	1416.3	1427.7
45°	1258.4	1272.3	1311.5	1357.0	1369.6
47.5°	1188.9	1205.3	1245.8	1293.8	1307.7
50°	1119.4	1135.9	1177.5	1229.4	1244.5
52.5°	1048.7	1065.1	1108.1	1162.4	1178.8
55°	972.9	990.6	1036.0	1094.2	1111.8
57.5°	894.5	917.3	965.3	1024.7	1042.4
60°	816.2	838.9	893.3	951.4	971.6
62.5°	739.1	760.6	816.2	878.1	899.6
65°	658.3	681.0	740.4	802.3	823.8
67.5°	578.7	601.4	660.8	725.2	748.0
70°	496.5	521.8	582.5	646.9	669.6
72.5°	414.4	440.9	502.9	568.6	590.0
75°	334.8	361.4	423.3	490.2	511.7
77.5°	256.5	285.5	346.2	414.4	434.6
80°	185.7	213.5	270.4	337.3	360.1
82.5°	118.8	142.8	199.6	262.8	279.2
85°	60.6	83.4	122.6	155.4	157.9
87.5°	19.0	26.5	40.4	60.6	61.9
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	17.80	19.47	18.17	19.78	20.09	18.63	20.30	19.00	20.61	20.92
	3H	19.56	21.07	19.94	21.39	21.75	20.75	22.26	21.13	22.58	22.94
	4H	20.18	21.60	20.58	21.95	22.32	21.64	23.06	22.04	23.41	23.78
	6H	20.59	21.91	21.00	22.27	22.66	22.42	23.74	22.83	24.10	24.49
	8H	20.70	21.96	21.12	22.35	22.75	22.74	24.00	23.16	24.39	24.79
	12H	20.75	21.96	21.18	22.34	22.77	22.95	24.16	23.38	24.54	24.97
4H	2H	18.58	20.00	18.97	20.35	20.72	19.22	20.64	19.62	20.99	21.37
	3H	20.55	21.75	20.96	22.15	22.55	21.58	22.78	21.99	23.17	23.57
	4H	21.29	22.38	21.72	22.79	23.22	22.63	23.72	23.06	24.13	24.56
	6H	21.82	22.77	22.27	23.21	23.66	23.58	24.53	24.03	24.97	25.43
	8H	21.96	22.86	22.42	23.30	23.76	23.98	24.87	24.44	25.31	25.78
	12H	22.05	22.85	22.53	23.33	23.79	24.26	25.06	24.73	25.53	26.00
8H	4H	21.75	22.64	22.21	23.08	23.55	22.92	23.81	23.38	24.25	24.72
	6H	22.41	23.15	22.90	23.64	24.11	24.03	24.77	24.52	25.26	25.73
	8H	22.62	23.29	23.13	23.79	24.28	24.54	25.21	25.05	25.71	26.20
	12H	22.76	23.35	23.26	23.84	24.40	24.93	25.52	25.43	26.01	26.57
12H	4H	21.84	22.64	22.32	23.12	23.58	22.94	23.75	23.42	24.22	24.69
	6H	22.54	23.21	23.05	23.72	24.20	24.08	24.75	24.58	25.25	25.74
	8H	22.82	23.41	23.32	23.90	24.46	24.65	25.25	25.16	25.74	26.29