

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: P1586774

Luminaire Tested: 22CZSP-A-60HE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586774
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-L835-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 6700 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

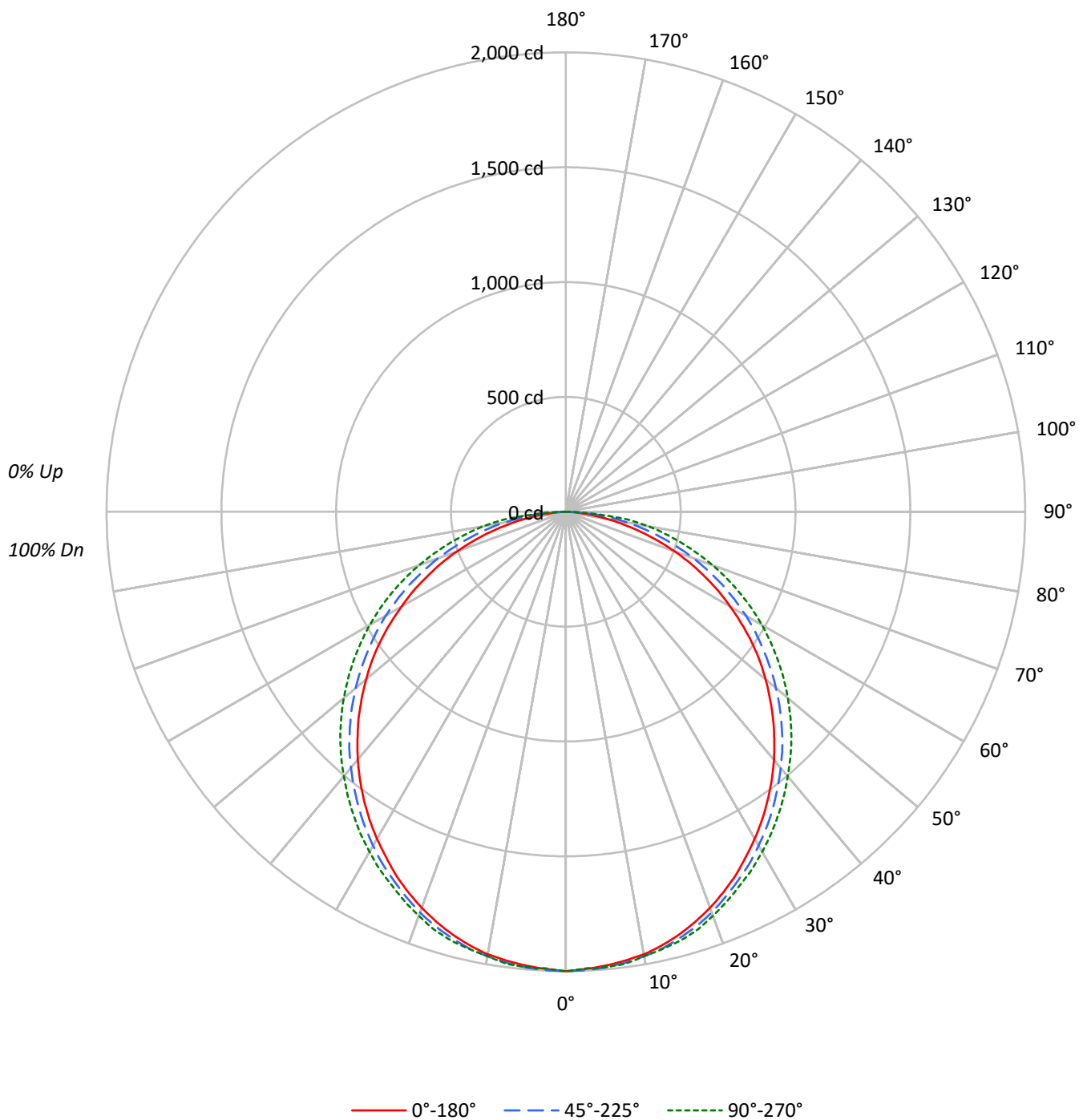
Lumens per Lamp: N/A
Luminaire Lumens: 5840.0 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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
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°	6264	6264	6264
5°	6235	6260	6255
10°	6222	6251	6246
15°	6177	6227	6264
20°	6115	6187	6239
25°	6039	6123	6198
30°	5945	6070	6181
35°	5859	6010	6162
40°	5762	5950	6145
45°	5652	5891	6151
50°	5531	5818	6149
55°	5387	5737	6156
60°	5184	5674	6171
65°	4946	5564	6191
70°	4611	5409	6218
75°	4109	5194	6279
80°	3397	4945	6586
85°	2210	4466	5756

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6794 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	3.2
10°-20°	541.7	9.3
20°-30°	817.0	14.0
30°-40°	984.0	16.8
40°-50°	1027.7	17.6
50°-60°	943.8	16.2
60°-70°	743.4	12.7
70°-80°	456.0	7.8
80°-90°	137.2	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°	1547.9	26.5
0°-40°	2531.9	43.4
0°-60°	4503.4	77.1
0°-90°	5840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2000	2000	2000	2000	2000	
5°	1984	1986	1991	1998	1990	188
15°	1906	1909	1921	1932	1932	537
25°	1748	1752	1772	1794	1794	805
35°	1533	1540	1572	1604	1612	959
45°	1276	1290	1330	1376	1389	984
55°	987	1005	1051	1110	1128	881
65°	668	691	751	814	836	660
75°	340	366	429	497	519	360
85°	62	85	124	158	160	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2000.4	2000.4	2000.4	2000.4	2000.4
2.5°	1992.7	1996.5	1997.8	1999.1	1990.1
5°	1983.7	1986.3	1991.4	1997.8	1990.1
7.5°	1970.9	1973.4	1979.9	1988.8	1985.0
10°	1956.8	1958.1	1965.8	1972.2	1964.5
12.5°	1933.7	1937.6	1946.5	1951.7	1949.1
15°	1905.5	1909.4	1920.9	1932.4	1932.4
17.5°	1872.2	1877.3	1891.4	1906.8	1908.1
20°	1835.0	1838.9	1856.8	1872.2	1872.2
22.5°	1792.8	1797.9	1815.8	1832.5	1835.0
25°	1747.9	1751.8	1772.3	1794.0	1794.0
27.5°	1695.4	1703.1	1728.7	1750.5	1755.6
30°	1644.1	1650.5	1678.7	1705.6	1709.5
32.5°	1590.3	1598.0	1627.5	1656.9	1663.3
35°	1532.6	1540.3	1572.3	1604.4	1612.1
37.5°	1472.4	1481.4	1514.7	1551.8	1559.5
40°	1409.6	1419.9	1455.7	1495.5	1503.2
42.5°	1343.0	1357.1	1395.5	1436.5	1448.0
45°	1276.3	1290.4	1330.2	1376.3	1389.1
47.5°	1205.9	1222.5	1263.5	1312.2	1326.3
50°	1135.4	1152.0	1194.3	1246.9	1262.2
52.5°	1063.6	1080.3	1123.8	1178.9	1195.6
55°	986.7	1004.7	1050.8	1109.7	1127.7
57.5°	907.3	930.3	979.0	1039.3	1057.2
60°	827.8	850.9	906.0	964.9	985.4
62.5°	749.7	771.4	827.8	890.6	912.4
65°	667.6	690.7	750.9	813.7	835.5
67.5°	586.9	610.0	670.2	735.6	758.6
70°	503.6	529.2	590.8	656.1	679.2
72.5°	420.3	447.2	510.0	576.7	598.4
75°	339.6	366.5	429.3	497.2	519.0
77.5°	260.1	289.6	351.1	420.3	440.8
80°	188.4	216.6	274.2	342.1	365.2
82.5°	120.5	144.8	202.5	266.5	283.2
85°	61.5	84.6	124.3	157.6	160.2
87.5°	19.2	26.9	41.0	61.5	62.8
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	17.85	19.51	18.22	19.83	20.14	18.68	20.35	19.05	20.66	20.97
	3H	19.61	21.12	19.98	21.44	21.80	20.80	22.31	21.18	22.63	22.99
	4H	20.23	21.65	20.62	22.00	22.37	21.69	23.11	22.09	23.46	23.83
	6H	20.64	21.96	21.05	22.32	22.71	22.47	23.79	22.88	24.15	24.54
	8H	20.75	22.01	21.17	22.40	22.79	22.79	24.05	23.21	24.44	24.84
	12H	20.80	22.01	21.23	22.39	22.82	23.00	24.21	23.43	24.59	25.02
4H	2H	18.62	20.05	19.02	20.39	20.77	19.27	20.69	19.67	21.04	21.42
	3H	20.60	21.80	21.01	22.20	22.60	21.63	22.82	22.03	23.22	23.62
	4H	21.34	22.42	21.77	22.84	23.27	22.68	23.76	23.11	24.18	24.61
	6H	21.87	22.82	22.32	23.26	23.71	23.63	24.58	24.08	25.02	25.48
	8H	22.01	22.91	22.47	23.35	23.81	24.03	24.92	24.49	25.36	25.83
	12H	22.10	22.90	22.58	23.38	23.84	24.30	25.11	24.78	25.58	26.05
8H	4H	21.80	22.69	22.26	23.13	23.60	22.97	23.86	23.43	24.30	24.76
	6H	22.46	23.20	22.95	23.69	24.16	24.08	24.82	24.57	25.31	25.78
	8H	22.67	23.34	23.18	23.84	24.33	24.59	25.26	25.10	25.76	26.25
	12H	22.81	23.40	23.31	23.89	24.45	24.98	25.57	25.48	26.06	26.62
12H	4H	21.89	22.69	22.37	23.16	23.63	22.99	23.80	23.47	24.27	24.74
	6H	22.59	23.26	23.10	23.77	24.25	24.13	24.80	24.63	25.30	25.78
	8H	22.87	23.46	23.37	23.95	24.51	24.70	25.30	25.21	25.79	26.34