

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: P1586780

Luminaire Tested: 22CZSP-A-60HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586780
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-L850-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 6700 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

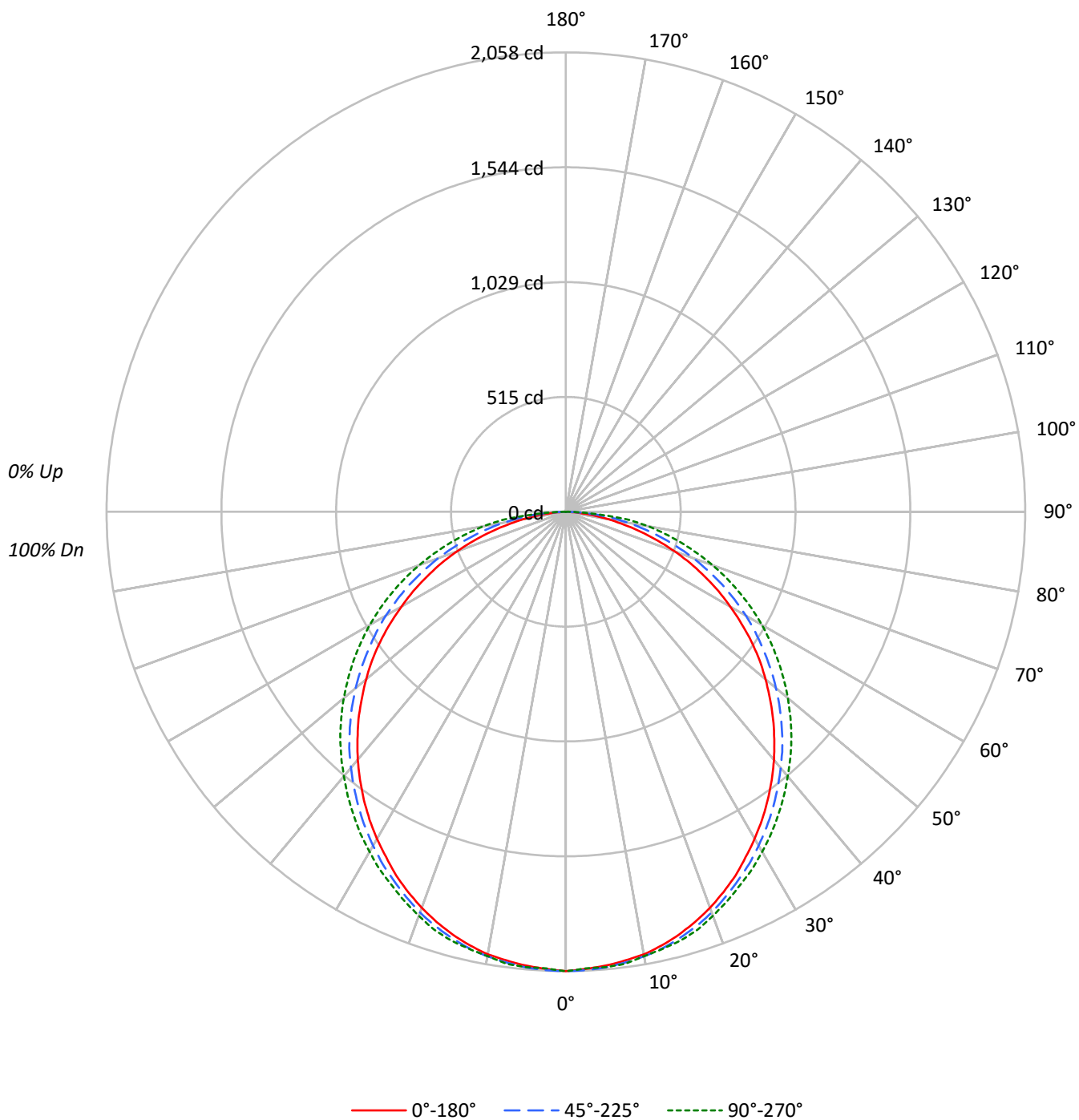
Lumens per Lamp: N/A
Luminaire Lumens: 6009.0 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	6445	6445	6445
5°	6416	6441	6437
10°	6402	6431	6427
15°	6356	6407	6446
20°	6292	6367	6419
25°	6214	6300	6378
30°	6117	6245	6360
35°	6028	6185	6341
40°	5929	6123	6322
45°	5816	6061	6329
50°	5691	5987	6327
55°	5543	5903	6334
60°	5335	5838	6350
65°	5090	5725	6370
70°	4744	5565	6398
75°	4227	5344	6461
80°	3495	5089	6777
85°	2274	4595	5921

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6991 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.7	3.2
10°-20°	557.4	9.3
20°-30°	840.6	14.0
30°-40°	1012.5	16.8
40°-50°	1057.4	17.6
50°-60°	971.1	16.2
60°-70°	764.9	12.7
70°-80°	469.2	7.8
80°-90°	141.2	2.4
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°	1592.7	26.5
0°-40°	2605.2	43.4
0°-60°	4633.7	77.1
0°-90°	6009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6009.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2058	2058	2058	2058	2058	
5°	2041	2044	2049	2056	2048	194
15°	1961	1965	1976	1988	1988	553
25°	1798	1802	1824	1846	1846	828
35°	1577	1585	1618	1651	1659	986
45°	1313	1328	1369	1416	1429	1013
55°	1015	1034	1081	1142	1160	906
65°	687	711	773	837	860	680
75°	349	377	442	512	534	370
85°	63	87	128	162	165	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2058.2	2058.2	2058.2	2058.2	2058.2
2.5°	2050.3	2054.3	2055.6	2056.9	2047.7
5°	2041.1	2043.7	2049.0	2055.6	2047.7
7.5°	2027.9	2030.6	2037.1	2046.4	2042.4
10°	2013.4	2014.7	2022.6	2029.2	2021.3
12.5°	1989.7	1993.6	2002.9	2008.1	2005.5
15°	1960.7	1964.6	1976.5	1988.4	1988.4
17.5°	1926.4	1931.7	1946.2	1962.0	1963.3
20°	1888.2	1892.1	1910.6	1926.4	1926.4
22.5°	1844.6	1849.9	1868.4	1885.5	1888.2
25°	1798.5	1802.4	1823.5	1846.0	1846.0
27.5°	1744.4	1752.3	1778.7	1801.1	1806.4
30°	1691.7	1698.3	1727.3	1755.0	1758.9
32.5°	1636.3	1644.2	1674.5	1704.9	1711.5
35°	1577.0	1584.9	1617.9	1650.8	1658.7
37.5°	1515.0	1524.2	1558.5	1596.8	1604.7
40°	1450.4	1460.9	1497.9	1538.7	1546.6
42.5°	1381.8	1396.3	1435.9	1478.1	1490.0
45°	1313.3	1327.8	1368.6	1416.1	1429.3
47.5°	1240.7	1257.9	1300.1	1350.2	1364.7
50°	1168.2	1185.4	1228.9	1282.9	1298.8
52.5°	1094.4	1111.5	1156.4	1213.1	1230.2
55°	1015.3	1033.7	1081.2	1141.9	1160.3
57.5°	933.5	957.3	1007.4	1069.3	1087.8
60°	851.8	875.5	932.2	992.9	1014.0
62.5°	771.3	793.8	851.8	916.4	938.8
65°	687.0	710.7	772.7	837.3	859.7
67.5°	603.9	627.6	689.6	756.8	780.6
70°	518.2	544.6	607.8	675.1	698.8
72.5°	432.5	460.2	524.8	593.3	615.8
75°	349.4	377.1	441.7	511.6	534.0
77.5°	267.7	298.0	361.3	432.5	453.6
80°	193.8	222.8	282.2	352.1	375.8
82.5°	123.9	149.0	208.3	274.3	291.4
85°	63.3	87.0	127.9	162.2	164.8
87.5°	19.8	27.7	42.2	63.3	64.6
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	17.95	19.61	18.32	19.93	20.24	18.78	20.44	19.15	20.76	21.07
	3H	19.71	21.21	20.08	21.54	21.90	20.90	22.41	21.27	22.73	23.09
	4H	20.33	21.75	20.72	22.10	22.47	21.79	23.21	22.18	23.56	23.93
	6H	20.74	22.06	21.15	22.42	22.81	22.57	23.89	22.98	24.25	24.64
	8H	20.84	22.11	21.27	22.50	22.89	22.89	24.15	23.31	24.54	24.94
	12H	20.90	22.11	21.33	22.49	22.92	23.10	24.31	23.53	24.69	25.12
4H	2H	18.72	20.15	19.12	20.49	20.87	19.37	20.79	19.77	21.14	21.51
	3H	20.70	21.90	21.11	22.30	22.69	21.72	22.92	22.13	23.32	23.72
	4H	21.44	22.52	21.87	22.94	23.37	22.78	23.86	23.21	24.28	24.71
	6H	21.97	22.92	22.42	23.36	23.81	23.73	24.68	24.18	25.12	25.58
	8H	22.11	23.00	22.57	23.45	23.91	24.13	25.02	24.59	25.46	25.92
	12H	22.20	23.00	22.68	23.47	23.94	24.40	25.21	24.88	25.68	26.15
8H	4H	21.90	22.79	22.36	23.23	23.69	23.07	23.96	23.52	24.40	24.86
	6H	22.56	23.30	23.05	23.79	24.26	24.18	24.92	24.67	25.41	25.88
	8H	22.77	23.44	23.28	23.94	24.43	24.69	25.36	25.20	25.86	26.35
	12H	22.91	23.50	23.41	23.99	24.55	25.08	25.67	25.58	26.16	26.72
12H	4H	21.99	22.79	22.47	23.26	23.73	23.09	23.89	23.57	24.37	24.84
	6H	22.69	23.36	23.20	23.86	24.35	24.23	24.89	24.73	25.40	25.88
	8H	22.97	23.56	23.47	24.05	24.61	24.80	25.40	25.31	25.88	26.44