

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: P1586781

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-668-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-A-60HE-L850
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 6700 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

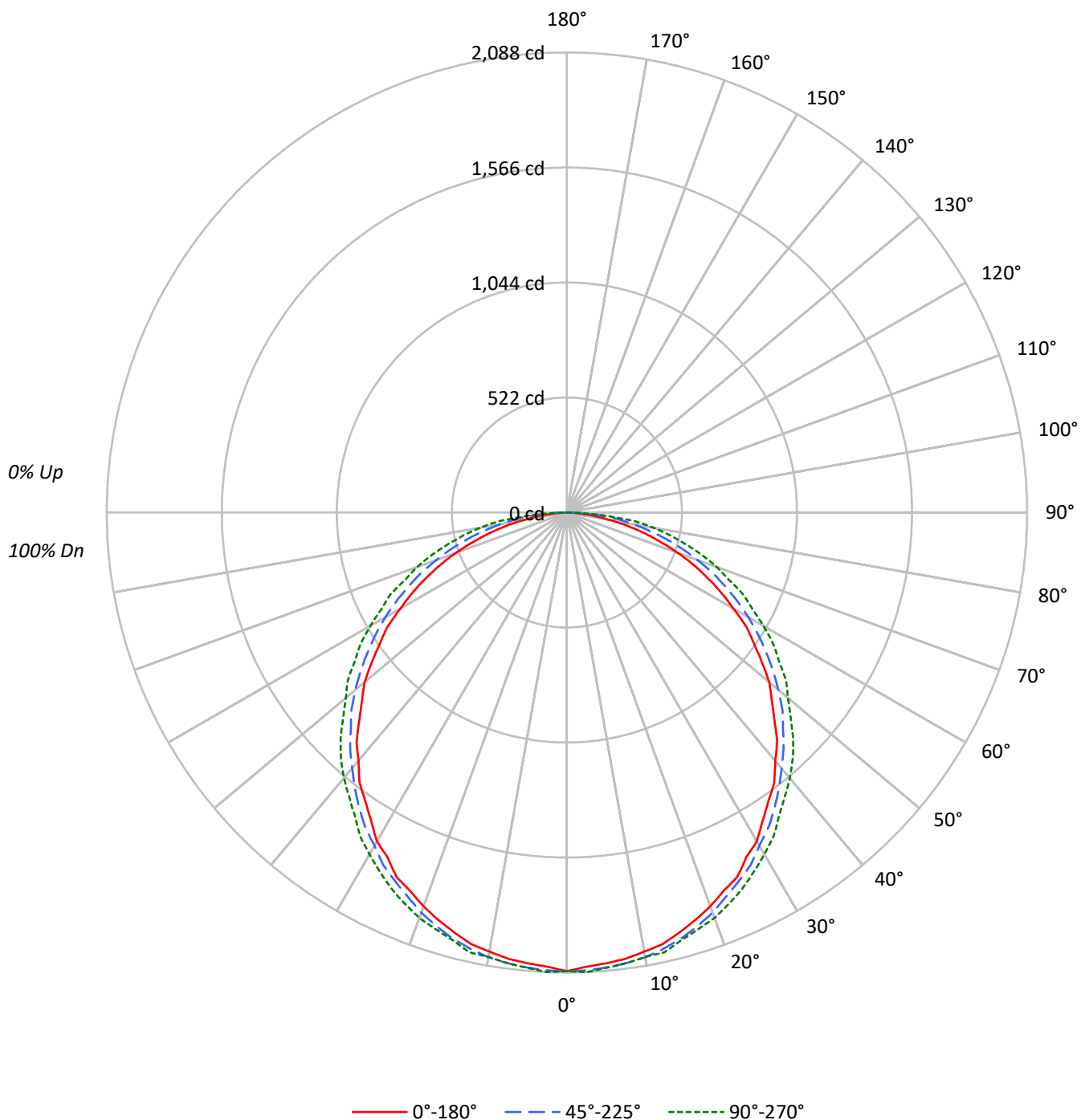
Lumens per Lamp: N/A
Luminaire Lumens: 6132.0 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45		56	50	44		55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35		46	40	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6519	6519	6519
5°	6455	6514	6520
10°	6435	6518	6512
15°	6396	6487	6512
20°	6337	6437	6525
25°	6312	6377	6506
30°	6232	6313	6477
35°	6101	6273	6417
40°	6010	6195	6432
45°	5897	6138	6429
50°	5838	6103	6377
55°	5652	6021	6410
60°	5462	5955	6449
65°	5225	5865	6559
70°	4911	5752	6628
75°	4424	5650	6762
80°	3619	5547	7204
85°	2357	5526	6740

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 7559 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.8	3.2
10°-20°	563.5	9.2
20°-30°	851.6	13.9
30°-40°	1027.1	16.8
40°-50°	1073.8	17.5
50°-60°	990.2	16.1
60°-70°	784.6	12.8
70°-80°	490.6	8.0
80°-90°	153.9	2.5
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°	1611.9	26.3
0°-40°	2639.0	43.0
0°-60°	4702.9	76.7
0°-90°	6132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6132.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2082	2082	2082	2082	2082	
5°	2054	2063	2072	2080	2074	195
15°	1973	1982	2001	2014	2009	557
25°	1827	1821	1846	1872	1883	838
35°	1596	1615	1641	1669	1679	1001
45°	1332	1350	1386	1422	1452	1031
55°	1035	1060	1103	1163	1174	928
65°	705	735	792	853	885	699
75°	366	396	467	533	559	385
85°	66	94	154	180	188	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2081.9	2081.9	2081.9	2081.9	2081.9
2.5°	2063.1	2072.5	2080.0	2078.1	2087.5
5°	2053.7	2063.1	2072.5	2080.0	2074.4
7.5°	2042.5	2051.9	2063.1	2074.4	2063.1
10°	2023.7	2029.4	2050.0	2051.9	2048.1
12.5°	2006.8	2012.5	2027.5	2040.6	2044.4
15°	1973.1	1982.5	2001.2	2014.4	2008.7
17.5°	1939.3	1952.5	1969.3	1982.5	1982.5
20°	1901.8	1911.2	1931.8	1941.2	1958.1
22.5°	1858.7	1869.9	1886.8	1913.1	1922.4
25°	1826.8	1821.2	1845.6	1871.8	1883.1
27.5°	1763.0	1770.5	1804.3	1828.7	1838.0
30°	1723.6	1727.4	1746.1	1779.9	1791.2
32.5°	1654.2	1665.5	1699.3	1723.6	1744.3
35°	1596.1	1614.9	1641.1	1669.2	1678.6
37.5°	1545.5	1549.2	1579.2	1616.7	1624.2
40°	1470.4	1492.9	1515.5	1562.3	1573.6
42.5°	1412.3	1423.5	1455.4	1500.4	1517.3
45°	1331.6	1350.4	1386.0	1421.7	1451.7
47.5°	1260.4	1279.1	1326.0	1371.0	1376.7
50°	1198.5	1206.0	1252.9	1303.5	1309.1
52.5°	1114.1	1132.8	1177.9	1234.1	1252.9
55°	1035.3	1059.7	1102.8	1162.8	1174.1
57.5°	965.9	977.2	1027.8	1087.8	1110.3
60°	872.1	904.0	950.9	1009.1	1029.7
62.5°	791.5	821.5	872.1	926.5	949.0
65°	705.2	735.2	791.5	853.4	885.3
67.5°	622.7	647.1	714.6	778.4	793.4
70°	536.4	564.5	628.3	694.0	724.0
72.5°	446.4	478.3	549.5	611.4	643.3
75°	365.7	395.7	467.0	532.7	558.9
77.5°	281.3	315.1	384.5	450.1	480.1
80°	200.7	234.4	307.6	373.2	399.5
82.5°	129.4	165.0	234.4	292.6	315.1
85°	65.6	93.8	153.8	180.1	187.6
87.5°	20.6	33.8	52.5	60.0	60.0
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	18.04	19.71	18.40	20.02	20.33	18.83	20.49	19.19	20.81	21.12
	3H	19.82	21.33	20.20	21.66	22.02	20.97	22.48	21.35	22.81	23.17
	4H	20.46	21.89	20.85	22.23	22.61	21.90	23.32	22.29	23.67	24.04
	6H	20.88	22.21	21.29	22.57	22.96	22.72	24.05	23.13	24.41	24.80
	8H	21.00	22.26	21.42	22.65	23.05	23.07	24.33	23.49	24.72	25.12
	12H	21.05	22.27	21.48	22.65	23.08	23.31	24.53	23.74	24.91	25.34
4H	2H	18.81	20.24	19.21	20.59	20.96	19.42	20.85	19.82	21.20	21.57
	3H	20.82	22.02	21.23	22.42	22.82	21.81	23.01	22.22	23.41	23.81
	4H	21.58	22.67	22.01	23.09	23.52	22.90	23.99	23.33	24.40	24.84
	6H	22.13	23.09	22.58	23.53	23.98	23.90	24.85	24.35	25.29	25.75
	8H	22.28	23.18	22.74	23.62	24.09	24.32	25.22	24.78	25.66	26.13
	12H	22.37	23.18	22.85	23.66	24.12	24.64	25.44	25.11	25.92	26.39
8H	4H	22.06	22.96	22.52	23.40	23.86	23.20	24.10	23.66	24.54	25.01
	6H	22.75	23.50	23.24	23.99	24.46	24.37	25.12	24.86	25.61	26.08
	8H	22.98	23.65	23.49	24.16	24.64	24.91	25.59	25.42	26.09	26.58
	12H	23.13	23.72	23.63	24.21	24.77	25.34	25.94	25.85	26.43	26.99
12H	4H	22.16	22.97	22.64	23.44	23.91	23.23	24.04	23.71	24.52	24.98
	6H	22.90	23.57	23.41	24.08	24.56	24.43	25.10	24.93	25.61	26.09
	8H	23.20	23.80	23.71	24.29	24.85	25.04	25.64	25.55	26.13	26.69