

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: P1586535

Luminaire Tested: 22CZSP-60HE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586535
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-60HE-L835
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 6700 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

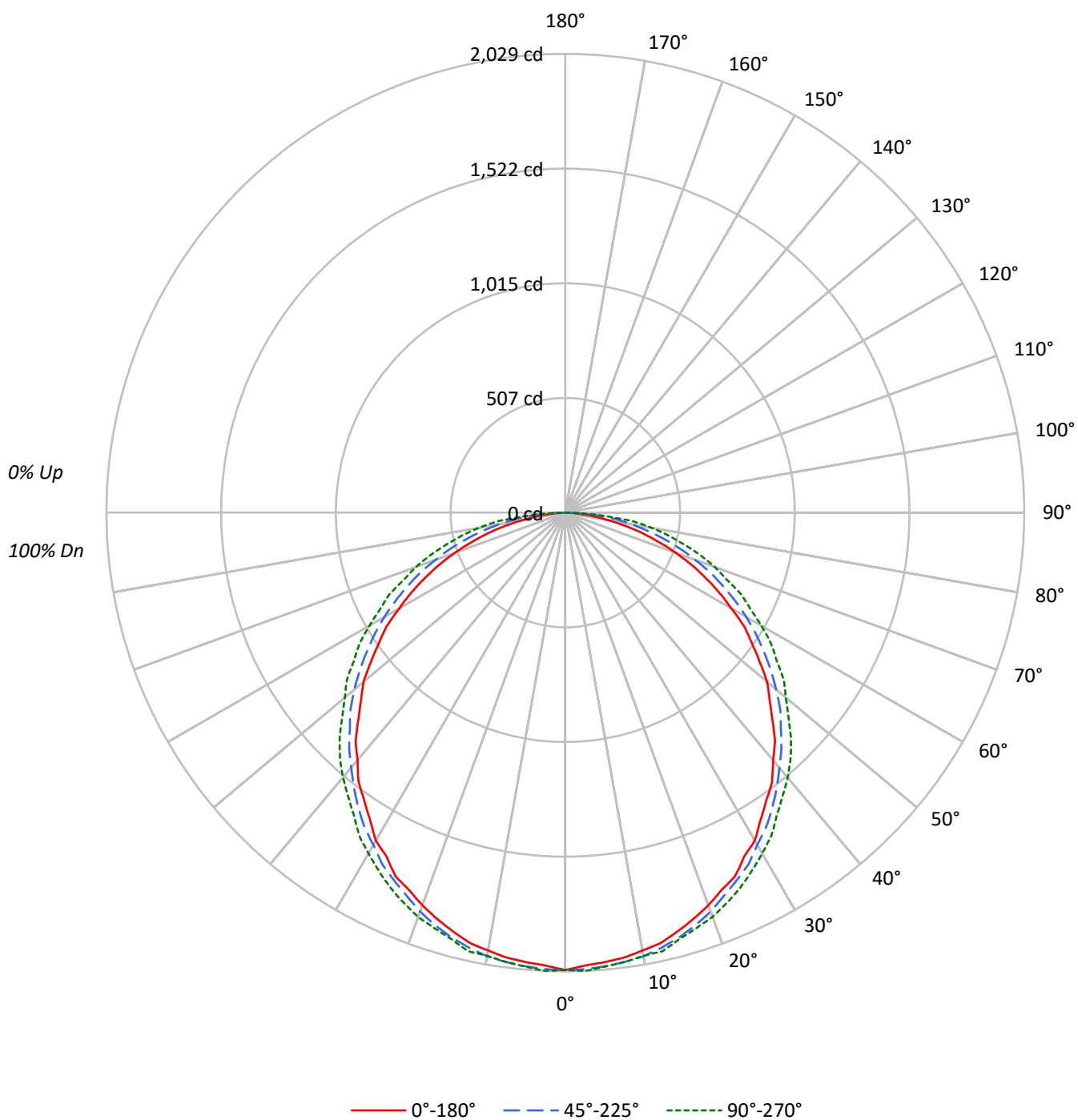
Lumens per Lamp: N/A
Luminaire Lumens: 5959.0 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	6335	6335	6335
5°	6273	6331	6336
10°	6253	6334	6328
15°	6216	6305	6328
20°	6159	6256	6341
25°	6134	6197	6322
30°	6056	6136	6294
35°	5929	6096	6236
40°	5841	6020	6251
45°	5731	5965	6247
50°	5674	5931	6197
55°	5493	5851	6229
60°	5308	5787	6266
65°	5078	5699	6374
70°	4773	5590	6441
75°	4300	5490	6571
80°	3516	5390	7000
85°	2292	5371	6550

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 7346 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.2	3.2
10°-20°	547.6	9.2
20°-30°	827.6	13.9
30°-40°	998.2	16.8
40°-50°	1043.5	17.5
50°-60°	962.2	16.1
60°-70°	762.5	12.8
70°-80°	476.7	8.0
80°-90°	149.5	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°	1566.4	26.3
0°-40°	2564.6	43.0
0°-60°	4570.3	76.7
0°-90°	5959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2023	2023	2023	2023	2023	
5°	1996	2005	2014	2021	2016	190
15°	1917	1926	1945	1958	1952	541
25°	1775	1770	1794	1819	1830	814
35°	1551	1569	1595	1622	1631	973
45°	1294	1312	1347	1382	1411	1002
55°	1006	1030	1072	1130	1141	902
65°	685	714	769	829	860	679
75°	355	385	454	518	543	375
85°	64	91	150	175	182	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2023.1	2023.1	2023.1	2023.1	2023.1
2.5°	2004.9	2014.0	2021.3	2019.5	2028.6
5°	1995.8	2004.9	2014.0	2021.3	2015.8
7.5°	1984.9	1994.0	2004.9	2015.8	2004.9
10°	1966.6	1972.1	1992.2	1994.0	1990.3
12.5°	1950.2	1955.7	1970.3	1983.0	1986.7
15°	1917.4	1926.5	1944.8	1957.5	1952.1
17.5°	1884.6	1897.4	1913.8	1926.5	1926.5
20°	1848.2	1857.3	1877.3	1886.4	1902.8
22.5°	1806.2	1817.2	1833.6	1859.1	1868.2
25°	1775.3	1769.8	1793.5	1819.0	1829.9
27.5°	1713.3	1720.6	1753.4	1777.1	1786.2
30°	1675.0	1678.7	1696.9	1729.7	1740.6
32.5°	1607.6	1618.5	1651.3	1675.0	1695.1
35°	1551.1	1569.3	1594.8	1622.2	1631.3
37.5°	1501.9	1505.5	1534.7	1571.1	1578.4
40°	1429.0	1450.8	1472.7	1518.3	1529.2
42.5°	1372.5	1383.4	1414.4	1458.1	1474.5
45°	1294.1	1312.3	1346.9	1381.6	1410.7
47.5°	1224.8	1243.0	1288.6	1332.4	1337.8
50°	1164.7	1172.0	1217.5	1266.7	1272.2
52.5°	1082.7	1100.9	1144.6	1199.3	1217.5
55°	1006.1	1029.8	1071.7	1130.0	1141.0
57.5°	938.7	949.6	998.8	1057.1	1079.0
60°	847.5	878.5	924.1	980.6	1000.6
62.5°	769.2	798.3	847.5	900.4	922.3
65°	685.3	714.5	769.2	829.3	860.3
67.5°	605.1	628.8	694.4	756.4	771.0
70°	521.3	548.6	610.6	674.4	703.5
72.5°	433.8	464.8	534.0	594.2	625.2
75°	355.4	384.6	453.8	517.6	543.1
77.5°	273.4	306.2	373.6	437.4	466.6
80°	195.0	227.8	298.9	362.7	388.2
82.5°	125.8	160.4	227.8	284.3	306.2
85°	63.8	91.1	149.5	175.0	182.3
87.5°	20.0	32.8	51.0	58.3	58.3
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	17.94	19.61	18.30	19.92	20.23	18.73	20.40	19.09	20.71	21.02
	3H	19.72	21.23	20.10	21.56	21.92	20.87	22.38	21.25	22.71	23.07
	4H	20.36	21.79	20.76	22.13	22.51	21.80	23.22	22.19	23.57	23.95
	6H	20.78	22.11	21.19	22.47	22.86	22.62	23.95	23.03	24.31	24.70
	8H	20.90	22.17	21.32	22.55	22.95	22.97	24.24	23.39	24.62	25.02
	12H	20.95	22.17	21.38	22.55	22.98	23.21	24.43	23.64	24.81	25.24
4H	2H	18.71	20.14	19.11	20.49	20.86	19.32	20.75	19.72	21.10	21.47
	3H	20.72	21.93	21.13	22.32	22.72	21.71	22.91	22.12	23.31	23.71
	4H	21.48	22.57	21.91	22.99	23.42	22.80	23.89	23.23	24.30	24.74
	6H	22.03	22.99	22.48	23.43	23.88	23.80	24.75	24.25	25.19	25.65
	8H	22.19	23.08	22.64	23.52	23.99	24.22	25.12	24.68	25.56	26.03
	12H	22.27	23.08	22.75	23.56	24.02	24.54	25.35	25.01	25.82	26.29
8H	4H	21.96	22.86	22.42	23.30	23.77	23.11	24.00	23.56	24.44	24.91
	6H	22.65	23.40	23.14	23.89	24.36	24.27	25.02	24.76	25.51	25.98
	8H	22.88	23.55	23.39	24.06	24.54	24.81	25.49	25.32	25.99	26.48
	12H	23.03	23.62	23.53	24.11	24.67	25.24	25.84	25.75	26.33	26.89
12H	4H	22.06	22.87	22.54	23.34	23.81	23.13	23.94	23.61	24.42	24.89
	6H	22.80	23.48	23.31	23.98	24.46	24.33	25.00	24.83	25.51	25.99
	8H	23.10	23.70	23.61	24.19	24.75	24.94	25.54	25.45	26.03	26.59