

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: P1587827

Luminaire Tested: 22CZSP-SB-60HE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-60HE-L940
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 6700 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

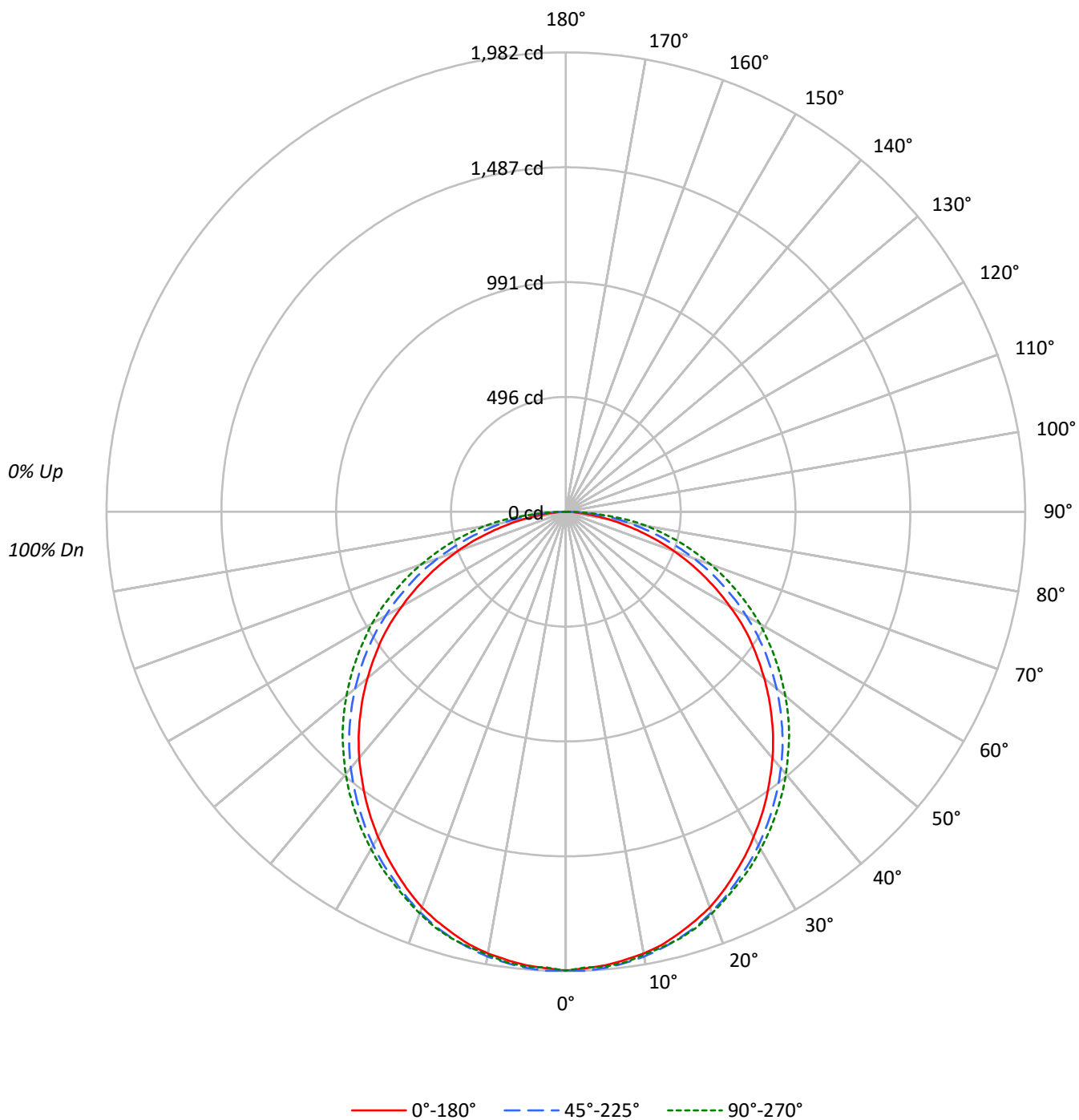
Lumens per Lamp: N/A
Luminaire Lumens: 5775.0 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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
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	63	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°	6197	6197	6197
5°	6174	6209	6193
10°	6152	6195	6172
15°	6106	6169	6177
20°	6052	6126	6146
25°	5954	6060	6102
30°	5860	6010	6077
35°	5766	5953	6055
40°	5671	5901	6040
45°	5564	5846	6035
50°	5442	5781	6020
55°	5318	5719	6019
60°	5121	5634	6055
65°	4881	5524	6059
70°	4555	5371	6076
75°	4052	5176	6181
80°	3329	4959	6414
85°	2195	4656	5795

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6568 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	3.2
10°-20°	535.8	9.3
20°-30°	807.6	14.0
30°-40°	972.5	16.8
40°-50°	1016.0	17.6
50°-60°	933.5	16.2
60°-70°	735.1	12.7
70°-80°	450.7	7.8
80°-90°	136.6	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°	1530.6	26.5
0°-40°	2503.1	43.3
0°-60°	4452.6	77.1
0°-90°	5775.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5775.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1979	1979	1979	1979	1979	
5°	1964	1968	1975	1973	1970	187
15°	1884	1891	1903	1910	1906	532
25°	1723	1734	1754	1772	1766	794
35°	1508	1528	1557	1585	1584	943
45°	1256	1283	1320	1357	1363	969
55°	974	1002	1048	1093	1102	869
65°	659	693	746	796	818	651
75°	335	374	428	479	511	356
85°	61	90	130	144	161	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1978.9	1978.9	1978.9	1978.9	1978.9
2.5°	1971.5	1976.4	1982.5	1972.7	1967.9
5°	1964.2	1967.9	1975.2	1972.7	1970.3
7.5°	1950.7	1953.2	1963.0	1963.0	1960.5
10°	1934.9	1939.7	1948.3	1947.1	1941.0
12.5°	1914.1	1917.7	1927.5	1927.5	1923.9
15°	1883.5	1890.9	1903.1	1910.4	1905.5
17.5°	1851.7	1859.1	1875.0	1882.3	1879.9
20°	1816.3	1822.4	1838.3	1849.3	1844.4
22.5°	1772.3	1779.6	1798.0	1810.2	1805.3
25°	1723.4	1734.4	1754.0	1772.3	1766.2
27.5°	1674.5	1686.7	1711.2	1729.5	1727.1
30°	1620.7	1636.6	1662.3	1685.5	1680.6
32.5°	1565.7	1584.1	1611.0	1635.4	1634.2
35°	1508.3	1527.8	1557.2	1585.3	1584.1
37.5°	1447.2	1470.4	1501.0	1531.5	1532.7
40°	1387.3	1409.3	1443.5	1476.5	1477.7
42.5°	1323.7	1346.9	1383.6	1417.8	1419.1
45°	1256.5	1283.4	1320.1	1356.7	1362.8
47.5°	1188.1	1216.2	1254.1	1293.2	1300.5
50°	1117.2	1146.5	1186.8	1228.4	1235.7
52.5°	1045.0	1075.6	1117.2	1158.7	1169.7
55°	974.2	1002.3	1047.5	1092.7	1102.5
57.5°	899.6	925.3	974.2	1021.8	1034.0
60°	817.7	849.5	899.6	947.3	966.8
62.5°	738.3	772.5	823.8	871.5	893.5
65°	658.8	693.0	745.6	795.7	817.7
67.5°	578.1	613.6	669.8	717.5	741.9
70°	497.5	532.9	586.7	638.0	663.7
72.5°	416.8	454.7	507.2	559.8	585.5
75°	334.9	374.0	427.8	479.1	510.9
77.5°	257.9	295.8	349.6	402.1	429.0
80°	184.6	222.5	275.0	327.6	355.7
82.5°	117.3	152.8	204.1	248.1	273.8
85°	61.1	90.4	129.6	144.2	161.3
87.5°	18.3	35.4	50.1	56.2	69.7
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	18.60	20.26	18.96	20.57	20.89
	3H	19.61	21.12	19.99	21.45	21.81	20.69	22.20	21.07	22.53	22.89
	4H	20.24	21.66	20.64	22.01	22.38	21.58	23.00	21.97	23.35	23.72
	6H	20.65	21.97	21.06	22.33	22.72	22.34	23.66	22.75	24.03	24.42
	8H	20.76	22.02	21.18	22.41	22.81	22.66	23.92	23.08	24.31	24.70
	12H	20.81	22.02	21.24	22.40	22.83	22.87	24.08	23.30	24.46	24.89
4H	2H	18.62	20.04	19.02	20.39	20.77	19.20	20.62	19.60	20.97	21.34
	3H	20.61	21.81	21.02	22.21	22.61	21.53	22.73	21.94	23.12	23.52
	4H	21.37	22.45	21.80	22.87	23.30	22.56	23.65	22.99	24.06	24.50
	6H	21.90	22.86	22.36	23.30	23.75	23.49	24.45	23.95	24.89	25.34
	8H	22.05	22.94	22.51	23.39	23.85	23.88	24.77	24.34	25.21	25.68
	12H	22.14	22.94	22.62	23.42	23.88	24.15	24.96	24.63	25.43	25.90
8H	4H	21.82	22.71	22.28	23.15	23.62	22.86	23.76	23.32	24.20	24.66
	6H	22.50	23.24	22.99	23.73	24.20	23.95	24.69	24.44	25.18	25.65
	8H	22.72	23.39	23.23	23.89	24.38	24.44	25.10	24.94	25.61	26.09
	12H	22.87	23.46	23.37	23.95	24.51	24.81	25.40	25.32	25.89	26.45
12H	4H	21.90	22.71	22.38	23.18	23.65	22.89	23.69	23.37	24.17	24.64
	6H	22.63	23.30	23.13	23.80	24.28	24.00	24.67	24.51	25.17	25.66
	8H	22.92	23.51	23.42	24.00	24.56	24.55	25.15	25.06	25.64	26.19