

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: P1587815

Luminaire Tested: 22CZSP-SB-60HE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587815
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-L835
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 6700 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

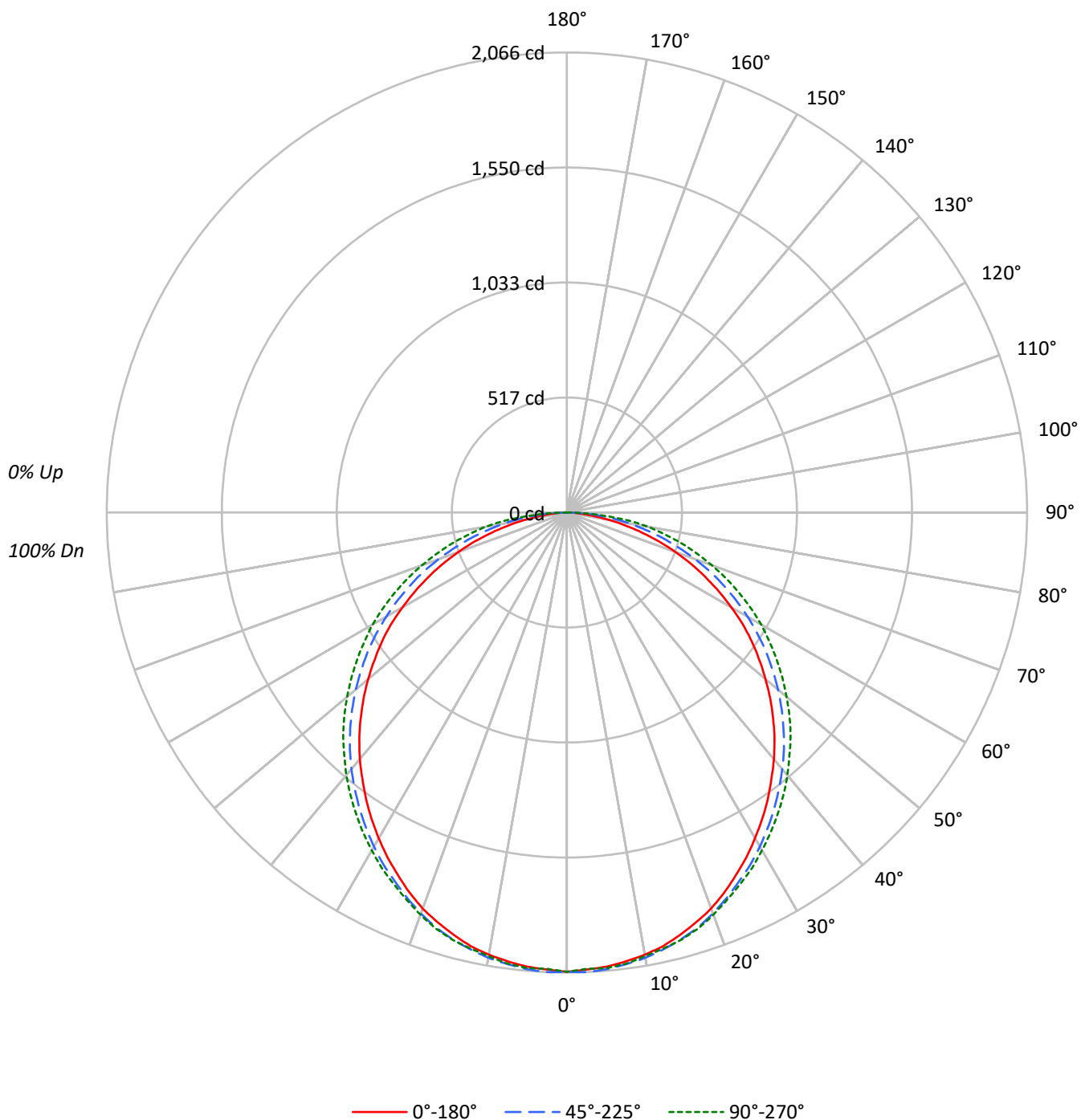
Lumens per Lamp: N/A
Luminaire Lumens: 6019.0 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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			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	68
3	89	79	70	63	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°	6458	6458	6458
5°	6435	6471	6455
10°	6412	6457	6432
15°	6364	6430	6438
20°	6308	6385	6406
25°	6206	6316	6360
30°	6108	6264	6333
35°	6009	6204	6311
40°	5910	6150	6296
45°	5799	6093	6290
50°	5672	6026	6274
55°	5543	5960	6273
60°	5337	5872	6311
65°	5087	5758	6314
70°	4747	5599	6333
75°	4224	5395	6442
80°	3469	5168	6685
85°	2289	4850	6043

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6847 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.1	3.2
10°-20°	558.4	9.3
20°-30°	841.7	14.0
30°-40°	1013.6	16.8
40°-50°	1059.0	17.6
50°-60°	972.9	16.2
60°-70°	766.1	12.7
70°-80°	469.7	7.8
80°-90°	142.4	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°	1595.2	26.5
0°-40°	2608.9	43.3
0°-60°	4640.7	77.1
0°-90°	6019.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6019.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2062	2062	2062	2062	2062	
5°	2047	2051	2059	2056	2054	194
15°	1963	1971	1984	1991	1986	554
25°	1796	1808	1828	1847	1841	828
35°	1572	1592	1623	1652	1651	983
45°	1310	1338	1376	1414	1420	1010
55°	1015	1045	1092	1139	1149	906
65°	687	722	777	829	852	679
75°	349	390	446	499	532	371
85°	64	94	135	150	168	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2062.5	2062.5	2062.5	2062.5	2062.5
2.5°	2054.8	2059.9	2066.3	2056.1	2051.0
5°	2047.2	2051.0	2058.6	2056.1	2053.6
7.5°	2033.2	2035.7	2045.9	2045.9	2043.4
10°	2016.6	2021.7	2030.6	2029.3	2023.0
12.5°	1995.0	1998.8	2009.0	2009.0	2005.1
15°	1963.1	1970.7	1983.5	1991.1	1986.0
17.5°	1930.0	1937.6	1954.2	1961.8	1959.3
20°	1893.0	1899.4	1916.0	1927.4	1922.3
22.5°	1847.2	1854.8	1873.9	1886.7	1881.6
25°	1796.2	1807.7	1828.1	1847.2	1840.8
27.5°	1745.3	1758.0	1783.5	1802.6	1800.0
30°	1689.2	1705.8	1732.5	1756.7	1751.6
32.5°	1631.9	1651.0	1679.0	1704.5	1703.2
35°	1572.0	1592.4	1623.0	1652.3	1651.0
37.5°	1508.3	1532.5	1564.4	1596.2	1597.5
40°	1445.9	1468.8	1504.5	1538.9	1540.2
42.5°	1379.7	1403.9	1442.1	1477.7	1479.0
45°	1309.6	1337.6	1375.8	1414.0	1420.4
47.5°	1238.2	1267.5	1307.0	1347.8	1355.4
50°	1164.4	1194.9	1237.0	1280.3	1287.9
52.5°	1089.2	1121.0	1164.4	1207.7	1219.1
55°	1015.3	1044.6	1091.7	1138.9	1149.1
57.5°	937.6	964.4	1015.3	1065.0	1077.7
60°	852.2	885.4	937.6	987.3	1007.7
62.5°	769.4	805.1	858.6	908.3	931.2
65°	686.6	722.3	777.1	829.3	852.2
67.5°	602.6	639.5	698.1	747.8	773.3
70°	518.5	555.4	611.5	665.0	691.7
72.5°	434.4	473.9	528.7	583.5	610.2
75°	349.1	389.8	445.9	499.4	532.5
77.5°	268.8	308.3	364.3	419.1	447.1
80°	192.4	231.9	286.6	341.4	370.7
82.5°	122.3	159.2	212.7	258.6	285.4
85°	63.7	94.3	135.0	150.3	168.2
87.5°	19.1	36.9	52.2	58.6	72.6
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	17.99	19.66	18.36	19.97	20.29	18.74	20.40	19.11	20.72	21.03
	3H	19.76	21.26	20.13	21.59	21.95	20.84	22.34	21.21	22.67	23.03
	4H	20.38	21.80	20.78	22.15	22.53	21.72	23.14	22.12	23.49	23.87
	6H	20.79	22.12	21.20	22.48	22.87	22.49	23.81	22.90	24.17	24.56
	8H	20.90	22.16	21.32	22.55	22.95	22.80	24.06	23.22	24.45	24.85
	12H	20.95	22.16	21.38	22.54	22.97	23.01	24.22	23.44	24.60	25.03
4H	2H	18.76	20.19	19.16	20.53	20.91	19.34	20.77	19.74	21.11	21.49
	3H	20.76	21.96	21.17	22.35	22.75	21.67	22.87	22.08	23.27	23.67
	4H	21.51	22.60	21.94	23.01	23.45	22.71	23.79	23.14	24.21	24.64
	6H	22.05	23.00	22.50	23.44	23.89	23.64	24.59	24.09	25.03	25.48
	8H	22.20	23.09	22.65	23.53	23.99	24.02	24.91	24.48	25.36	25.82
	12H	22.28	23.09	22.76	23.56	24.03	24.30	25.10	24.78	25.58	26.04
8H	4H	21.96	22.86	22.42	23.30	23.76	23.01	23.90	23.47	24.34	24.81
	6H	22.64	23.39	23.13	23.87	24.35	24.09	24.84	24.58	25.32	25.80
	8H	22.86	23.53	23.37	24.04	24.52	24.58	25.25	25.09	25.75	26.24
	12H	23.01	23.60	23.51	24.09	24.65	24.95	25.55	25.46	26.04	26.59
12H	4H	22.05	22.85	22.53	23.33	23.79	23.04	23.84	23.51	24.31	24.78
	6H	22.77	23.44	23.28	23.94	24.43	24.14	24.81	24.65	25.32	25.80
	8H	23.06	23.65	23.57	24.14	24.70	24.70	25.29	25.20	25.78	26.34