

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: P1587794

Luminaire Tested: 22CZSP-SB-57HE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-57HE-L835-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 5700 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

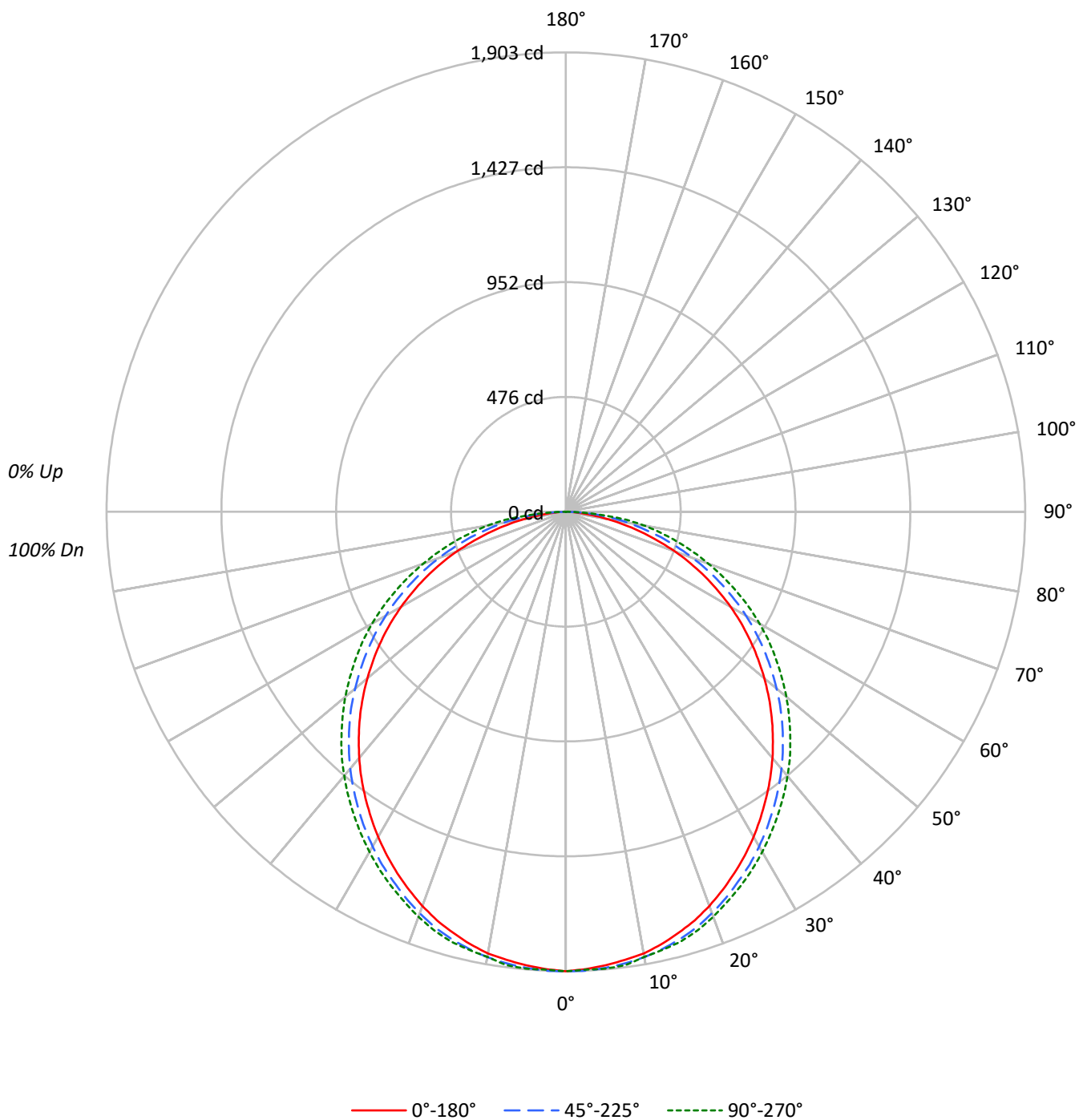
Lumens per Lamp: N/A
Luminaire Lumens: 5537.0 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 38.9
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	94	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	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5960	5960	5960
5°	5927	5961	5972
10°	5908	5958	5954
15°	5854	5939	5974
20°	5791	5898	5950
25°	5708	5840	5914
30°	5625	5788	5883
35°	5532	5732	5856
40°	5444	5682	5838
45°	5343	5623	5823
50°	5228	5553	5808
55°	5098	5482	5801
60°	4938	5401	5804
65°	4713	5287	5772
70°	4406	5125	5758
75°	3905	4929	5778
80°	3179	4683	5949
85°	2055	4322	5134

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6029 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	3.3
10°-20°	515.8	9.3
20°-30°	777.7	14.0
30°-40°	935.8	16.9
40°-50°	976.1	17.6
50°-60°	894.7	16.2
60°-70°	702.6	12.7
70°-80°	427.6	7.7
80°-90°	126.5	2.3
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°	1473.7	26.6
0°-40°	2409.5	43.5
0°-60°	4280.3	77.3
0°-90°	5537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5537.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1903	1903	1903	1903	1903	
5°	1886	1898	1896	1894	1900	179
15°	1806	1824	1832	1834	1843	509
25°	1652	1675	1690	1701	1712	761
35°	1447	1470	1500	1521	1532	906
45°	1207	1232	1270	1300	1315	930
55°	934	958	1004	1045	1062	834
65°	636	660	714	761	779	629
75°	323	353	407	456	478	342
85°	57	81	120	135	143	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1903.4	1903.4	1903.4	1903.4	1903.4
2.5°	1896.3	1905.8	1903.4	1895.1	1898.7
5°	1885.6	1897.5	1896.3	1893.9	1899.9
7.5°	1872.5	1885.6	1886.8	1886.8	1893.9
10°	1858.2	1871.3	1873.7	1870.1	1872.5
12.5°	1834.3	1849.8	1854.6	1854.6	1858.2
15°	1805.8	1823.6	1832.0	1834.3	1842.7
17.5°	1774.8	1793.8	1804.6	1810.5	1817.7
20°	1737.9	1758.1	1770.0	1777.2	1785.5
22.5°	1696.2	1718.8	1731.9	1739.1	1748.6
25°	1652.1	1674.7	1690.2	1700.9	1711.7
27.5°	1605.6	1627.1	1648.5	1661.6	1671.2
30°	1555.6	1578.2	1600.9	1617.6	1627.1
32.5°	1502.0	1525.8	1552.0	1569.9	1580.6
35°	1447.2	1469.9	1499.6	1521.1	1531.8
37.5°	1391.2	1415.1	1446.0	1468.7	1481.8
40°	1331.7	1356.7	1390.1	1415.1	1428.2
42.5°	1269.7	1293.6	1330.5	1359.1	1374.6
45°	1206.6	1231.6	1269.7	1299.5	1315.0
47.5°	1141.1	1164.9	1206.6	1241.2	1254.3
50°	1073.2	1095.8	1139.9	1176.8	1192.3
52.5°	1004.1	1027.9	1072.0	1111.3	1128.0
55°	933.8	957.7	1004.1	1044.6	1062.5
57.5°	862.4	886.2	933.8	975.5	997.0
60°	788.5	812.4	862.4	905.3	926.7
62.5°	712.3	737.3	788.5	832.6	855.2
65°	636.1	659.9	713.5	761.1	779.0
67.5°	559.8	583.7	636.1	683.7	705.2
70°	481.2	508.6	559.8	609.9	628.9
72.5°	399.0	430.0	481.2	533.6	552.7
75°	322.8	352.6	407.4	456.2	477.6
77.5°	247.8	279.9	331.1	381.2	402.6
80°	176.3	207.3	259.7	307.3	329.9
82.5°	112.0	139.4	191.8	234.7	251.3
85°	57.2	81.0	120.3	134.6	142.9
87.5°	16.7	28.6	42.9	53.6	59.6
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	17.70	19.36	18.07	19.68	19.99	18.44	20.10	18.80	20.41	20.72
	3H	19.47	20.98	19.85	21.30	21.66	20.52	22.02	20.89	22.35	22.71
	4H	20.09	21.51	20.49	21.86	22.23	21.38	22.80	21.78	23.15	23.52
	6H	20.50	21.82	20.91	22.18	22.57	22.13	23.44	22.54	23.81	24.20
	8H	20.60	21.86	21.03	22.25	22.65	22.42	23.68	22.84	24.07	24.47
	12H	20.65	21.86	21.08	22.24	22.67	22.61	23.82	23.04	24.20	24.63
4H	2H	18.47	19.89	18.87	20.24	20.61	19.04	20.46	19.44	20.81	21.18
	3H	20.46	21.66	20.87	22.05	22.45	21.35	22.55	21.76	22.95	23.35
	4H	21.20	22.29	21.63	22.70	23.13	22.37	23.46	22.80	23.87	24.30
	6H	21.73	22.68	22.19	23.12	23.58	23.28	24.23	23.73	24.67	25.12
	8H	21.87	22.76	22.33	23.21	23.67	23.65	24.53	24.10	24.98	25.44
	12H	21.96	22.76	22.43	23.23	23.70	23.90	24.70	24.38	25.17	25.64
8H	4H	21.65	22.54	22.11	22.98	23.44	22.67	23.56	23.13	24.00	24.47
	6H	22.31	23.05	22.80	23.54	24.02	23.73	24.47	24.22	24.96	25.43
	8H	22.52	23.19	23.03	23.69	24.18	24.20	24.87	24.71	25.37	25.86
	12H	22.66	23.25	23.16	23.74	24.30	24.55	25.14	25.06	25.63	26.19
12H	4H	21.73	22.53	22.21	23.01	23.47	22.70	23.50	23.18	23.97	24.44
	6H	22.44	23.10	22.94	23.61	24.09	23.78	24.45	24.29	24.95	25.44
	8H	22.71	23.30	23.22	23.79	24.35	24.32	24.91	24.82	25.40	25.95