

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: P1587796

Luminaire Tested: 22CZSP-SB-57HE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587796
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-L840-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 5700 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

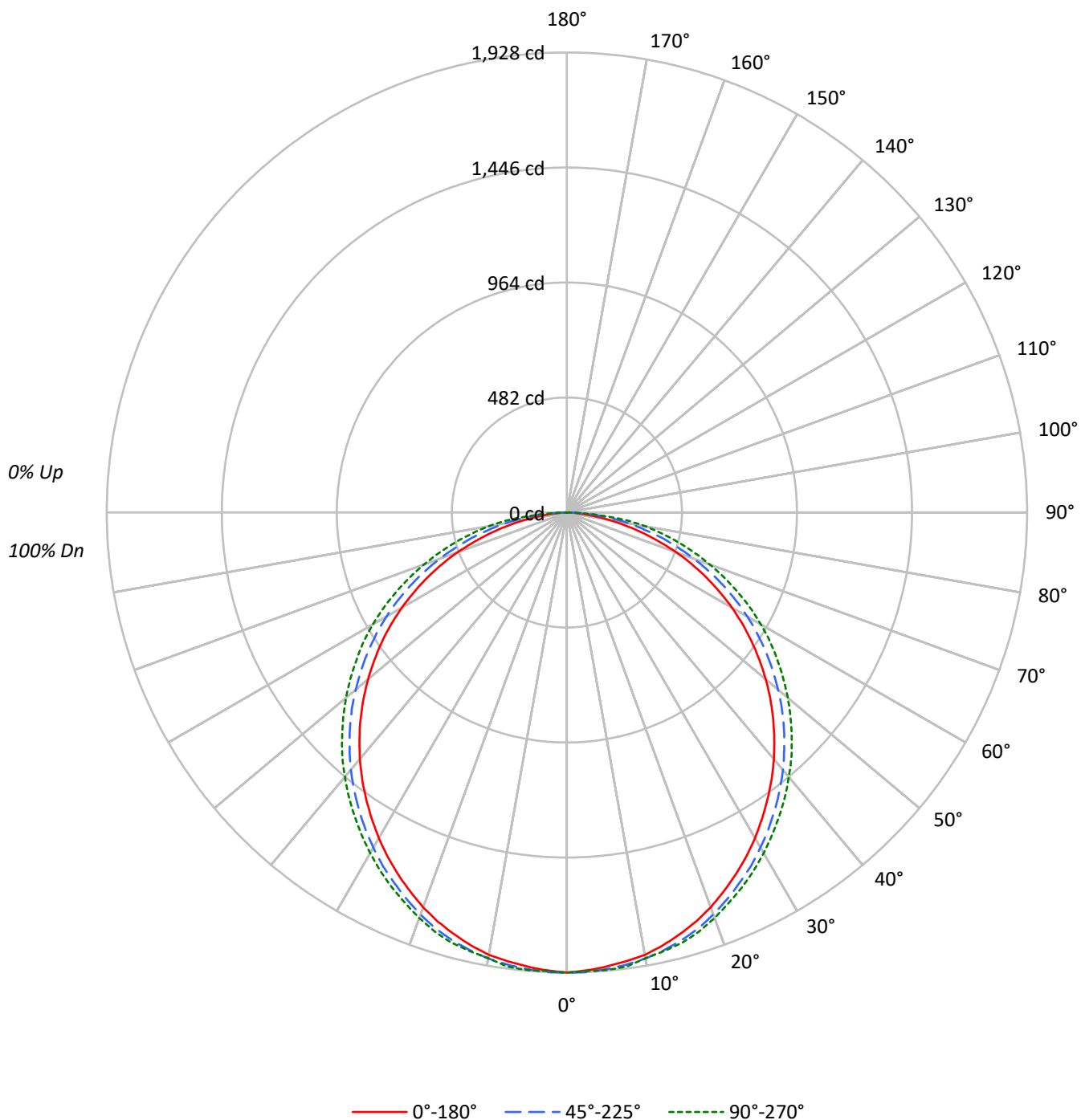
Lumens per Lamp: N/A
Luminaire Lumens: 5609.0 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	6038	6038	6038
5°	6004	6038	6050
10°	5985	6035	6031
15°	5930	6016	6051
20°	5866	5975	6027
25°	5782	5916	5991
30°	5698	5864	5959
35°	5604	5807	5932
40°	5514	5756	5914
45°	5413	5696	5899
50°	5296	5625	5884
55°	5164	5553	5876
60°	5003	5471	5879
65°	4774	5355	5847
70°	4463	5192	5833
75°	3956	4993	5854
80°	3221	4743	6026
85°	2080	4380	5202

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6108 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.5	3.3
10°-20°	522.5	9.3
20°-30°	787.8	14.0
30°-40°	948.0	16.9
40°-50°	988.8	17.6
50°-60°	906.4	16.2
60°-70°	711.7	12.7
70°-80°	433.2	7.7
80°-90°	128.1	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°	1492.8	26.6
0°-40°	2440.8	43.5
0°-60°	4336.0	77.3
0°-90°	5609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5609.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1928	1928	1928	1928	1928	
5°	1910	1922	1921	1918	1925	181
15°	1829	1847	1856	1858	1867	516
25°	1674	1696	1712	1723	1734	771
35°	1466	1489	1519	1541	1552	917
45°	1222	1248	1286	1316	1332	943
55°	946	970	1017	1058	1076	845
65°	644	668	723	771	789	637
75°	327	357	413	462	484	347
85°	58	82	122	136	145	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1928.2	1928.2	1928.2	1928.2	1928.2
2.5°	1920.9	1930.6	1928.2	1919.7	1923.4
5°	1910.1	1922.1	1920.9	1918.5	1924.6
7.5°	1896.8	1910.1	1911.3	1911.3	1918.5
10°	1882.3	1895.6	1898.0	1894.4	1896.8
12.5°	1858.2	1873.9	1878.7	1878.7	1882.3
15°	1829.2	1847.3	1855.8	1858.2	1866.6
17.5°	1797.9	1817.2	1828.0	1834.1	1841.3
20°	1760.5	1781.0	1793.0	1800.3	1808.7
22.5°	1718.2	1741.2	1754.4	1761.7	1771.3
25°	1673.6	1696.5	1712.2	1723.1	1733.9
27.5°	1626.5	1648.2	1670.0	1683.2	1692.9
30°	1575.8	1598.8	1621.7	1638.6	1648.2
32.5°	1521.5	1545.7	1572.2	1590.3	1601.2
35°	1466.0	1489.0	1519.1	1540.9	1551.7
37.5°	1409.3	1433.5	1464.8	1487.8	1501.0
40°	1349.0	1374.3	1408.1	1433.5	1446.7
42.5°	1286.3	1310.4	1347.8	1376.8	1392.4
45°	1222.3	1247.6	1286.3	1316.4	1332.1
47.5°	1155.9	1180.1	1222.3	1257.3	1270.6
50°	1087.2	1110.1	1154.7	1192.1	1207.8
52.5°	1017.2	1041.3	1086.0	1125.8	1142.7
55°	946.0	970.1	1017.2	1058.2	1076.3
57.5°	873.6	897.7	946.0	988.2	1009.9
60°	798.8	822.9	873.6	917.0	938.8
62.5°	721.6	746.9	798.8	843.4	866.4
65°	644.3	668.5	722.8	771.0	789.1
67.5°	567.1	591.2	644.3	692.6	714.3
70°	487.5	515.2	567.1	617.8	637.1
72.5°	404.2	435.6	487.5	540.6	559.9
75°	327.0	357.2	412.7	462.1	483.9
77.5°	251.0	283.6	335.4	386.1	407.8
80°	178.6	210.0	263.0	311.3	334.2
82.5°	113.4	141.2	194.3	237.7	254.6
85°	57.9	82.1	121.9	136.3	144.8
87.5°	16.9	29.0	43.4	54.3	60.3
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	17.75	19.41	18.11	19.72	20.03	18.48	20.14	18.85	20.46	20.77
	3H	19.51	21.02	19.89	21.35	21.71	20.56	22.07	20.94	22.39	22.75
	4H	20.13	21.55	20.53	21.90	22.28	21.43	22.85	21.82	23.19	23.57
	6H	20.54	21.86	20.95	22.22	22.61	22.17	23.49	22.58	23.85	24.24
	8H	20.65	21.91	21.07	22.29	22.69	22.47	23.73	22.89	24.11	24.51
	12H	20.69	21.90	21.12	22.28	22.71	22.66	23.87	23.09	24.25	24.68
4H	2H	18.51	19.93	18.91	20.28	20.66	19.09	20.51	19.48	20.85	21.23
	3H	20.51	21.70	20.91	22.10	22.50	21.40	22.59	21.81	22.99	23.39
	4H	21.25	22.33	21.68	22.74	23.18	22.42	23.50	22.85	23.91	24.35
	6H	21.78	22.73	22.23	23.17	23.62	23.32	24.27	23.78	24.71	25.17
	8H	21.92	22.81	22.38	23.25	23.71	23.69	24.58	24.15	25.02	25.48
	12H	22.00	22.80	22.48	23.28	23.74	23.94	24.75	24.42	25.22	25.69
8H	4H	21.69	22.58	22.15	23.03	23.49	22.72	23.60	23.17	24.05	24.51
	6H	22.36	23.10	22.85	23.59	24.06	23.77	24.51	24.26	25.00	25.48
	8H	22.57	23.23	23.07	23.74	24.22	24.24	24.91	24.75	25.42	25.90
	12H	22.70	23.29	23.21	23.78	24.34	24.60	25.19	25.10	25.68	26.23
12H	4H	21.77	22.58	22.25	23.05	23.52	22.74	23.54	23.22	24.02	24.49
	6H	22.48	23.15	22.99	23.65	24.14	23.82	24.49	24.33	25.00	25.48
	8H	22.76	23.35	23.26	23.84	24.40	24.36	24.95	24.87	25.44	26.00