

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: P1586764

Luminaire Tested: 22CZSP-A-57HE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-A-57HE-L935-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 5700 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

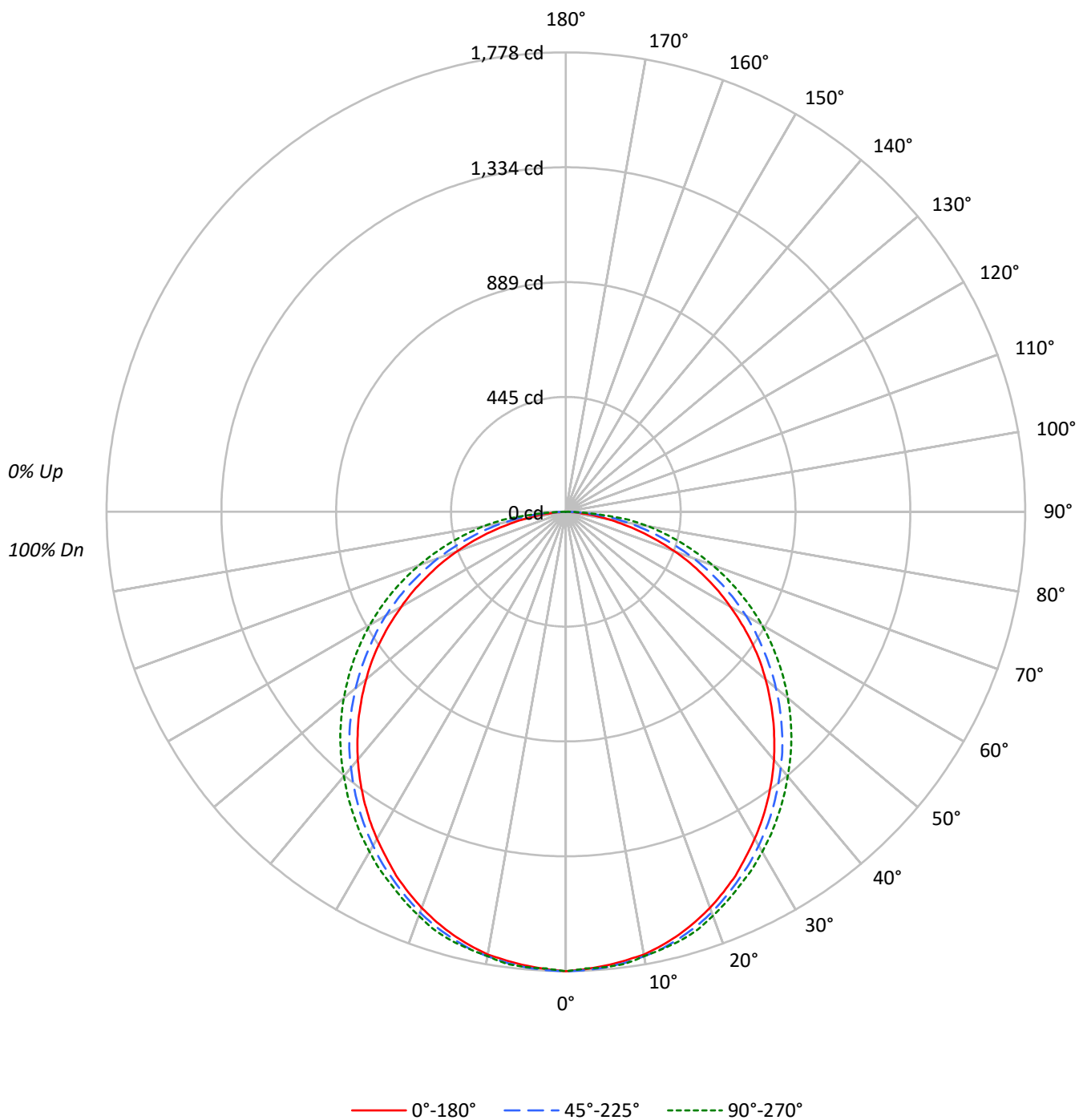
Lumens per Lamp: N/A
Luminaire Lumens: 5192.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	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	69
3	89	79	70	64	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°	5569	5569	5569
5°	5544	5565	5561
10°	5532	5557	5553
15°	5492	5536	5569
20°	5436	5501	5547
25°	5369	5444	5511
30°	5285	5396	5495
35°	5209	5344	5479
40°	5123	5290	5463
45°	5025	5237	5469
50°	4917	5173	5467
55°	4789	5100	5473
60°	4609	5045	5487
65°	4398	4946	5504
70°	4099	4808	5528
75°	3653	4618	5582
80°	3020	4396	5855
85°	1965	3970	5116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6041 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	3.2
10°-20°	481.6	9.3
20°-30°	726.3	14.0
30°-40°	874.8	16.8
40°-50°	913.6	17.6
50°-60°	839.1	16.2
60°-70°	660.9	12.7
70°-80°	405.4	7.8
80°-90°	122.0	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°	1376.1	26.5
0°-40°	2251.0	43.4
0°-60°	4003.7	77.1
0°-90°	5192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1778	1778	1778	1778	1778	
5°	1764	1766	1770	1776	1769	168
15°	1694	1698	1708	1718	1718	478
25°	1554	1557	1576	1595	1595	715
35°	1363	1369	1398	1426	1433	852
45°	1135	1147	1183	1224	1235	875
55°	877	893	934	987	1003	783
65°	594	614	668	723	743	587
75°	302	326	382	442	461	320
85°	55	75	110	140	142	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1778.4	1778.4	1778.4	1778.4	1778.4
2.5°	1771.6	1775.0	1776.1	1777.3	1769.3
5°	1763.6	1765.9	1770.4	1776.1	1769.3
7.5°	1752.2	1754.5	1760.2	1768.1	1764.7
10°	1739.7	1740.8	1747.6	1753.3	1746.5
12.5°	1719.2	1722.6	1730.5	1735.1	1732.8
15°	1694.1	1697.5	1707.8	1718.0	1718.0
17.5°	1664.5	1669.0	1681.6	1695.2	1696.4
20°	1631.4	1634.9	1650.8	1664.5	1664.5
22.5°	1593.8	1598.4	1614.3	1629.2	1631.4
25°	1554.0	1557.4	1575.6	1595.0	1595.0
27.5°	1507.3	1514.1	1536.9	1556.2	1560.8
30°	1461.7	1467.4	1492.4	1516.4	1519.8
32.5°	1413.8	1420.7	1446.9	1473.1	1478.8
35°	1362.6	1369.4	1397.9	1426.4	1433.2
37.5°	1309.0	1317.0	1346.6	1379.7	1386.5
40°	1253.2	1262.3	1294.2	1329.5	1336.4
42.5°	1194.0	1206.5	1240.7	1277.1	1287.4
45°	1134.7	1147.2	1182.6	1223.6	1235.0
47.5°	1072.1	1086.9	1123.3	1166.6	1179.1
50°	1009.4	1024.2	1061.8	1108.5	1122.2
52.5°	945.6	960.4	999.1	1048.1	1062.9
55°	877.2	893.2	934.2	986.6	1002.6
57.5°	806.6	827.1	870.4	923.9	939.9
60°	736.0	756.5	805.5	857.9	876.1
62.5°	666.5	685.8	736.0	791.8	811.2
65°	593.6	614.1	667.6	723.4	742.8
67.5°	521.8	542.3	595.8	653.9	674.4
70°	447.7	470.5	525.2	583.3	603.8
72.5°	373.7	397.6	453.4	512.7	532.0
75°	301.9	325.8	381.7	442.0	461.4
77.5°	231.3	257.5	312.2	373.7	391.9
80°	167.5	192.5	243.8	304.2	324.7
82.5°	107.1	128.7	180.0	237.0	251.8
85°	54.7	75.2	110.5	140.1	142.4
87.5°	17.1	23.9	36.5	54.7	55.8
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	17.44	19.11	17.81	19.42	19.73	18.27	19.94	18.64	20.25	20.56
	3H	19.20	20.71	19.58	21.03	21.39	20.39	21.90	20.77	22.22	22.58
	4H	19.82	21.24	20.22	21.59	21.96	21.28	22.70	21.68	23.05	23.42
	6H	20.23	21.55	20.64	21.91	22.30	22.06	23.38	22.47	23.74	24.14
	8H	20.34	21.60	20.76	21.99	22.39	22.38	23.64	22.80	24.03	24.43
	12H	20.39	21.60	20.82	21.98	22.41	22.59	23.80	23.02	24.18	24.61
4H	2H	18.22	19.64	18.61	19.99	20.36	18.86	20.28	19.26	20.63	21.01
	3H	20.19	21.39	20.60	21.79	22.19	21.22	22.42	21.63	22.81	23.21
	4H	20.93	22.02	21.36	22.43	22.86	22.27	23.36	22.70	23.77	24.20
	6H	21.46	22.41	21.91	22.85	23.30	23.22	24.17	23.67	24.61	25.07
	8H	21.60	22.50	22.06	22.94	23.40	23.62	24.51	24.08	24.95	25.42
	12H	21.69	22.49	22.17	22.97	23.43	23.90	24.70	24.37	25.17	25.64
8H	4H	21.39	22.28	21.85	22.72	23.19	22.56	23.45	23.02	23.89	24.36
	6H	22.05	22.79	22.54	23.28	23.75	23.67	24.41	24.16	24.90	25.37
	8H	22.26	22.93	22.77	23.43	23.92	24.18	24.85	24.69	25.36	25.84
	12H	22.40	22.99	22.91	23.48	24.04	24.57	25.16	25.07	25.65	26.21
12H	4H	21.48	22.28	21.96	22.76	23.22	22.58	23.39	23.06	23.86	24.33
	6H	22.18	22.85	22.69	23.36	23.84	23.72	24.39	24.22	24.89	25.38
	8H	22.46	23.05	22.97	23.54	24.10	24.30	24.89	24.80	25.38	25.94