

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: P1586529

Luminaire Tested: 22CZSP-57HE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-668-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-57HE-L945
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 5700 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

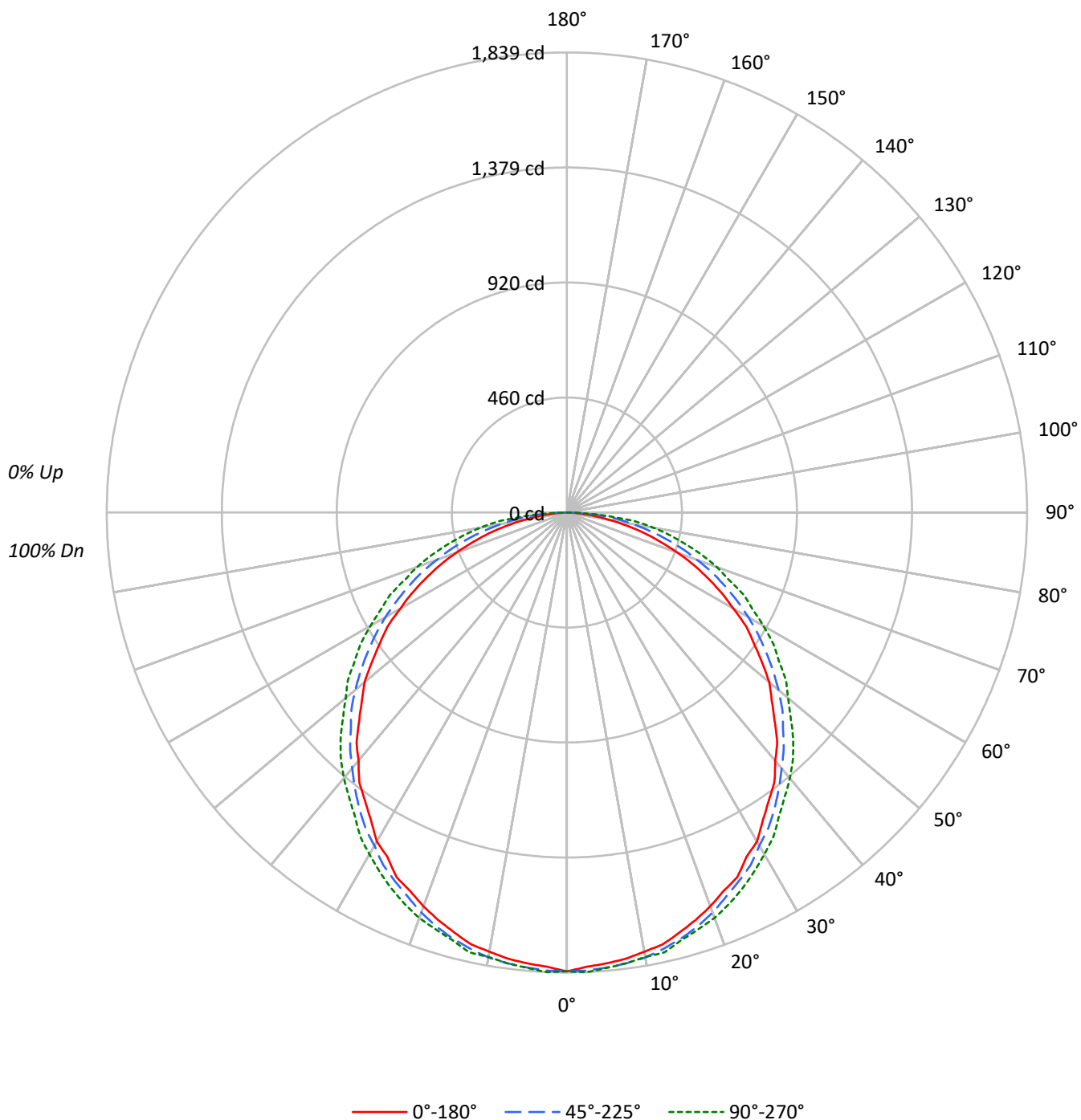
Lumens per Lamp: N/A
Luminaire Lumens: 5402.0 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45		56	50	44		55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35		46	40	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5743	5743	5743
5°	5687	5739	5744
10°	5669	5742	5737
15°	5635	5715	5737
20°	5583	5671	5748
25°	5560	5617	5732
30°	5490	5562	5705
35°	5375	5526	5653
40°	5295	5457	5667
45°	5195	5407	5663
50°	5143	5377	5618
55°	4979	5304	5647
60°	4812	5246	5681
65°	4603	5167	5779
70°	4327	5068	5839
75°	3898	4977	5957
80°	3188	4887	6346
85°	2077	4868	5935

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6660 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.4	3.2
10°-20°	496.4	9.2
20°-30°	750.2	13.9
30°-40°	904.8	16.8
40°-50°	945.9	17.5
50°-60°	872.3	16.1
60°-70°	691.2	12.8
70°-80°	432.1	8.0
80°-90°	135.6	2.5
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°	1420.0	26.3
0°-40°	2324.8	43.0
0°-60°	4143.1	76.7
0°-90°	5402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5402.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1834	1834	1834	1834	1834	
5°	1809	1818	1826	1832	1827	172
15°	1738	1746	1763	1774	1770	490
25°	1609	1604	1626	1649	1659	738
35°	1406	1423	1446	1470	1479	882
45°	1173	1190	1221	1252	1279	908
55°	912	934	972	1024	1034	818
65°	621	648	697	752	780	615
75°	322	349	411	469	492	339
85°	58	83	136	159	165	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1834.0	1834.0	1834.0	1834.0	1834.0
2.5°	1817.5	1825.8	1832.4	1830.7	1839.0
5°	1809.2	1817.5	1825.8	1832.4	1827.4
7.5°	1799.3	1807.6	1817.5	1827.4	1817.5
10°	1782.8	1787.8	1805.9	1807.6	1804.3
12.5°	1767.9	1772.9	1786.1	1797.7	1801.0
15°	1738.2	1746.5	1763.0	1774.5	1769.6
17.5°	1708.5	1720.0	1734.9	1746.5	1746.5
20°	1675.4	1683.7	1701.8	1710.1	1725.0
22.5°	1637.4	1647.3	1662.2	1685.3	1693.6
25°	1609.3	1604.4	1625.8	1649.0	1658.9
27.5°	1553.1	1559.8	1589.5	1611.0	1619.2
30°	1518.4	1521.7	1538.3	1568.0	1577.9
32.5°	1457.3	1467.2	1497.0	1518.4	1536.6
35°	1406.1	1422.6	1445.7	1470.5	1478.8
37.5°	1361.5	1364.8	1391.2	1424.3	1430.9
40°	1295.4	1315.2	1335.0	1376.3	1386.3
42.5°	1244.2	1254.1	1282.2	1321.8	1336.7
45°	1173.1	1189.6	1221.0	1252.4	1278.9
47.5°	1110.3	1126.9	1168.2	1207.8	1212.8
50°	1055.8	1062.4	1103.7	1148.3	1153.3
52.5°	981.5	998.0	1037.6	1087.2	1103.7
55°	912.1	933.5	971.5	1024.4	1034.3
57.5°	850.9	860.8	905.4	958.3	978.1
60°	768.3	796.4	837.7	888.9	907.1
62.5°	697.3	723.7	768.3	816.2	836.1
65°	621.3	647.7	697.3	751.8	779.9
67.5°	548.6	570.0	629.5	685.7	698.9
70°	472.6	497.3	553.5	611.3	637.8
72.5°	393.2	421.3	484.1	538.6	566.7
75°	322.2	348.6	411.4	469.2	492.4
77.5°	247.8	277.6	338.7	396.5	423.0
80°	176.8	206.5	271.0	328.8	351.9
82.5°	114.0	145.4	206.5	257.8	277.6
85°	57.8	82.6	135.5	158.6	165.2
87.5°	18.2	29.7	46.3	52.9	52.9
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	17.60	19.26	17.96	19.58	19.89	18.39	20.05	18.75	20.37	20.68
	3H	19.38	20.89	19.76	21.22	21.58	20.53	22.04	20.91	22.37	22.73
	4H	20.02	21.44	20.41	21.79	22.17	21.45	22.88	21.85	23.23	23.60
	6H	20.44	21.77	20.85	22.13	22.52	22.28	23.61	22.69	23.97	24.36
	8H	20.56	21.82	20.98	22.21	22.61	22.63	23.89	23.05	24.28	24.68
	12H	20.61	21.83	21.04	22.21	22.64	22.87	24.09	23.30	24.47	24.89
4H	2H	18.37	19.80	18.77	20.15	20.52	18.98	20.41	19.38	20.76	21.13
	3H	20.38	21.58	20.79	21.98	22.38	21.37	22.57	21.78	22.97	23.37
	4H	21.14	22.23	21.57	22.65	23.08	22.46	23.55	22.89	23.96	24.40
	6H	21.69	22.65	22.14	23.09	23.54	23.46	24.41	23.91	24.85	25.31
	8H	21.84	22.74	22.30	23.18	23.65	23.88	24.78	24.34	25.22	25.68
	12H	21.93	22.74	22.41	23.22	23.68	24.20	25.00	24.67	25.48	25.95
8H	4H	21.62	22.52	22.08	22.96	23.42	22.76	23.66	23.22	24.10	24.57
	6H	22.31	23.06	22.80	23.55	24.02	23.93	24.68	24.42	25.16	25.64
	8H	22.54	23.21	23.05	23.72	24.20	24.47	25.15	24.98	25.65	26.14
	12H	22.69	23.28	23.19	23.77	24.33	24.90	25.50	25.41	25.99	26.55
12H	4H	21.72	22.53	22.20	23.00	23.47	22.79	23.60	23.27	24.08	24.54
	6H	22.46	23.13	22.97	23.64	24.12	23.99	24.66	24.49	25.17	25.65
	8H	22.76	23.36	23.27	23.85	24.41	24.60	25.20	25.11	25.69	26.25