

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: P1586517

Luminaire Tested: 22CZSP-57HE-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586517
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-L840
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 5700 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

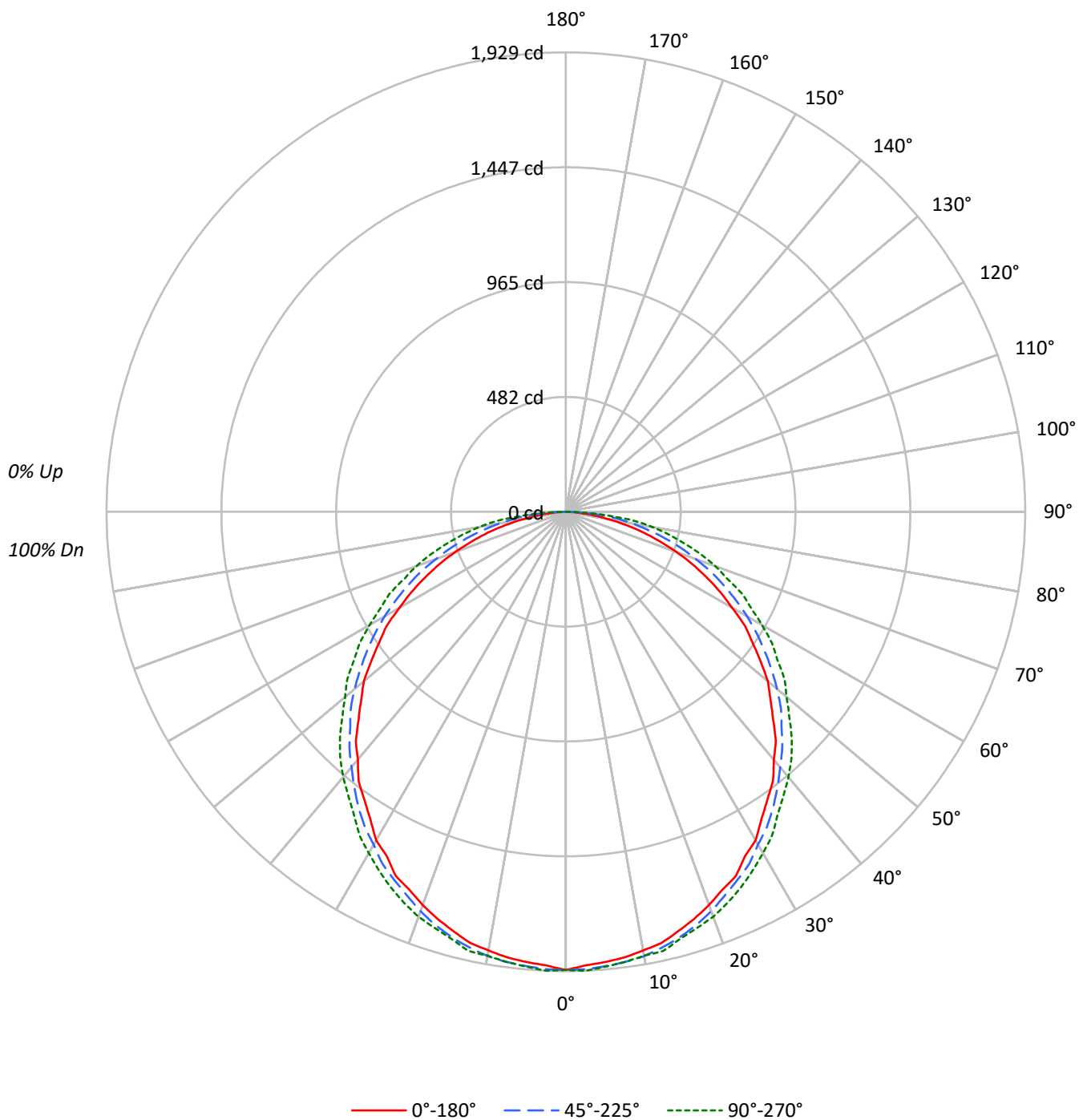
Lumens per Lamp: N/A
Luminaire Lumens: 5667.0 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61
5	75	62	53	46	73	61	52	46	58	51	45		56	50	44		55
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49
7	64	50	41	35	62	49	41	35	48	40	35		46	40	34		45
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41
9	56	42	34	28	54	41	34	28	40	33	28		39	33	28		38
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6025	6025	6025
5°	5966	6020	6026
10°	5947	6024	6018
15°	5911	5996	6018
20°	5857	5949	6030
25°	5833	5893	6013
30°	5760	5835	5985
35°	5639	5798	5930
40°	5555	5725	5945
45°	5450	5672	5941
50°	5396	5641	5894
55°	5223	5564	5924
60°	5048	5504	5960
65°	4829	5420	6062
70°	4538	5317	6126
75°	4089	5222	6249
80°	3345	5127	6658
85°	2181	5105	6226

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6986 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.9	3.2
10°-20°	520.8	9.2
20°-30°	787.0	13.9
30°-40°	949.2	16.8
40°-50°	992.3	17.5
50°-60°	915.1	16.1
60°-70°	725.1	12.8
70°-80°	453.4	8.0
80°-90°	142.2	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°	1489.7	26.3
0°-40°	2438.9	43.0
0°-60°	4346.3	76.7
0°-90°	5667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5667.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1924	1924	1924	1924	1924	
5°	1898	1907	1915	1922	1917	180
15°	1824	1832	1850	1862	1856	515
25°	1688	1683	1706	1730	1740	774
35°	1475	1492	1517	1543	1551	925
45°	1231	1248	1281	1314	1342	952
55°	957	979	1019	1075	1085	858
65°	652	680	732	789	818	646
75°	338	366	432	492	516	356
85°	61	87	142	166	173	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1924.0	1924.0	1924.0	1924.0	1924.0
2.5°	1906.7	1915.3	1922.3	1920.5	1929.2
5°	1898.0	1906.7	1915.3	1922.3	1917.1
7.5°	1887.6	1896.3	1906.7	1917.1	1906.7
10°	1870.3	1875.5	1894.5	1896.3	1892.8
12.5°	1854.7	1859.9	1873.7	1885.9	1889.3
15°	1823.5	1832.1	1849.5	1861.6	1856.4
17.5°	1792.3	1804.4	1820.0	1832.1	1832.1
20°	1757.6	1766.3	1785.3	1794.0	1809.6
22.5°	1717.7	1728.1	1743.7	1768.0	1776.7
25°	1688.3	1683.1	1705.6	1729.9	1740.3
27.5°	1629.3	1636.3	1667.5	1690.0	1698.7
30°	1592.9	1596.4	1613.7	1644.9	1655.3
32.5°	1528.8	1539.2	1570.4	1592.9	1612.0
35°	1475.1	1492.4	1516.7	1542.7	1551.3
37.5°	1428.3	1431.7	1459.5	1494.1	1501.1
40°	1358.9	1379.7	1400.5	1443.9	1454.3
42.5°	1305.2	1315.6	1345.1	1386.7	1402.3
45°	1230.7	1248.0	1280.9	1313.9	1341.6
47.5°	1164.8	1182.1	1225.5	1267.1	1272.3
50°	1107.6	1114.5	1157.9	1204.7	1209.9
52.5°	1029.6	1046.9	1088.5	1140.5	1157.9
55°	956.8	979.3	1019.2	1074.7	1085.1
57.5°	892.7	903.1	949.9	1005.3	1026.1
60°	806.0	835.5	878.8	932.5	951.6
62.5°	731.5	759.2	806.0	856.3	877.1
65°	651.7	679.5	731.5	788.7	818.1
67.5°	575.5	598.0	660.4	719.3	733.2
70°	495.7	521.7	580.7	641.3	669.1
72.5°	412.5	442.0	507.9	565.1	594.5
75°	338.0	365.7	431.6	492.3	516.5
77.5°	260.0	291.2	355.3	416.0	443.7
80°	185.5	216.7	284.3	344.9	369.2
82.5°	119.6	152.5	216.7	270.4	291.2
85°	60.7	86.7	142.1	166.4	173.3
87.5°	19.1	31.2	48.5	55.5	55.5
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	17.76	19.43	18.13	19.75	20.06	18.55	20.22	18.92	20.54	20.85
	3H	19.55	21.06	19.92	21.38	21.74	20.70	22.21	21.07	22.54	22.90
	4H	20.18	21.61	20.58	21.96	22.33	21.62	23.05	22.02	23.40	23.77
	6H	20.61	21.94	21.02	22.30	22.69	22.45	23.77	22.86	24.14	24.53
	8H	20.72	21.99	21.15	22.38	22.78	22.79	24.06	23.22	24.45	24.85
	12H	20.78	21.99	21.21	22.37	22.80	23.04	24.25	23.46	24.63	25.06
4H	2H	18.54	19.96	18.93	20.31	20.69	19.15	20.58	19.55	20.93	21.30
	3H	20.55	21.75	20.96	22.15	22.55	21.54	22.74	21.95	23.14	23.54
	4H	21.31	22.40	21.74	22.81	23.25	22.62	23.72	23.05	24.13	24.56
	6H	21.86	22.81	22.31	23.25	23.71	23.62	24.58	24.07	25.02	25.47
	8H	22.01	22.91	22.47	23.35	23.81	24.05	24.95	24.51	25.39	25.85
	12H	22.10	22.91	22.58	23.38	23.85	24.36	25.17	24.84	25.64	26.11
8H	4H	21.79	22.69	22.25	23.13	23.59	22.93	23.83	23.39	24.27	24.73
	6H	22.48	23.23	22.97	23.71	24.19	24.10	24.85	24.59	25.33	25.81
	8H	22.71	23.38	23.21	23.88	24.37	24.64	25.31	25.15	25.82	26.30
	12H	22.85	23.45	23.36	23.94	24.50	25.07	25.67	25.57	26.16	26.71
12H	4H	21.88	22.69	22.36	23.17	23.64	22.96	23.77	23.44	24.24	24.71
	6H	22.63	23.30	23.13	23.81	24.29	24.15	24.83	24.66	25.33	25.82
	8H	22.93	23.53	23.43	24.02	24.57	24.77	25.37	25.27	25.85	26.41