

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: P1586545

Luminaire Tested: 22CZSP-60HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586545
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-60HE-L935
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 6700 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

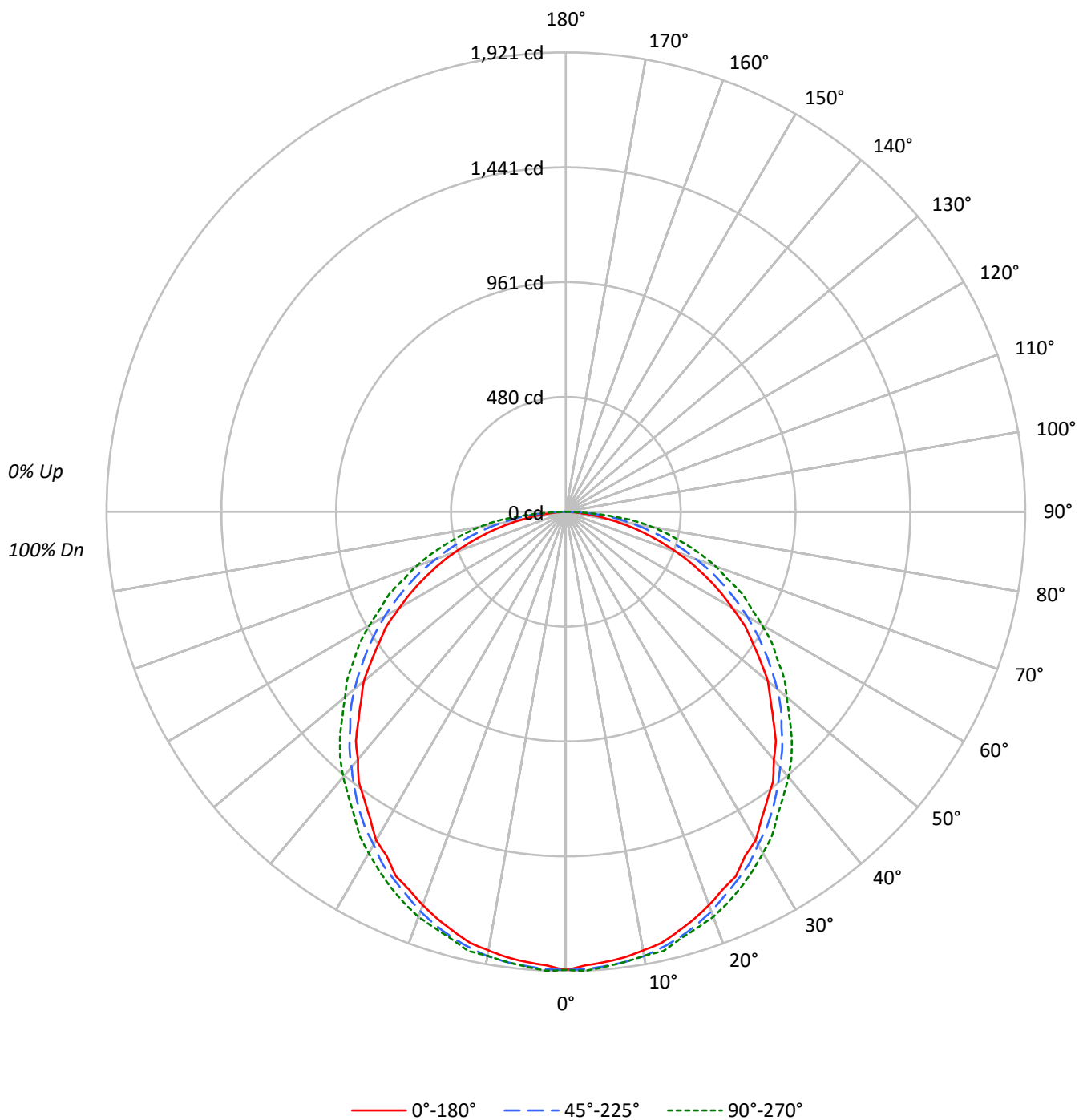
Lumens per Lamp: N/A
Luminaire Lumens: 5644.0 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 41.5
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°	6000	6000	6000
5°	5942	5996	6001
10°	5923	5999	5994
15°	5887	5971	5994
20°	5833	5925	6006
25°	5809	5869	5988
30°	5736	5811	5961
35°	5616	5774	5906
40°	5532	5701	5921
45°	5428	5649	5917
50°	5374	5618	5870
55°	5202	5542	5900
60°	5027	5481	5935
65°	4809	5398	6037
70°	4520	5295	6101
75°	4072	5200	6223
80°	3331	5105	6631
85°	2170	5087	6201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6957 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	3.2
10°-20°	518.7	9.2
20°-30°	783.8	13.9
30°-40°	945.4	16.8
40°-50°	988.3	17.5
50°-60°	911.4	16.1
60°-70°	722.1	12.8
70°-80°	451.5	8.0
80°-90°	141.6	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°	1483.6	26.3
0°-40°	2429.0	43.0
0°-60°	4328.7	76.7
0°-90°	5644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5644.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1916	1916	1916	1916	1916	
5°	1890	1899	1908	1914	1909	180
15°	1816	1825	1842	1854	1849	512
25°	1681	1676	1699	1723	1733	771
35°	1469	1486	1510	1536	1545	921
45°	1226	1243	1276	1308	1336	949
55°	953	975	1015	1070	1081	854
65°	649	677	728	786	815	643
75°	337	364	430	490	514	355
85°	60	86	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°	1916.2	1916.2	1916.2	1916.2	1916.2
2.5°	1898.9	1907.6	1914.5	1912.7	1921.4
5°	1890.3	1898.9	1907.6	1914.5	1909.3
7.5°	1879.9	1888.6	1898.9	1909.3	1898.9
10°	1862.7	1867.9	1886.8	1888.6	1885.1
12.5°	1847.1	1852.3	1866.1	1878.2	1881.7
15°	1816.1	1824.7	1842.0	1854.0	1848.9
17.5°	1785.0	1797.1	1812.6	1824.7	1824.7
20°	1750.5	1759.1	1778.1	1786.7	1802.3
22.5°	1710.8	1721.1	1736.7	1760.8	1769.5
25°	1681.4	1676.2	1698.7	1722.8	1733.2
27.5°	1622.7	1629.6	1660.7	1683.1	1691.8
30°	1586.5	1589.9	1607.2	1638.3	1648.6
32.5°	1522.6	1533.0	1564.0	1586.5	1605.5
35°	1469.1	1486.3	1510.5	1536.4	1545.0
37.5°	1422.5	1425.9	1453.5	1488.1	1495.0
40°	1353.4	1374.1	1394.8	1438.0	1448.4
42.5°	1299.9	1310.3	1339.6	1381.0	1396.6
45°	1225.7	1242.9	1275.7	1308.5	1336.2
47.5°	1160.1	1177.3	1220.5	1261.9	1267.1
50°	1103.1	1110.0	1153.2	1199.8	1205.0
52.5°	1025.4	1042.7	1084.1	1135.9	1153.2
55°	952.9	975.4	1015.1	1070.3	1080.7
57.5°	889.0	899.4	946.0	1001.3	1022.0
60°	802.7	832.1	875.2	928.7	947.7
62.5°	728.5	756.1	802.7	852.8	873.5
65°	649.1	676.7	728.5	785.5	814.8
67.5°	573.1	595.6	657.7	716.4	730.2
70°	493.7	519.6	578.3	638.7	666.4
72.5°	410.9	440.2	505.8	562.8	592.1
75°	336.6	364.2	429.8	490.3	514.4
77.5°	258.9	290.0	353.9	414.3	441.9
80°	184.7	215.8	283.1	343.5	367.7
82.5°	119.1	151.9	215.8	269.3	290.0
85°	60.4	86.3	141.6	165.7	172.6
87.5°	19.0	31.1	48.3	55.2	55.2
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	19.42	18.12	19.73	20.05	18.54	20.21	18.90	20.52	20.84
	3H	19.53	21.04	19.91	21.37	21.73	20.68	22.20	21.06	22.52	22.88
	4H	20.17	21.60	20.57	21.94	22.32	21.61	23.03	22.00	23.38	23.76
	6H	20.60	21.92	21.01	22.29	22.68	22.43	23.76	22.84	24.12	24.51
	8H	20.71	21.98	21.13	22.36	22.76	22.78	24.05	23.20	24.44	24.83
	12H	20.76	21.98	21.19	22.36	22.79	23.02	24.24	23.45	24.62	25.05
4H	2H	18.52	19.95	18.92	20.30	20.67	19.14	20.56	19.53	20.91	21.29
	3H	20.53	21.74	20.94	22.13	22.53	21.52	22.73	21.93	23.12	23.52
	4H	21.29	22.39	21.72	22.80	23.23	22.61	23.70	23.04	24.11	24.55
	6H	21.84	22.80	22.29	23.24	23.69	23.61	24.57	24.06	25.00	25.46
	8H	22.00	22.89	22.45	23.34	23.80	24.03	24.93	24.49	25.37	25.84
	12H	22.08	22.89	22.56	23.37	23.84	24.35	25.16	24.83	25.63	26.10
8H	4H	21.77	22.67	22.23	23.11	23.58	22.92	23.81	23.38	24.26	24.72
	6H	22.46	23.21	22.95	23.70	24.17	24.08	24.83	24.57	25.32	25.79
	8H	22.69	23.37	23.20	23.87	24.35	24.63	25.30	25.13	25.80	26.29
	12H	22.84	23.44	23.34	23.92	24.48	25.06	25.65	25.56	26.14	26.70
12H	4H	21.87	22.68	22.35	23.15	23.62	22.95	23.75	23.42	24.23	24.70
	6H	22.61	23.29	23.12	23.79	24.28	24.14	24.81	24.64	25.32	25.80
	8H	22.91	23.51	23.42	24.00	24.56	24.75	25.35	25.26	25.84	26.40