

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: P1586787

Luminaire Tested: 22CZSP-A-60HE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586787
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-A-60HE-L940
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 6700 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

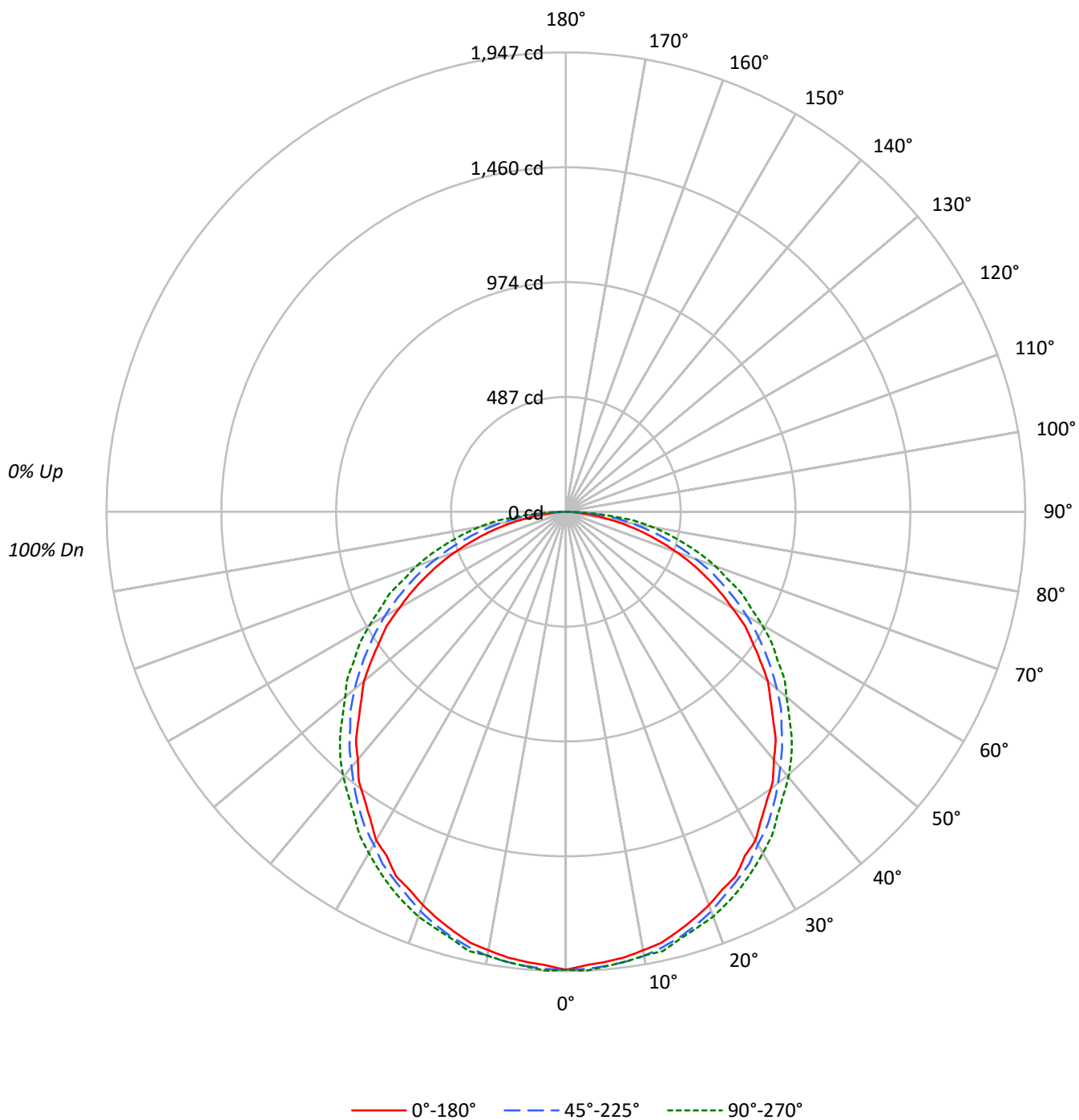
Lumens per Lamp: N/A
Luminaire Lumens: 5718.0 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	6079	6079	6079
5°	6020	6075	6080
10°	6000	6078	6072
15°	5965	6049	6072
20°	5909	6003	6084
25°	5886	5946	6067
30°	5812	5888	6039
35°	5689	5850	5984
40°	5605	5776	5998
45°	5499	5724	5995
50°	5444	5691	5947
55°	5270	5614	5977
60°	5093	5553	6013
65°	4872	5468	6116
70°	4580	5364	6181
75°	4126	5269	6306
80°	3374	5172	6717
85°	2199	5152	6284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 7048 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	3.2
10°-20°	525.5	9.2
20°-30°	794.1	13.9
30°-40°	957.8	16.8
40°-50°	1001.3	17.5
50°-60°	923.3	16.1
60°-70°	731.6	12.8
70°-80°	457.4	8.0
80°-90°	143.5	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°	1503.1	26.3
0°-40°	2460.8	43.0
0°-60°	4385.4	76.7
0°-90°	5718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1915	1924	1933	1940	1934	182
15°	1840	1849	1866	1878	1873	519
25°	1704	1698	1721	1745	1756	781
35°	1488	1506	1530	1556	1565	933
45°	1242	1259	1292	1326	1354	961
55°	965	988	1028	1084	1095	866
65°	658	686	738	796	826	651
75°	341	369	436	497	521	359
85°	61	87	143	168	175	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1941.3	1941.3	1941.3	1941.3	1941.3
2.5°	1923.8	1932.6	1939.6	1937.8	1946.6
5°	1915.1	1923.8	1932.6	1939.6	1934.3
7.5°	1904.6	1913.3	1923.8	1934.3	1923.8
10°	1887.1	1892.3	1911.6	1913.3	1909.8
12.5°	1871.4	1876.6	1890.6	1902.8	1906.3
15°	1839.9	1848.6	1866.1	1878.4	1873.1
17.5°	1808.4	1820.6	1836.4	1848.6	1848.6
20°	1773.4	1782.2	1801.4	1810.1	1825.9
22.5°	1733.2	1743.7	1759.4	1783.9	1792.7
25°	1703.5	1698.2	1720.9	1745.4	1755.9
27.5°	1644.0	1651.0	1682.5	1705.2	1714.0
30°	1607.3	1610.8	1628.3	1659.7	1670.2
32.5°	1542.6	1553.1	1584.5	1607.3	1626.5
35°	1488.3	1505.8	1530.3	1556.5	1565.3
37.5°	1441.1	1444.6	1472.6	1507.6	1514.6
40°	1371.2	1392.1	1413.1	1456.9	1467.4
42.5°	1316.9	1327.4	1357.2	1399.1	1414.9
45°	1241.7	1259.2	1292.5	1325.7	1353.7
47.5°	1175.3	1192.8	1236.5	1278.5	1283.7
50°	1117.6	1124.6	1168.3	1215.5	1220.8
52.5°	1038.9	1056.4	1098.3	1150.8	1168.3
55°	965.4	988.1	1028.4	1084.3	1094.8
57.5°	900.7	911.2	958.4	1014.4	1035.4
60°	813.3	843.0	886.7	940.9	960.2
62.5°	738.0	766.0	813.3	864.0	885.0
65°	657.6	685.6	738.0	795.8	825.5
67.5°	580.6	603.4	666.3	725.8	739.8
70°	500.2	526.4	585.9	647.1	675.1
72.5°	416.2	446.0	512.4	570.2	599.9
75°	341.0	369.0	435.5	496.7	521.2
77.5°	262.3	293.8	358.5	419.7	447.7
80°	187.1	218.6	286.8	348.0	372.5
82.5°	120.7	153.9	218.6	272.8	293.8
85°	61.2	87.4	143.4	167.9	174.9
87.5°	19.2	31.5	49.0	56.0	56.0
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	17.80	19.46	18.16	19.78	20.09	18.59	20.25	18.95	20.57	20.88
	3H	19.58	21.09	19.95	21.42	21.78	20.73	22.24	21.11	22.57	22.93
	4H	20.21	21.64	20.61	21.99	22.36	21.65	23.08	22.05	23.43	23.80
	6H	20.64	21.97	21.05	22.33	22.72	22.48	23.80	22.89	24.17	24.56
	8H	20.75	22.02	21.18	22.41	22.81	22.82	24.09	23.25	24.48	24.88
	12H	20.81	22.02	21.24	22.41	22.83	23.07	24.28	23.50	24.66	25.09
4H	2H	18.57	20.00	18.97	20.34	20.72	19.18	20.61	19.58	20.96	21.33
	3H	20.58	21.78	20.99	22.18	22.58	21.57	22.77	21.98	23.17	23.57
	4H	21.34	22.43	21.77	22.84	23.28	22.65	23.75	23.09	24.16	24.59
	6H	21.89	22.84	22.34	23.28	23.74	23.65	24.61	24.10	25.05	25.50
	8H	22.04	22.94	22.50	23.38	23.84	24.08	24.98	24.54	25.42	25.88
	12H	22.13	22.94	22.61	23.41	23.88	24.39	25.20	24.87	25.68	26.14
8H	4H	21.82	22.72	22.28	23.16	23.62	22.96	23.86	23.42	24.30	24.76
	6H	22.51	23.26	23.00	23.74	24.22	24.13	24.88	24.62	25.36	25.84
	8H	22.74	23.41	23.24	23.91	24.40	24.67	25.34	25.18	25.85	26.33
	12H	22.88	23.48	23.39	23.97	24.53	25.10	25.70	25.61	26.19	26.74
12H	4H	21.92	22.72	22.39	23.20	23.67	22.99	23.80	23.47	24.27	24.74
	6H	22.66	23.33	23.16	23.84	24.32	24.18	24.86	24.69	25.36	25.85
	8H	22.96	23.56	23.46	24.05	24.60	24.80	25.40	25.30	25.89	26.44