

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: P1586495

Luminaire Tested: 22CZSP-54HE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586495
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-54HE-L835
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

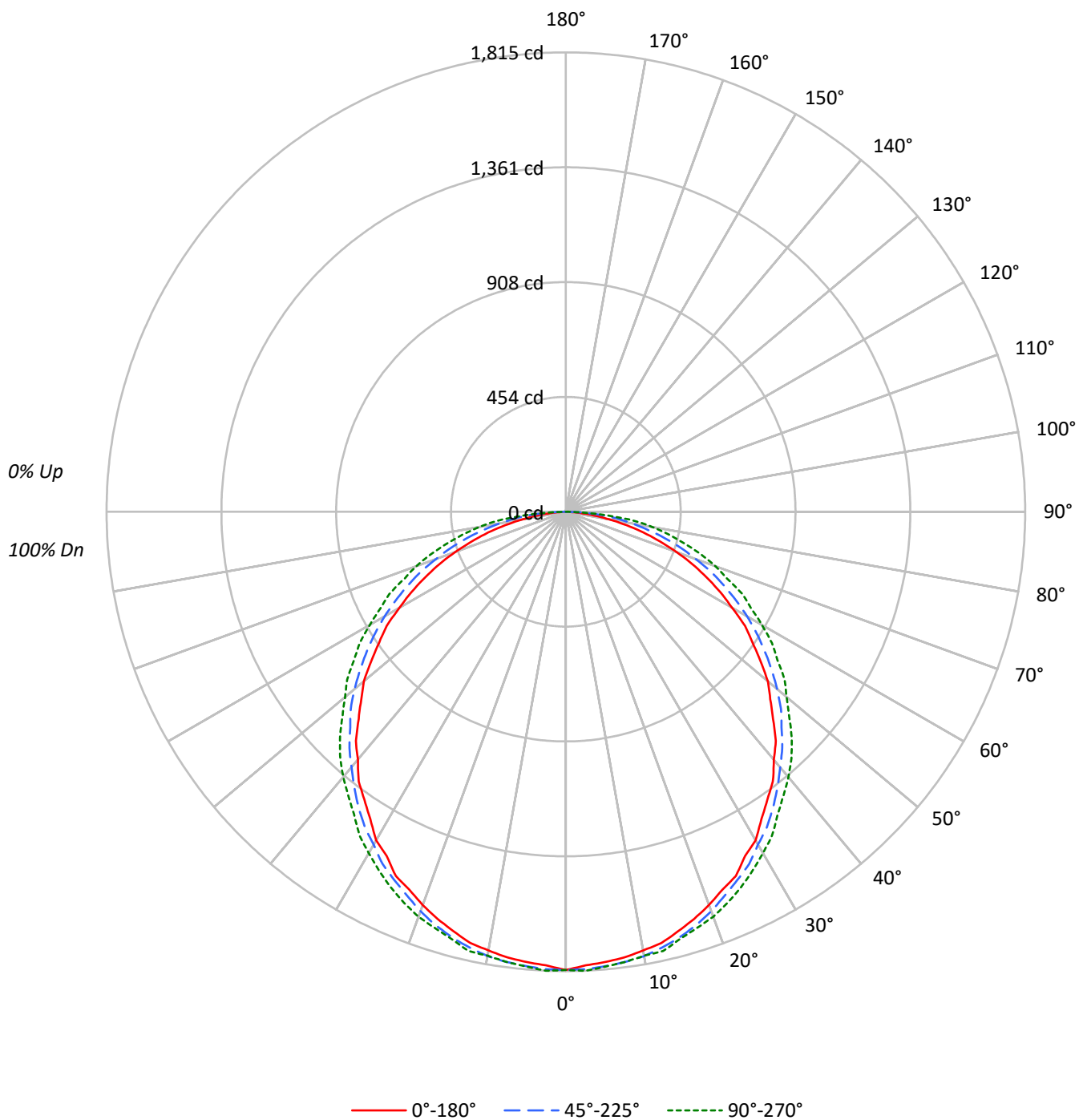
Lumens per Lamp: N/A
Luminaire Lumens: 5332.0 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.1
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°	5669	5669	5669
5°	5613	5665	5670
10°	5595	5668	5663
15°	5562	5641	5662
20°	5511	5598	5674
25°	5488	5545	5657
30°	5419	5490	5632
35°	5305	5455	5580
40°	5226	5386	5593
45°	5128	5337	5590
50°	5077	5307	5545
55°	4914	5235	5573
60°	4750	5179	5607
65°	4543	5099	5704
70°	4270	5002	5763
75°	3847	4913	5880
80°	3147	4824	6265
85°	2051	4804	5860

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6573 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.1	3.2
10°-20°	490.0	9.2
20°-30°	740.5	13.9
30°-40°	893.1	16.8
40°-50°	933.7	17.5
50°-60°	861.0	16.1
60°-70°	682.2	12.8
70°-80°	426.6	8.0
80°-90°	133.8	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°	1401.6	26.3
0°-40°	2294.7	43.0
0°-60°	4089.4	76.7
0°-90°	5332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1810	1810	1810	1810	1810	
5°	1786	1794	1802	1809	1804	170
15°	1716	1724	1740	1752	1747	484
25°	1588	1584	1605	1628	1637	728
35°	1388	1404	1427	1452	1460	870
45°	1158	1174	1205	1236	1262	896
55°	900	921	959	1011	1021	807
65°	613	639	688	742	770	607
75°	318	344	406	463	486	335
85°	57	82	134	157	163	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1810.3	1810.3	1810.3	1810.3	1810.3
2.5°	1794.0	1802.1	1808.6	1807.0	1815.2
5°	1785.8	1794.0	1802.1	1808.6	1803.7
7.5°	1776.0	1784.2	1794.0	1803.7	1794.0
10°	1759.7	1764.6	1782.5	1784.2	1780.9
12.5°	1745.0	1749.9	1763.0	1774.4	1777.6
15°	1715.7	1723.8	1740.1	1751.6	1746.7
17.5°	1686.3	1697.7	1712.4	1723.8	1723.8
20°	1653.7	1661.9	1679.8	1687.9	1702.6
22.5°	1616.2	1626.0	1640.7	1663.5	1671.6
25°	1588.5	1583.6	1604.8	1627.6	1637.4
27.5°	1533.0	1539.5	1568.9	1590.1	1598.3
30°	1498.8	1502.0	1518.3	1547.7	1557.5
32.5°	1438.4	1448.2	1477.6	1498.8	1516.7
35°	1387.9	1404.2	1427.0	1451.5	1459.6
37.5°	1343.8	1347.1	1373.2	1405.8	1412.3
40°	1278.6	1298.2	1317.7	1358.5	1368.3
42.5°	1228.0	1237.8	1265.6	1304.7	1319.4
45°	1157.9	1174.2	1205.2	1236.2	1262.3
47.5°	1095.9	1112.3	1153.0	1192.2	1197.1
50°	1042.1	1048.6	1089.4	1133.5	1138.3
52.5°	968.7	985.0	1024.2	1073.1	1089.4
55°	900.2	921.4	959.0	1011.1	1020.9
57.5°	839.9	849.7	893.7	945.9	965.5
60°	758.4	786.1	826.9	877.4	895.3
62.5°	688.2	714.3	758.4	805.6	825.2
65°	613.2	639.3	688.2	742.0	769.8
67.5°	541.4	562.6	621.4	676.8	689.9
70°	466.4	490.9	546.3	603.4	629.5
72.5°	388.1	415.9	477.8	531.7	559.4
75°	318.0	344.1	406.1	463.2	486.0
77.5°	244.6	274.0	334.3	391.4	417.5
80°	174.5	203.9	267.5	324.5	347.4
82.5°	112.5	143.5	203.9	254.4	274.0
85°	57.1	81.5	133.7	156.6	163.1
87.5°	17.9	29.4	45.7	52.2	52.2
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	17.55	19.22	17.92	19.53	19.85	18.34	20.01	18.71	20.32	20.64
	3H	19.33	20.85	19.71	21.17	21.53	20.49	22.00	20.86	22.32	22.68
	4H	19.97	21.40	20.37	21.75	22.12	21.41	22.84	21.81	23.18	23.56
	6H	20.40	21.72	20.81	22.09	22.48	22.23	23.56	22.65	23.92	24.31
	8H	20.51	21.78	20.93	22.17	22.56	22.58	23.85	23.00	24.24	24.64
	12H	20.56	21.78	20.99	22.16	22.59	22.82	24.04	23.25	24.42	24.85
4H	2H	18.33	19.75	18.72	20.10	20.47	18.94	20.37	19.34	20.71	21.09
	3H	20.34	21.54	20.74	21.94	22.33	21.32	22.53	21.73	22.92	23.32
	4H	21.10	22.19	21.53	22.60	23.04	22.41	23.50	22.84	23.92	24.35
	6H	21.64	22.60	22.10	23.04	23.49	23.41	24.37	23.86	24.81	25.26
	8H	21.80	22.70	22.26	23.14	23.60	23.84	24.73	24.30	25.18	25.64
	12H	21.89	22.70	22.37	23.17	23.64	24.15	24.96	24.63	25.43	25.90
8H	4H	21.58	22.47	22.03	22.92	23.38	22.72	23.62	23.18	24.06	24.52
	6H	22.27	23.02	22.76	23.50	23.98	23.88	24.63	24.38	25.12	25.59
	8H	22.49	23.17	23.00	23.67	24.16	24.43	25.10	24.94	25.61	26.09
	12H	22.64	23.24	23.15	23.73	24.29	24.86	25.45	25.36	25.94	26.50
12H	4H	21.67	22.48	22.15	22.96	23.42	22.75	23.56	23.23	24.03	24.50
	6H	22.41	23.09	22.92	23.59	24.08	23.94	24.62	24.45	25.12	25.60
	8H	22.72	23.31	23.22	23.80	24.36	24.56	25.15	25.06	25.64	26.20