

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: P1584374

Luminaire Tested: 14CZSP-54HE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-54HE-L835-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

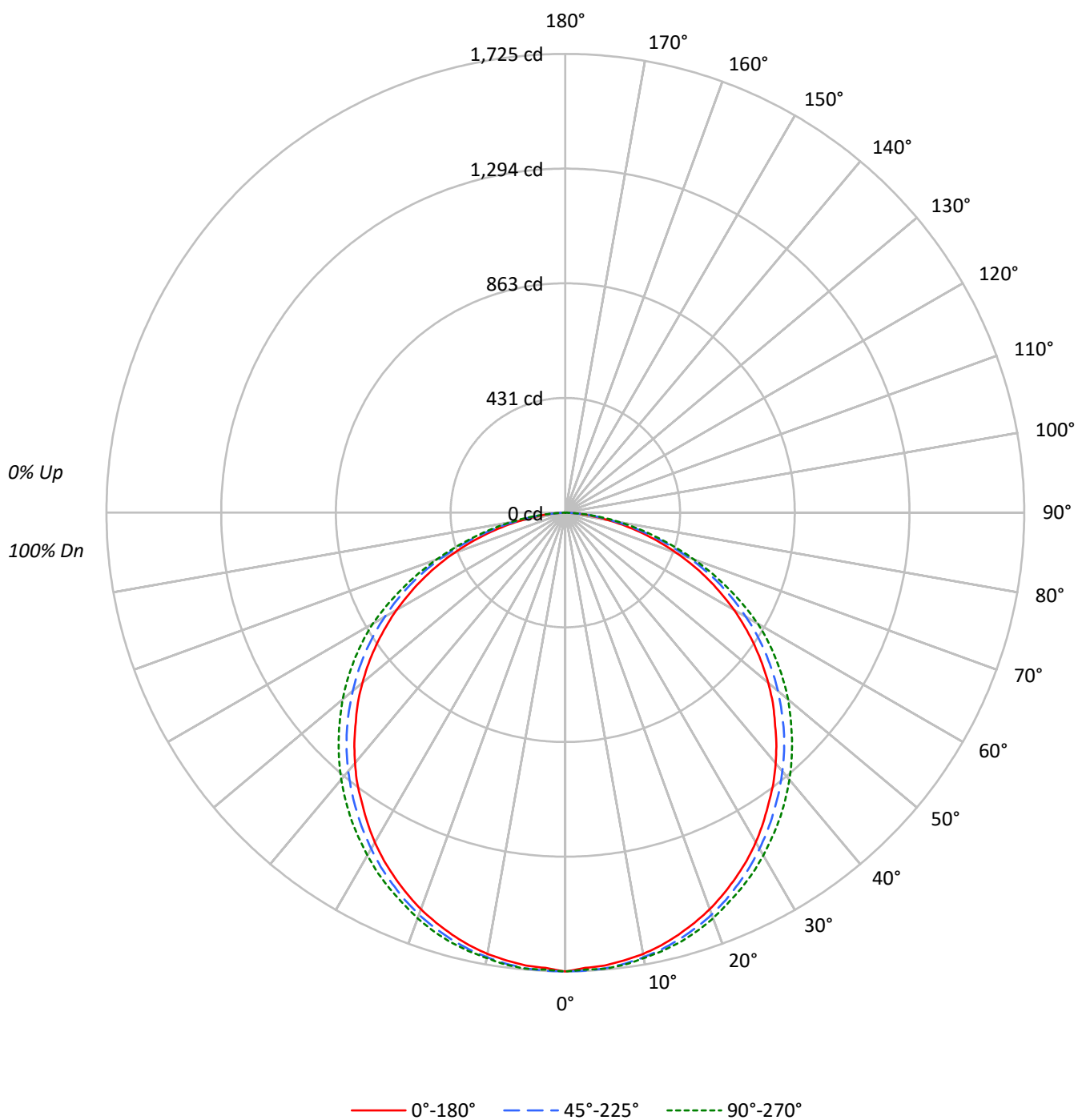
Lumens per Lamp: N/A
Luminaire Lumens: 4988.0 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.3
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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5814	5814	5814
5°	5781	5818	5824
10°	5765	5808	5820
15°	5732	5791	5832
20°	5692	5768	5821
25°	5634	5724	5803
30°	5571	5679	5790
35°	5482	5629	5780
40°	5409	5584	5764
45°	5308	5535	5741
50°	5219	5469	5731
55°	5094	5391	5693
60°	4938	5284	5635
65°	4718	5139	5403
70°	4398	4853	5071
75°	3929	4378	4626
80°	3219	3691	4046
85°	2157	2695	3008

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5741 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.4	3.3
10°-20°	468.5	9.4
20°-30°	709.3	14.2
30°-40°	856.6	17.2
40°-50°	895.2	17.9
50°-60°	820.3	16.4
60°-70°	633.2	12.7
70°-80°	356.2	7.1
80°-90°	85.2	1.7
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°	1341.2	26.9
0°-40°	2197.8	44.1
0°-60°	3913.4	78.5
0°-90°	4988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4988.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1725	1725	1725	1725	1725	
5°	1709	1722	1720	1722	1722	162
15°	1643	1656	1660	1667	1672	464
25°	1515	1529	1540	1548	1561	698
35°	1333	1349	1368	1387	1405	835
45°	1114	1136	1162	1185	1205	861
55°	867	890	918	946	969	775
65°	592	618	645	670	678	585
75°	302	330	336	350	355	320
85°	56	64	70	76	78	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1725.4	1725.4	1725.4	1725.4	1725.4
2.5°	1713.6	1726.8	1723.9	1728.3	1720.2
5°	1709.2	1721.7	1720.2	1721.7	1721.7
7.5°	1698.2	1711.4	1710.7	1712.9	1714.3
10°	1685.0	1697.5	1697.5	1699.7	1701.1
12.5°	1666.6	1679.8	1681.3	1685.0	1687.9
15°	1643.1	1656.3	1660.0	1666.6	1671.8
17.5°	1616.7	1630.6	1636.5	1643.1	1649.7
20°	1587.3	1599.8	1608.6	1613.8	1623.3
22.5°	1552.8	1566.8	1576.3	1581.5	1591.7
25°	1515.4	1528.6	1539.6	1547.7	1560.9
27.5°	1475.7	1488.9	1502.2	1511.7	1527.1
30°	1431.7	1445.6	1459.6	1474.3	1488.2
32.5°	1384.0	1400.1	1415.5	1431.7	1447.1
35°	1332.6	1349.4	1368.5	1386.9	1405.2
37.5°	1284.8	1300.3	1320.1	1339.9	1358.3
40°	1229.8	1246.7	1269.4	1291.4	1310.5
42.5°	1174.0	1192.3	1217.3	1238.6	1259.1
45°	1113.8	1135.8	1161.5	1185.0	1204.8
47.5°	1058.0	1077.1	1102.8	1128.5	1149.0
50°	995.6	1016.9	1043.3	1070.5	1093.2
52.5°	932.4	954.5	981.6	1008.8	1032.3
55°	867.1	889.8	917.7	946.4	969.1
57.5°	800.3	824.5	853.1	881.8	904.5
60°	732.7	757.0	784.1	815.7	836.2
62.5°	662.2	689.4	715.1	744.5	757.0
65°	591.8	617.5	644.6	670.3	677.7
67.5°	519.8	546.2	570.5	587.4	596.9
70°	446.4	475.0	492.6	508.8	514.7
72.5°	373.7	402.3	412.6	428.0	433.9
75°	301.8	329.7	336.3	350.2	355.3
77.5°	232.0	257.7	259.9	276.1	280.5
80°	165.9	186.5	190.2	205.6	208.5
82.5°	106.5	121.1	126.3	139.5	143.9
85°	55.8	63.9	69.7	76.4	77.8
87.5°	18.4	22.8	19.1	19.8	18.4
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	17.83	19.48	18.19	19.79	20.11	18.37	20.02	18.73	20.33	20.65
	3H	19.60	21.10	19.98	21.42	21.78	20.22	21.72	20.60	22.04	22.40
	4H	20.23	21.64	20.63	21.98	22.36	20.89	22.30	21.29	22.65	23.02
	6H	20.64	21.94	21.05	22.31	22.70	21.37	22.68	21.78	23.04	23.43
	8H	20.74	21.99	21.17	22.38	22.78	21.52	22.76	21.94	23.15	23.55
	12H	20.79	21.99	21.22	22.37	22.80	21.60	22.79	22.03	23.18	23.60
4H	2H	18.55	19.96	18.95	20.31	20.68	18.97	20.38	19.37	20.73	21.10
	3H	20.55	21.73	20.96	22.12	22.52	21.05	22.23	21.46	22.62	23.02
	4H	21.30	22.37	21.74	22.79	23.22	21.84	22.91	22.27	23.32	23.76
	6H	21.83	22.77	22.29	23.21	23.66	22.45	23.38	22.90	23.82	24.27
	8H	21.97	22.85	22.43	23.29	23.75	22.64	23.51	23.10	23.95	24.42
	12H	22.05	22.84	22.53	23.31	23.78	22.76	23.54	23.24	24.02	24.49
8H	4H	21.64	22.51	22.10	22.96	23.42	22.12	22.99	22.58	23.43	23.90
	6H	22.28	23.01	22.77	23.50	23.97	22.83	23.56	23.32	24.04	24.52
	8H	22.48	23.13	22.99	23.64	24.12	23.09	23.74	23.60	24.24	24.73
	12H	22.61	23.19	23.12	23.68	24.24	23.27	23.85	23.78	24.34	24.90
12H	4H	21.68	22.46	22.16	22.94	23.41	22.14	22.93	22.62	23.40	23.87
	6H	22.34	22.99	22.84	23.49	23.98	22.87	23.52	23.38	24.03	24.51
	8H	22.59	23.16	23.09	23.65	24.21	23.18	23.75	23.68	24.24	24.80