

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: P1584672

Luminaire Tested: 14CZSP-A-54HE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584672
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-A-54HE-L830-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

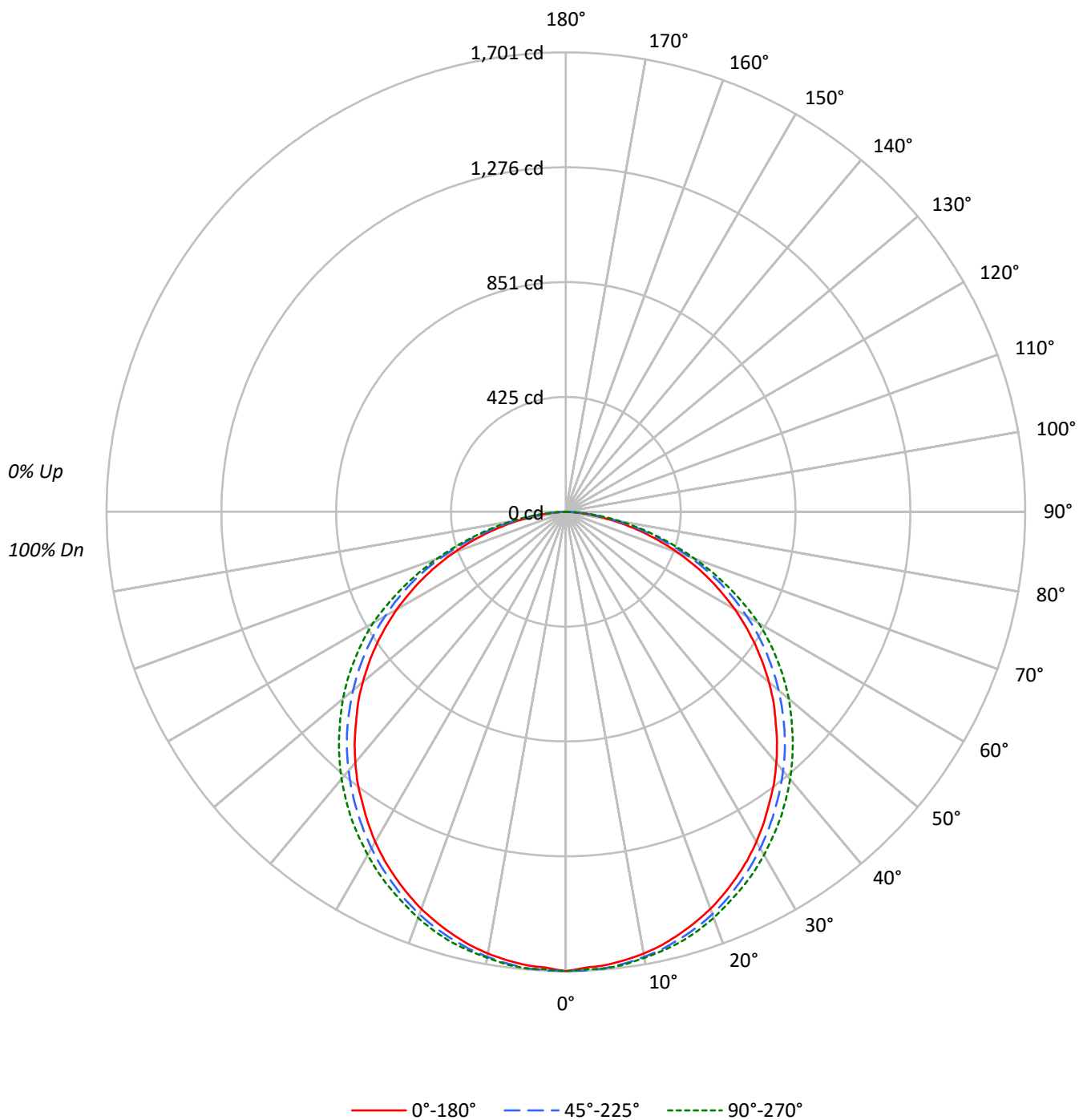
Lumens per Lamp: N/A
Luminaire Lumens: 4918.0 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	5732	5732	5732
5°	5700	5737	5742
10°	5684	5726	5739
15°	5652	5710	5750
20°	5612	5687	5739
25°	5555	5644	5722
30°	5492	5599	5709
35°	5405	5550	5699
40°	5333	5505	5684
45°	5233	5457	5661
50°	5146	5392	5650
55°	5022	5316	5613
60°	4868	5210	5556
65°	4652	5068	5328
70°	4336	4785	4999
75°	3873	4316	4562
80°	3175	3638	3990
85°	2126	2660	2965

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5661 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.1	3.3
10°-20°	461.9	9.4
20°-30°	699.4	14.2
30°-40°	844.6	17.2
40°-50°	882.7	17.9
50°-60°	808.8	16.4
60°-70°	624.3	12.7
70°-80°	351.2	7.1
80°-90°	84.0	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°	1322.4	26.9
0°-40°	2167.0	44.1
0°-60°	3858.4	78.5
0°-90°	4918.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4918.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1685	1698	1696	1698	1698	160
15°	1620	1633	1637	1643	1648	457
25°	1494	1507	1518	1526	1539	689
35°	1314	1330	1349	1367	1386	823
45°	1098	1120	1145	1168	1188	849
55°	855	877	905	933	956	764
65°	584	609	636	661	668	576
75°	298	325	332	345	350	315
85°	55	63	69	75	77	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1701.1	1701.1	1701.1	1701.1	1701.1
2.5°	1689.6	1702.6	1699.7	1704.0	1696.1
5°	1685.2	1697.5	1696.1	1697.5	1697.5
7.5°	1674.4	1687.4	1686.7	1688.8	1690.3
10°	1661.3	1673.6	1673.6	1675.8	1677.3
12.5°	1643.2	1656.3	1657.7	1661.3	1664.2
15°	1620.1	1633.1	1636.7	1643.2	1648.3
17.5°	1594.0	1607.8	1613.5	1620.1	1626.6
20°	1565.0	1577.4	1586.0	1591.1	1600.5
22.5°	1531.0	1544.8	1554.2	1559.3	1569.4
25°	1494.1	1507.1	1518.0	1526.0	1539.0
27.5°	1455.0	1468.0	1481.1	1490.5	1505.7
30°	1411.6	1425.3	1439.1	1453.6	1467.3
32.5°	1364.5	1380.5	1395.7	1411.6	1426.8
35°	1313.9	1330.5	1349.3	1367.4	1385.5
37.5°	1266.8	1282.0	1301.6	1321.1	1339.2
40°	1212.5	1229.2	1251.6	1273.3	1292.1
42.5°	1157.5	1175.6	1200.2	1221.2	1241.5
45°	1098.1	1119.9	1145.2	1168.4	1187.9
47.5°	1043.1	1061.9	1087.3	1112.6	1132.9
50°	981.6	1002.6	1028.6	1055.4	1077.9
52.5°	919.3	941.1	967.8	994.6	1017.8
55°	854.9	877.4	904.9	933.1	955.5
57.5°	789.0	812.9	841.2	869.4	891.8
60°	722.4	746.3	773.1	804.2	824.5
62.5°	652.9	679.7	705.1	734.0	746.3
65°	583.5	608.8	635.6	660.9	668.2
67.5°	512.5	538.6	562.5	579.1	588.5
70°	440.1	468.4	485.7	501.7	507.4
72.5°	368.5	396.7	406.8	422.0	427.8
75°	297.5	325.0	331.5	345.3	350.4
77.5°	228.7	254.1	256.3	272.2	276.5
80°	163.6	183.9	187.5	202.7	205.6
82.5°	105.0	119.4	124.5	137.5	141.9
85°	55.0	63.0	68.8	75.3	76.7
87.5°	18.1	22.4	18.8	19.5	18.1
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	17.78	19.43	18.14	19.74	20.06	18.32	19.97	18.68	20.28	20.60
	3H	19.55	21.05	19.93	21.37	21.73	20.18	21.67	20.55	21.99	22.35
	4H	20.18	21.59	20.58	21.94	22.31	20.84	22.25	21.24	22.60	22.97
	6H	20.59	21.89	21.00	22.26	22.65	21.32	22.63	21.73	22.99	23.38
	8H	20.69	21.94	21.12	22.33	22.73	21.47	22.71	21.89	23.10	23.50
	12H	20.74	21.94	21.17	22.32	22.75	21.55	22.74	21.98	23.13	23.55
4H	2H	18.50	19.91	18.90	20.26	20.63	18.93	20.33	19.32	20.68	21.05
	3H	20.50	21.68	20.91	22.08	22.47	21.00	22.18	21.41	22.57	22.97
	4H	21.26	22.32	21.69	22.74	23.17	21.79	22.86	22.22	23.27	23.71
	6H	21.78	22.72	22.24	23.16	23.61	22.40	23.33	22.85	23.77	24.22
	8H	21.92	22.80	22.38	23.24	23.70	22.59	23.46	23.05	23.90	24.37
	12H	22.00	22.79	22.48	23.26	23.73	22.71	23.49	23.19	23.97	24.44
8H	4H	21.59	22.47	22.05	22.91	23.37	22.07	22.94	22.53	23.39	23.85
	6H	22.23	22.96	22.73	23.45	23.92	22.78	23.51	23.27	24.00	24.47
	8H	22.43	23.08	22.94	23.59	24.07	23.04	23.69	23.55	24.20	24.68
	12H	22.56	23.14	23.07	23.63	24.19	23.22	23.80	23.73	24.29	24.85
12H	4H	21.63	22.41	22.11	22.89	23.36	22.09	22.88	22.57	23.35	23.82
	6H	22.29	22.94	22.80	23.45	23.93	22.82	23.47	23.33	23.98	24.46
	8H	22.54	23.11	23.05	23.60	24.16	23.13	23.70	23.63	24.19	24.75