

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: P1584373

Luminaire Tested: 14CZSP-54HE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2602-698-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-54HE-L830
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

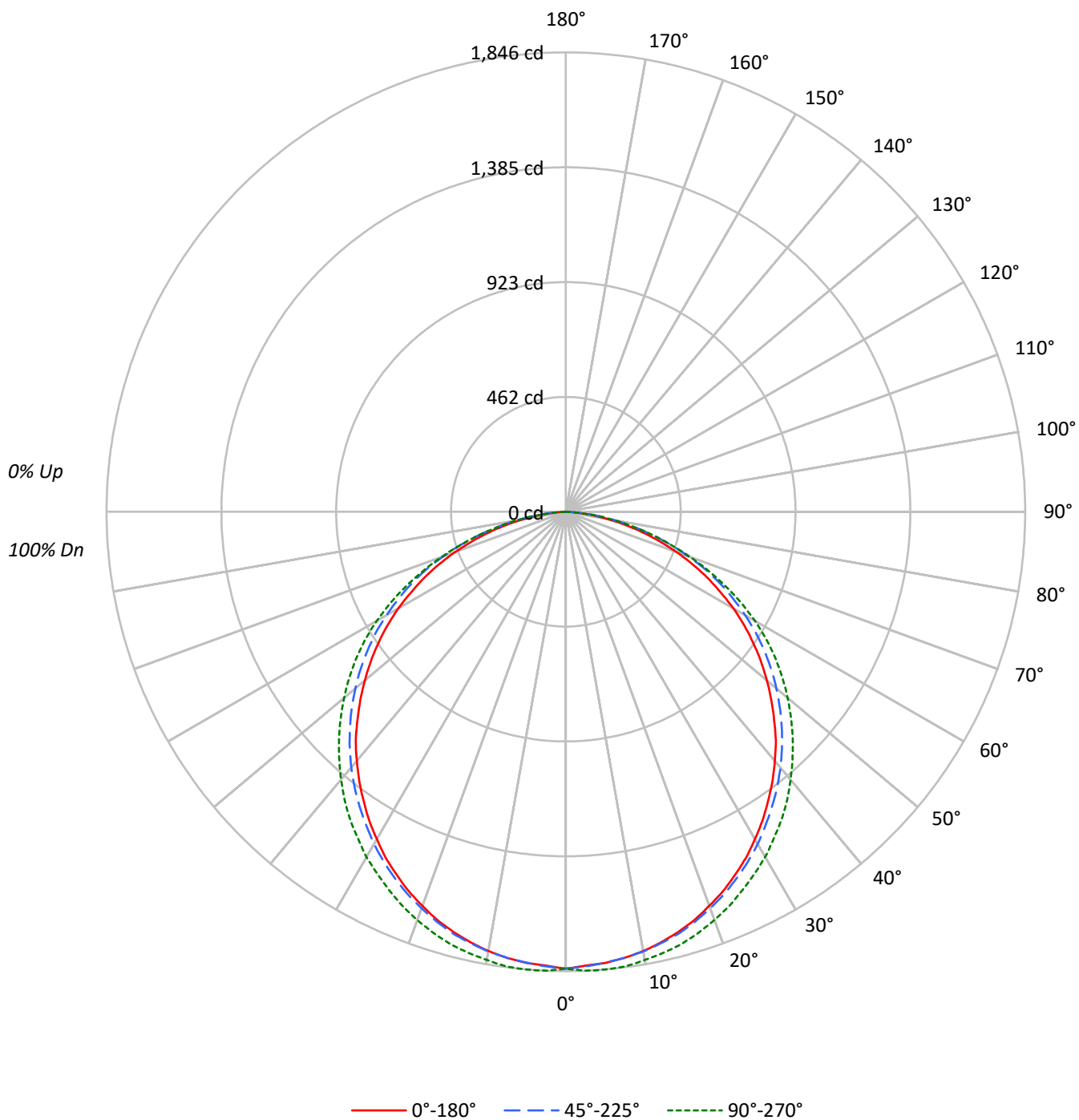
Lumens per Lamp: N/A
Luminaire Lumens: 5288.0 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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		94	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	73	61	53	47	59	52	46		57	51	46		55
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		42
9	56	43	34	29	55	42	34	29	41	34	29		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°	6186	6186	6186
5°	6157	6151	6245
10°	6133	6139	6258
15°	6096	6120	6272
20°	6044	6081	6261
25°	5983	6041	6241
30°	5912	5999	6235
35°	5831	5944	6215
40°	5748	5900	6182
45°	5643	5848	6145
50°	5528	5790	6099
55°	5402	5717	6042
60°	5242	5615	5918
65°	5003	5472	5651
70°	4666	5160	5245
75°	4163	4658	4704
80°	3388	3924	3891
85°	2204	2741	2138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6145 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	3.3
10°-20°	498.2	9.4
20°-30°	754.6	14.3
30°-40°	911.5	17.2
40°-50°	952.2	18.0
50°-60°	872.0	16.5
60°-70°	670.0	12.7
70°-80°	373.0	7.1
80°-90°	82.6	1.6
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°	1426.7	27.0
0°-40°	2338.2	44.2
0°-60°	4162.4	78.7
0°-90°	5288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5288.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1836	1836	1836	1836	1836	
5°	1820	1839	1818	1829	1846	173
15°	1748	1765	1754	1772	1798	493
25°	1609	1628	1625	1649	1678	742
35°	1418	1438	1445	1480	1511	887
45°	1184	1210	1227	1264	1290	914
55°	920	949	973	1008	1028	822
65°	628	660	686	700	709	620
75°	320	353	358	358	361	339
85°	57	67	71	59	55	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1835.8	1835.8	1835.8	1835.8	1835.8
2.5°	1825.4	1842.7	1828.9	1834.1	1846.2
5°	1820.2	1839.2	1818.5	1828.9	1846.2
7.5°	1808.1	1825.4	1808.1	1820.2	1842.7
10°	1792.6	1811.6	1794.3	1806.4	1828.9
12.5°	1771.8	1787.4	1775.3	1792.6	1815.0
15°	1747.6	1764.9	1754.5	1771.8	1797.8
17.5°	1720.0	1735.5	1726.9	1749.4	1773.6
20°	1685.4	1702.7	1695.8	1718.2	1745.9
22.5°	1650.8	1668.1	1662.9	1685.4	1714.8
25°	1609.3	1628.4	1624.9	1649.1	1678.5
27.5°	1567.8	1586.9	1585.1	1612.8	1640.5
30°	1519.4	1538.5	1541.9	1571.3	1602.4
32.5°	1471.0	1491.8	1493.5	1526.4	1555.7
35°	1417.5	1438.2	1445.1	1479.7	1510.8
37.5°	1363.9	1384.6	1395.0	1427.8	1460.7
40°	1306.8	1329.3	1341.4	1376.0	1405.4
42.5°	1249.8	1272.3	1286.1	1320.7	1348.3
45°	1184.1	1210.0	1227.3	1263.6	1289.5
47.5°	1120.1	1147.8	1166.8	1201.4	1227.3
50°	1054.5	1083.8	1104.6	1139.2	1163.4
52.5°	988.8	1019.9	1040.6	1073.5	1097.7
55°	919.6	949.0	973.2	1007.8	1028.5
57.5°	850.5	879.9	905.8	936.9	955.9
60°	777.9	809.0	833.2	864.3	878.1
62.5°	701.8	734.7	758.9	783.1	795.2
65°	627.5	660.3	686.3	700.1	708.7
67.5°	551.4	584.3	608.5	615.4	620.6
70°	473.6	506.5	523.8	527.2	532.4
72.5°	395.9	428.7	442.5	442.5	444.3
75°	319.8	352.6	357.8	357.8	361.3
77.5°	245.5	274.8	278.3	278.3	278.3
80°	174.6	197.1	202.2	202.2	200.5
82.5°	110.6	126.2	134.8	127.9	124.5
85°	57.0	67.4	70.9	58.8	55.3
87.5°	17.3	20.7	17.3	10.4	8.6
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	18.08	19.72	18.44	20.04	20.35	18.58	20.23	18.95	20.54	20.86
	3H	19.85	21.34	20.22	21.66	22.02	20.38	21.87	20.76	22.20	22.56
	4H	20.47	21.87	20.87	22.22	22.60	21.01	22.41	21.41	22.76	23.14
	6H	20.87	22.17	21.28	22.54	22.93	21.43	22.73	21.84	23.10	23.49
	8H	20.97	22.21	21.40	22.60	23.00	21.54	22.78	21.96	23.17	23.57
	12H	21.02	22.21	21.45	22.59	23.02	21.58	22.77	22.01	23.15	23.58
4H	2H	18.80	20.20	19.20	20.55	20.92	19.19	20.60	19.59	20.94	21.32
	3H	20.79	21.97	21.20	22.36	22.76	21.20	22.38	21.61	22.78	23.18
	4H	21.55	22.61	21.98	23.02	23.46	21.96	23.02	22.39	23.43	23.87
	6H	22.07	23.00	22.52	23.44	23.89	22.50	23.43	22.95	23.87	24.32
	8H	22.20	23.07	22.66	23.51	23.98	22.64	23.51	23.10	23.95	24.41
	12H	22.28	23.06	22.75	23.53	24.00	22.70	23.48	23.18	23.96	24.43
8H	4H	21.88	22.75	22.34	23.19	23.66	22.24	23.11	22.70	23.55	24.02
	6H	22.51	23.24	23.01	23.72	24.20	22.88	23.61	23.38	24.09	24.57
	8H	22.71	23.35	23.21	23.86	24.34	23.08	23.73	23.59	24.23	24.72
	12H	22.83	23.40	23.33	23.89	24.45	23.18	23.76	23.69	24.25	24.81
12H	4H	21.91	22.69	22.39	23.17	23.64	22.27	23.05	22.75	23.52	23.99
	6H	22.56	23.21	23.07	23.72	24.20	22.92	23.57	23.43	24.08	24.56
	8H	22.81	23.38	23.31	23.87	24.43	23.17	23.74	23.67	24.23	24.79