

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: P1584387

Luminaire Tested: 14CZSP-54HE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584387
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-L940
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

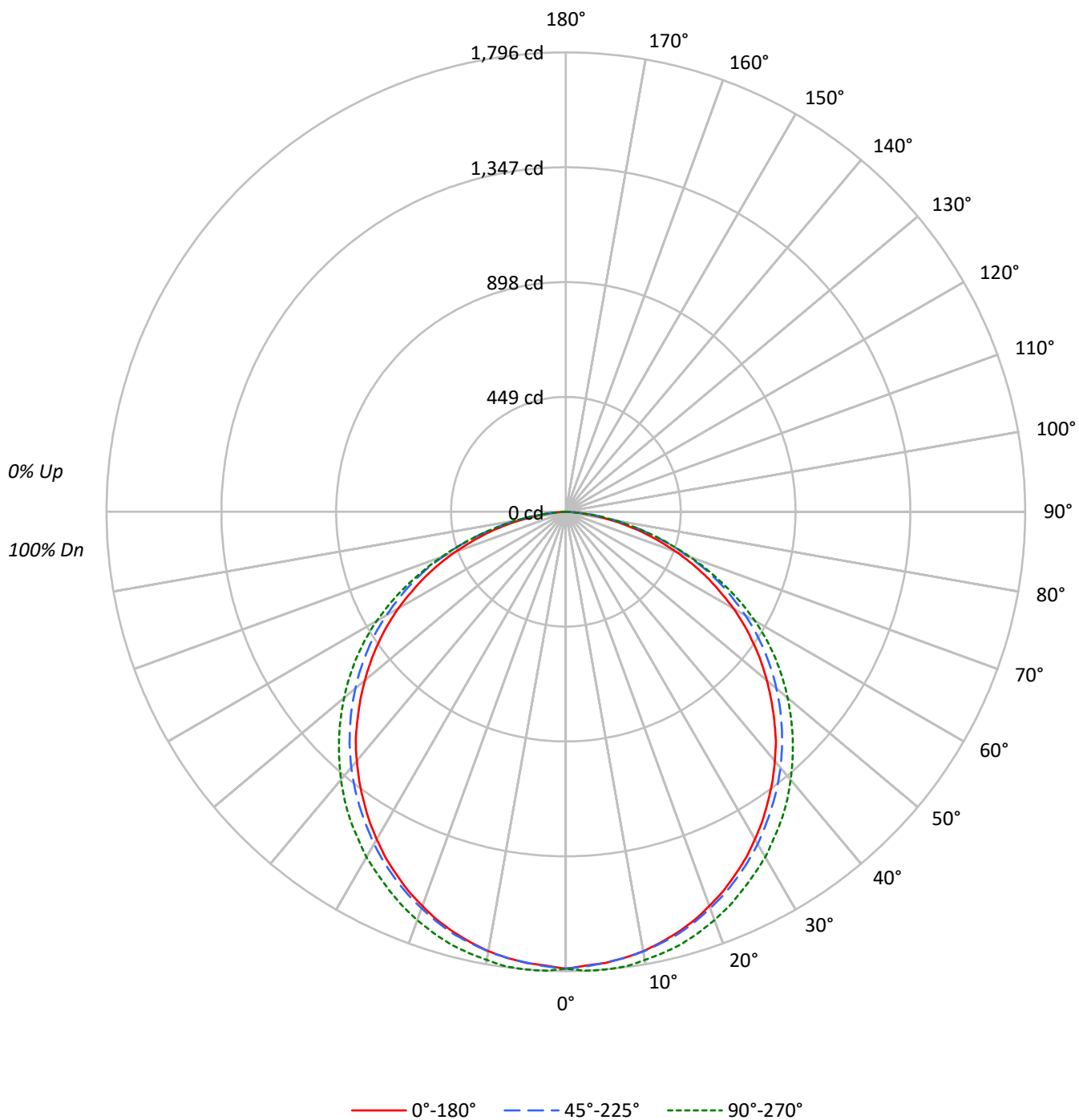
Lumens per Lamp: N/A
Luminaire Lumens: 5145.0 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	6018	6018	6018
5°	5990	5985	6076
10°	5968	5973	6088
15°	5932	5955	6102
20°	5880	5916	6091
25°	5822	5878	6072
30°	5752	5837	6066
35°	5673	5784	6046
40°	5593	5741	6015
45°	5490	5690	5979
50°	5378	5634	5934
55°	5257	5563	5879
60°	5100	5463	5758
65°	4868	5324	5498
70°	4540	5021	5103
75°	4050	4532	4576
80°	3297	3819	3786
85°	2146	2668	2080

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5979 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	3.3
10°-20°	484.7	9.4
20°-30°	734.2	14.3
30°-40°	886.9	17.2
40°-50°	926.4	18.0
50°-60°	848.4	16.5
60°-70°	651.9	12.7
70°-80°	363.0	7.1
80°-90°	80.4	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°	1388.1	27.0
0°-40°	2275.0	44.2
0°-60°	4049.8	78.7
0°-90°	5145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1786	1786	1786	1786	1786	
5°	1771	1790	1769	1779	1796	168
15°	1700	1717	1707	1724	1749	480
25°	1566	1584	1581	1604	1633	722
35°	1379	1399	1406	1440	1470	863
45°	1152	1177	1194	1229	1255	889
55°	895	923	947	980	1001	800
65°	610	642	668	681	690	603
75°	311	343	348	348	352	330
85°	56	66	69	57	54	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1786.1	1786.1	1786.1	1786.1	1786.1
2.5°	1776.0	1792.9	1779.4	1784.5	1796.2
5°	1771.0	1789.5	1769.3	1779.4	1796.2
7.5°	1759.2	1776.0	1759.2	1771.0	1792.9
10°	1744.1	1762.6	1745.8	1757.5	1779.4
12.5°	1723.9	1739.0	1727.3	1744.1	1766.0
15°	1700.4	1717.2	1707.1	1723.9	1749.1
17.5°	1673.5	1688.6	1680.2	1702.0	1725.6
20°	1639.8	1656.6	1649.9	1671.8	1698.7
22.5°	1606.2	1623.0	1618.0	1639.8	1668.4
25°	1565.8	1584.3	1581.0	1604.5	1633.1
27.5°	1525.5	1544.0	1542.3	1569.2	1596.1
30°	1478.4	1496.9	1500.2	1528.8	1559.1
32.5°	1431.3	1451.4	1453.1	1485.1	1513.7
35°	1379.1	1399.3	1406.0	1439.7	1469.9
37.5°	1327.0	1347.2	1357.3	1389.2	1421.2
40°	1271.5	1293.4	1305.1	1338.8	1367.4
42.5°	1216.0	1237.9	1251.3	1284.9	1311.9
45°	1152.1	1177.3	1194.1	1229.4	1254.7
47.5°	1089.8	1116.8	1135.3	1168.9	1194.1
50°	1025.9	1054.5	1074.7	1108.3	1131.9
52.5°	962.0	992.3	1012.5	1044.4	1068.0
55°	894.8	923.3	946.9	980.5	1000.7
57.5°	827.5	856.1	881.3	911.6	930.1
60°	756.8	787.1	810.7	840.9	854.4
62.5°	682.8	714.8	738.3	761.9	773.7
65°	610.5	642.5	667.7	681.2	689.6
67.5°	536.5	568.5	592.0	598.7	603.8
70°	460.8	492.8	509.6	513.0	518.0
72.5°	385.1	417.1	430.6	430.6	432.2
75°	311.1	343.1	348.1	348.1	351.5
77.5°	238.8	267.4	270.8	270.8	270.8
80°	169.9	191.7	196.8	196.8	195.1
82.5°	107.6	122.8	131.2	124.5	121.1
85°	55.5	65.6	69.0	57.2	53.8
87.5°	16.8	20.2	16.8	10.1	8.4
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	17.98	19.63	18.35	19.94	20.26	18.49	20.13	18.85	20.45	20.76
	3H	19.75	21.24	20.13	21.57	21.93	20.28	21.77	20.66	22.10	22.46
	4H	20.37	21.78	20.77	22.13	22.50	20.91	22.32	21.31	22.67	23.04
	6H	20.78	22.08	21.19	22.44	22.83	21.34	22.64	21.75	23.00	23.39
	8H	20.88	22.12	21.30	22.51	22.91	21.44	22.68	21.87	23.07	23.47
	12H	20.92	22.11	21.35	22.49	22.92	21.48	22.67	21.91	23.05	23.48
4H	2H	18.70	20.11	19.10	20.45	20.83	19.10	20.50	19.50	20.85	21.22
	3H	20.69	21.87	21.10	22.27	22.67	21.11	22.29	21.52	22.68	23.08
	4H	21.45	22.52	21.88	22.93	23.36	21.86	22.93	22.29	23.34	23.77
	6H	21.97	22.90	22.43	23.34	23.80	22.40	23.33	22.85	23.77	24.22
	8H	22.11	22.98	22.57	23.42	23.88	22.54	23.41	23.00	23.85	24.32
	12H	22.18	22.96	22.66	23.44	23.91	22.61	23.39	23.09	23.86	24.33
8H	4H	21.78	22.65	22.24	23.10	23.56	22.15	23.02	22.61	23.46	23.92
	6H	22.42	23.14	22.91	23.63	24.10	22.79	23.51	23.28	24.00	24.47
	8H	22.61	23.26	23.12	23.76	24.25	22.98	23.63	23.49	24.14	24.62
	12H	22.73	23.30	23.24	23.79	24.35	23.09	23.66	23.60	24.15	24.71
12H	4H	21.82	22.60	22.30	23.07	23.54	22.17	22.95	22.65	23.43	23.90
	6H	22.47	23.12	22.98	23.62	24.11	22.83	23.48	23.34	23.98	24.47
	8H	22.71	23.28	23.22	23.77	24.33	23.07	23.64	23.58	24.13	24.69