

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: P1584686

Luminaire Tested: 14CZSP-A-54HE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584686
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-L940-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

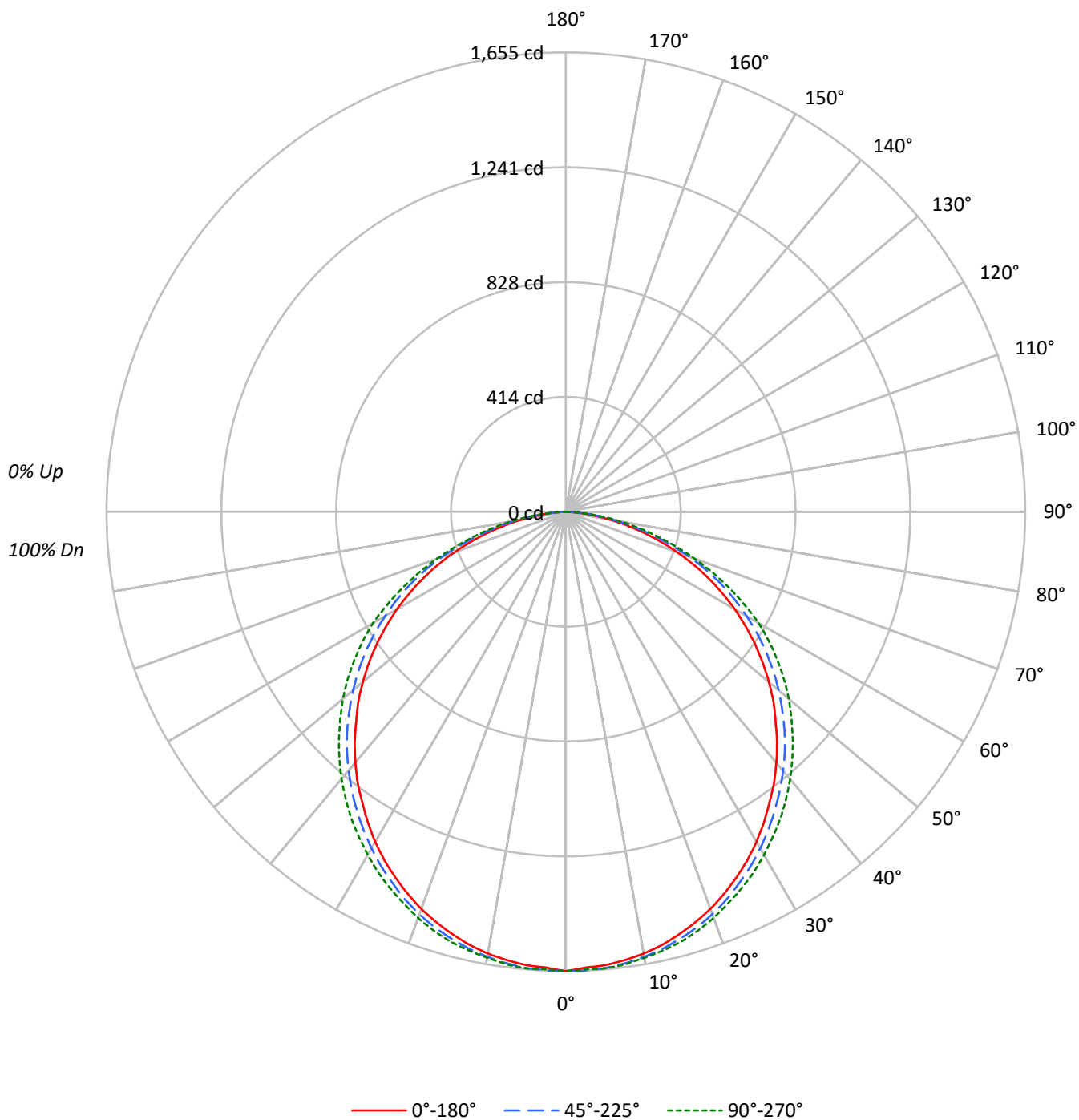
Lumens per Lamp: N/A
Luminaire Lumens: 4785.0 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5577	5577	5577
5°	5546	5582	5586
10°	5531	5572	5584
15°	5499	5555	5594
20°	5460	5533	5584
25°	5405	5491	5567
30°	5344	5448	5555
35°	5258	5400	5545
40°	5189	5357	5530
45°	5091	5310	5508
50°	5006	5246	5497
55°	4887	5172	5462
60°	4737	5069	5406
65°	4526	4931	5183
70°	4219	4656	4864
75°	3769	4200	4438
80°	3089	3539	3881
85°	2068	2586	2888

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5508 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.8	3.3
10°-20°	449.4	9.4
20°-30°	680.5	14.2
30°-40°	821.7	17.2
40°-50°	858.8	17.9
50°-60°	786.9	16.4
60°-70°	607.5	12.7
70°-80°	341.7	7.1
80°-90°	81.7	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°	1286.6	26.9
0°-40°	2108.4	44.1
0°-60°	3754.1	78.5
0°-90°	4785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4785.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1655	1655	1655	1655	1655	
5°	1640	1652	1650	1652	1652	156
15°	1576	1589	1592	1599	1604	445
25°	1454	1466	1477	1485	1497	670
35°	1278	1294	1313	1330	1348	801
45°	1068	1090	1114	1137	1156	826
55°	832	854	880	908	930	743
65°	568	592	618	643	650	561
75°	290	316	323	336	341	307
85°	54	61	67	73	75	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1655.1	1655.1	1655.1	1655.1	1655.1
2.5°	1643.9	1656.5	1653.7	1658.0	1650.2
5°	1639.6	1651.6	1650.2	1651.6	1651.6
7.5°	1629.1	1641.8	1641.0	1643.2	1644.6
10°	1616.4	1628.4	1628.4	1630.5	1631.9
12.5°	1598.8	1611.5	1612.9	1616.4	1619.2
15°	1576.3	1588.9	1592.5	1598.8	1603.7
17.5°	1550.9	1564.3	1569.9	1576.3	1582.6
20°	1522.7	1534.7	1543.1	1548.1	1557.2
22.5°	1489.6	1503.0	1512.2	1517.1	1527.0
25°	1453.7	1466.4	1476.9	1484.7	1497.4
27.5°	1415.7	1428.3	1441.0	1450.2	1465.0
30°	1373.4	1386.8	1400.2	1414.3	1427.6
32.5°	1327.6	1343.1	1357.9	1373.4	1388.2
35°	1278.3	1294.5	1312.8	1330.4	1348.1
37.5°	1232.5	1247.3	1266.4	1285.4	1303.0
40°	1179.7	1195.9	1217.8	1238.9	1257.2
42.5°	1126.2	1143.8	1167.8	1188.2	1207.9
45°	1068.4	1089.6	1114.2	1136.8	1155.8
47.5°	1014.9	1033.2	1057.9	1082.5	1102.2
50°	955.0	975.5	1000.8	1026.9	1048.7
52.5°	894.5	915.6	941.7	967.7	990.3
55°	831.8	853.6	880.4	907.9	929.7
57.5°	767.7	790.9	818.4	845.9	867.7
60°	702.9	726.1	752.2	782.5	802.2
62.5°	635.3	661.3	686.0	714.2	726.1
65°	567.7	592.3	618.4	643.0	650.1
67.5°	498.7	524.0	547.3	563.5	572.6
70°	428.2	455.7	472.6	488.1	493.7
72.5°	358.5	386.0	395.8	410.6	416.2
75°	289.5	316.2	322.6	336.0	340.9
77.5°	222.6	247.2	249.3	264.8	269.0
80°	159.2	178.9	182.4	197.2	200.0
82.5°	102.1	116.2	121.1	133.8	138.0
85°	53.5	61.3	66.9	73.2	74.7
87.5°	17.6	21.8	18.3	19.0	17.6
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	17.68	19.33	18.05	19.65	19.96	18.22	19.87	18.59	20.19	20.50
	3H	19.46	20.95	19.84	21.28	21.64	20.08	21.57	20.46	21.90	22.26
	4H	20.09	21.49	20.48	21.84	22.22	20.75	22.16	21.15	22.50	22.88
	6H	20.49	21.80	20.90	22.16	22.55	21.23	22.53	21.64	22.89	23.29
	8H	20.60	21.84	21.02	22.23	22.63	21.37	22.62	21.80	23.01	23.41
	12H	20.65	21.84	21.08	22.22	22.65	21.45	22.65	21.88	23.03	23.46
4H	2H	18.41	19.81	18.81	20.16	20.54	18.83	20.24	19.23	20.58	20.96
	3H	20.40	21.58	20.81	21.98	22.38	20.90	22.08	21.31	22.48	22.88
	4H	21.16	22.23	21.59	22.64	23.08	21.70	22.77	22.13	23.18	23.61
	6H	21.69	22.62	22.14	23.06	23.52	22.30	23.23	22.75	23.67	24.13
	8H	21.83	22.70	22.29	23.14	23.61	22.49	23.37	22.95	23.81	24.27
	12H	21.91	22.69	22.39	23.17	23.63	22.61	23.40	23.09	23.87	24.34
8H	4H	21.50	22.37	21.96	22.81	23.28	21.97	22.85	22.43	23.29	23.75
	6H	22.14	22.86	22.63	23.35	23.83	22.69	23.41	23.18	23.90	24.37
	8H	22.34	22.99	22.85	23.49	23.98	22.94	23.59	23.45	24.10	24.59
	12H	22.47	23.04	22.97	23.53	24.09	23.13	23.70	23.63	24.19	24.75
12H	4H	21.53	22.32	22.01	22.79	23.26	22.00	22.78	22.48	23.26	23.73
	6H	22.19	22.84	22.70	23.35	23.84	22.72	23.38	23.23	23.88	24.37
	8H	22.44	23.02	22.95	23.51	24.07	23.03	23.61	23.54	24.10	24.66