

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: P1584396

Luminaire Tested: 14CZSP-54VHE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584396
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-54VHE-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 5200 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

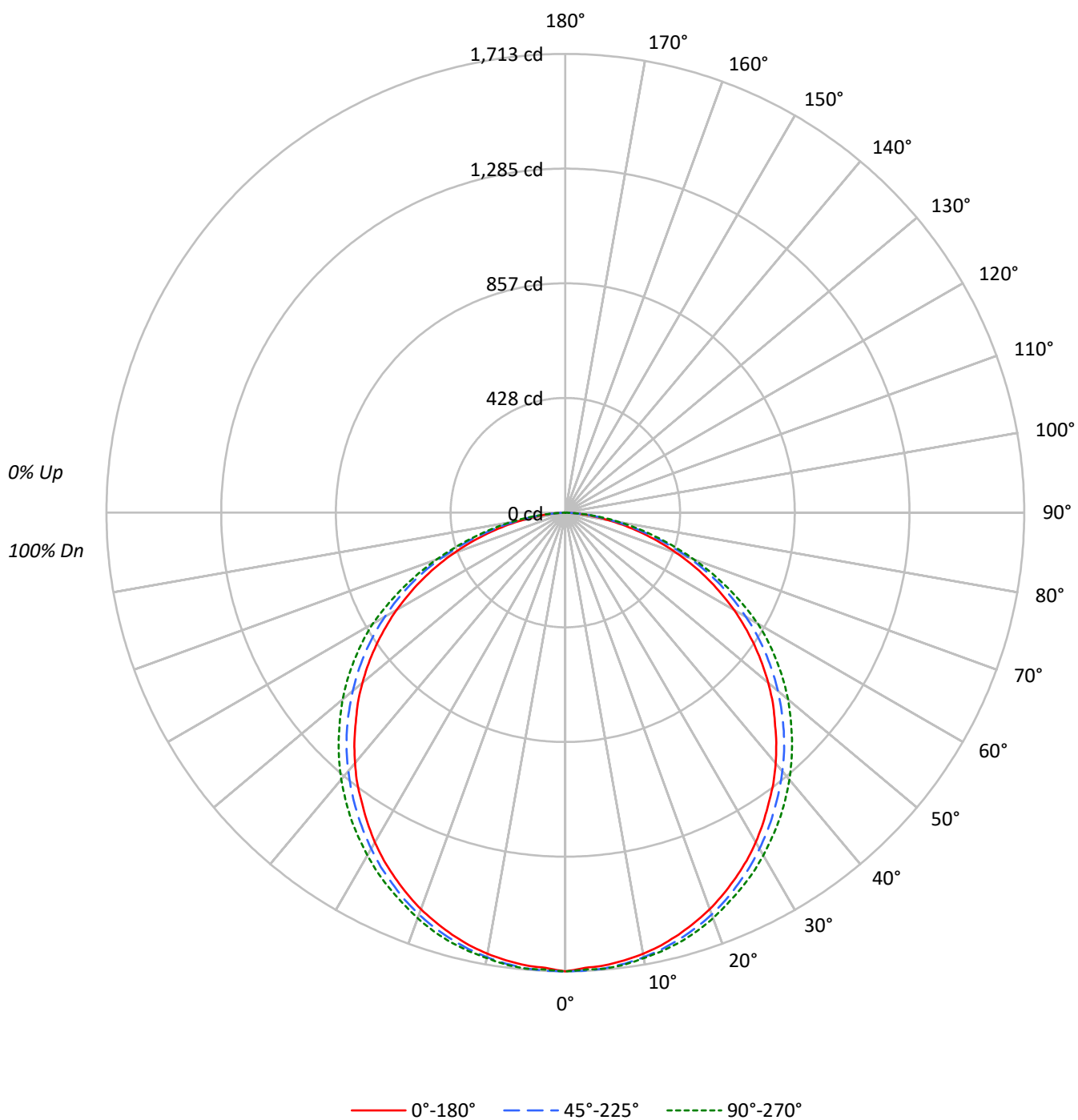
Lumens per Lamp: N/A
Luminaire Lumens: 4953.0 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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°	5773	5773	5773
5°	5741	5778	5783
10°	5725	5767	5780
15°	5692	5750	5791
20°	5652	5728	5780
25°	5594	5684	5762
30°	5531	5639	5750
35°	5443	5590	5740
40°	5371	5545	5724
45°	5270	5496	5701
50°	5182	5431	5690
55°	5058	5354	5653
60°	4903	5247	5596
65°	4685	5104	5365
70°	4367	4820	5035
75°	3901	4347	4594
80°	3198	3664	4017
85°	2142	2679	2989

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5701 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	3.3
10°-20°	465.2	9.4
20°-30°	704.4	14.2
30°-40°	850.6	17.2
40°-50°	888.9	17.9
50°-60°	814.6	16.4
60°-70°	628.8	12.7
70°-80°	353.7	7.1
80°-90°	84.6	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°	1331.8	26.9
0°-40°	2182.4	44.1
0°-60°	3885.9	78.5
0°-90°	4953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1713	1713	1713	1713	1713	
5°	1697	1710	1708	1710	1710	161
15°	1632	1645	1648	1655	1660	460
25°	1505	1518	1529	1537	1550	693
35°	1323	1340	1359	1377	1395	829
45°	1106	1128	1153	1177	1196	855
55°	861	884	911	940	962	769
65°	588	613	640	666	673	581
75°	300	327	334	348	353	318
85°	55	63	69	76	77	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1713.2	1713.2	1713.2	1713.2	1713.2
2.5°	1701.6	1714.7	1711.8	1716.2	1708.1
5°	1697.2	1709.6	1708.1	1709.6	1709.6
7.5°	1686.3	1699.4	1698.7	1700.9	1702.3
10°	1673.1	1685.5	1685.5	1687.7	1689.2
12.5°	1654.9	1668.0	1669.5	1673.1	1676.1
15°	1631.6	1644.7	1648.4	1654.9	1660.0
17.5°	1605.3	1619.2	1625.0	1631.6	1638.2
20°	1576.2	1588.6	1597.3	1602.4	1611.9
22.5°	1541.9	1555.8	1565.3	1570.4	1580.6
25°	1504.7	1517.9	1528.8	1536.8	1549.9
27.5°	1465.4	1478.5	1491.6	1501.1	1516.4
30°	1421.6	1435.5	1449.3	1463.9	1477.8
32.5°	1374.2	1390.3	1405.6	1421.6	1436.9
35°	1323.2	1340.0	1358.9	1377.2	1395.4
37.5°	1275.8	1291.1	1310.8	1330.5	1348.7
40°	1221.1	1237.9	1260.5	1282.4	1301.3
42.5°	1165.7	1184.0	1208.8	1229.9	1250.3
45°	1106.0	1127.8	1153.3	1176.7	1196.4
47.5°	1050.5	1069.5	1095.0	1120.5	1140.9
50°	988.6	1009.7	1036.0	1062.9	1085.5
52.5°	925.9	947.8	974.7	1001.7	1025.0
55°	861.0	883.6	911.3	939.7	962.3
57.5°	794.7	818.7	847.1	875.6	898.2
60°	727.6	751.6	778.6	810.0	830.4
62.5°	657.6	684.6	710.1	739.2	751.6
65°	587.6	613.1	640.1	665.6	672.9
67.5°	516.2	542.4	566.5	583.2	592.7
70°	443.3	471.7	489.2	505.2	511.1
72.5°	371.1	399.5	409.7	425.0	430.9
75°	299.6	327.3	333.9	347.8	352.9
77.5°	230.4	255.9	258.1	274.1	278.5
80°	164.8	185.2	188.8	204.1	207.0
82.5°	105.7	120.3	125.4	138.5	142.9
85°	55.4	63.4	69.3	75.8	77.3
87.5°	18.2	22.6	19.0	19.7	18.2
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	17.80	19.45	18.17	19.77	20.08	18.34	19.99	18.71	20.31	20.62
	3H	19.58	21.07	19.96	21.40	21.76	20.20	21.69	20.58	22.02	22.38
	4H	20.21	21.61	20.60	21.96	22.34	20.87	22.28	21.27	22.62	23.00
	6H	20.61	21.92	21.02	22.28	22.67	21.35	22.65	21.76	23.01	23.41
	8H	20.72	21.96	21.14	22.35	22.75	21.49	22.74	21.92	23.13	23.53
	12H	20.77	21.96	21.20	22.34	22.77	21.57	22.77	22.00	23.15	23.58
4H	2H	18.53	19.93	18.93	20.28	20.66	18.95	20.36	19.35	20.70	21.08
	3H	20.52	21.70	20.93	22.10	22.50	21.02	22.20	21.43	22.60	23.00
	4H	21.28	22.35	21.71	22.76	23.20	21.82	22.89	22.25	23.30	23.73
	6H	21.81	22.74	22.26	23.18	23.64	22.42	23.35	22.87	23.79	24.25
	8H	21.95	22.82	22.41	23.26	23.73	22.61	23.49	23.07	23.93	24.39
	12H	22.03	22.81	22.51	23.29	23.75	22.73	23.52	23.21	23.99	24.46
8H	4H	21.62	22.49	22.08	22.93	23.40	22.09	22.97	22.55	23.41	23.87
	6H	22.26	22.98	22.75	23.47	23.95	22.81	23.53	23.30	24.02	24.49
	8H	22.46	23.11	22.97	23.61	24.10	23.06	23.71	23.57	24.22	24.71
	12H	22.59	23.16	23.09	23.65	24.21	23.25	23.82	23.75	24.31	24.87
12H	4H	21.65	22.44	22.13	22.91	23.38	22.12	22.90	22.60	23.38	23.85
	6H	22.31	22.96	22.82	23.47	23.96	22.84	23.50	23.35	24.00	24.49
	8H	22.56	23.14	23.07	23.63	24.19	23.15	23.73	23.66	24.22	24.78

END OF REPORT