

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: P1584356

Luminaire Tested: 14CZSP-52-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584356
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-52-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4500 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

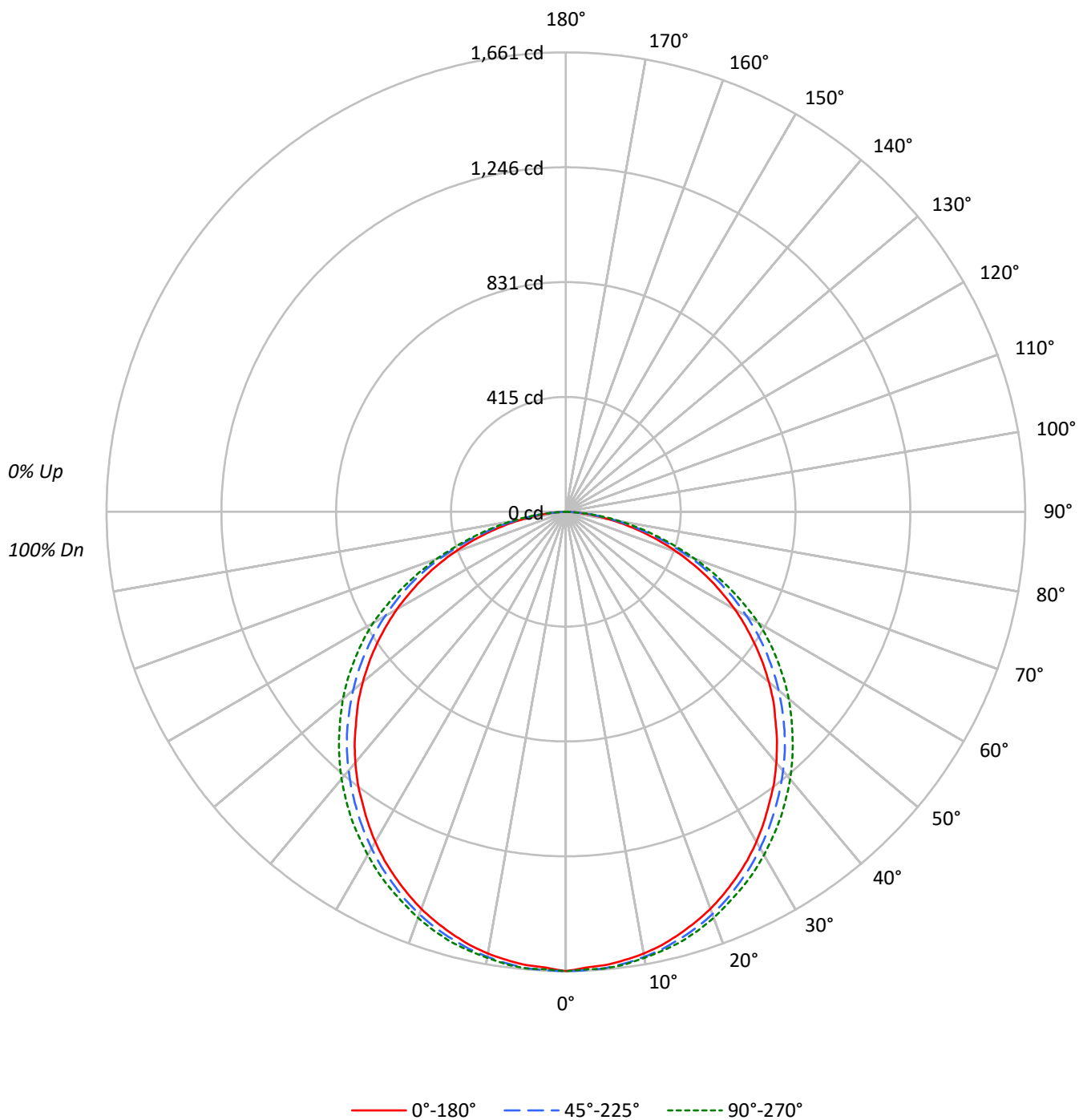
Lumens per Lamp: N/A
Luminaire Lumens: 4802.0 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.9
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

TEST NUMBER: P1584356

CATALOG NUMBER: 14CZSP-52-L840-S

Luminous Intensity Polar Plot



TEST NUMBER: P1584356

CATALOG NUMBER: 14CZSP-52-L840-S

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°	5597	5597	5597
5°	5566	5602	5606
10°	5550	5592	5603
15°	5518	5575	5614
20°	5480	5553	5604
25°	5424	5511	5587
30°	5363	5467	5574
35°	5277	5420	5565
40°	5208	5376	5550
45°	5109	5329	5527
50°	5024	5265	5517
55°	4904	5190	5481
60°	4754	5087	5426
65°	4542	4948	5202
70°	4233	4673	4882
75°	3782	4214	4454
80°	3099	3553	3895
85°	2076	2594	2896

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5527 cd/sqm

TEST NUMBER: P1584356

CATALOG NUMBER: 14CZSP-52-L840-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.3	3.3
10°-20°	451.0	9.4
20°-30°	682.9	14.2
30°-40°	824.7	17.2
40°-50°	861.8	17.9
50°-60°	789.7	16.4
60°-70°	609.6	12.7
70°-80°	342.9	7.1
80°-90°	82.0	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°	1291.2	26.9
0°-40°	2115.9	44.1
0°-60°	3767.4	78.5
0°-90°	4802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1661	1661	1661	1661	1661	
5°	1646	1658	1656	1658	1658	156
15°	1582	1595	1598	1604	1609	446
25°	1459	1472	1482	1490	1503	672
35°	1283	1299	1318	1335	1353	804
45°	1072	1093	1118	1141	1160	829
55°	835	857	884	911	933	746
65°	570	594	621	645	652	563
75°	290	317	324	337	342	308
85°	54	62	67	74	75	69
90°	0	0	0	0	0	

TEST NUMBER: P1584356

CATALOG NUMBER: 14CZSP-52-L840-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1661.0	1661.0	1661.0	1661.0	1661.0
2.5°	1649.7	1662.4	1659.6	1663.8	1656.1
5°	1645.5	1657.5	1656.1	1657.5	1657.5
7.5°	1634.9	1647.6	1646.9	1649.0	1650.4
10°	1622.1	1634.2	1634.2	1636.3	1637.7
12.5°	1604.5	1617.2	1618.6	1622.1	1625.0
15°	1581.9	1594.6	1598.1	1604.5	1609.4
17.5°	1556.4	1569.8	1575.5	1581.9	1588.2
20°	1528.1	1540.2	1548.6	1553.6	1562.8
22.5°	1494.9	1508.3	1517.5	1522.5	1532.4
25°	1458.9	1471.6	1482.2	1490.0	1502.7
27.5°	1420.7	1433.4	1446.1	1455.3	1470.2
30°	1378.3	1391.7	1405.1	1419.3	1432.7
32.5°	1332.3	1347.9	1362.7	1378.3	1393.1
35°	1282.9	1299.1	1317.5	1335.2	1352.8
37.5°	1236.9	1251.8	1270.9	1289.9	1307.6
40°	1183.9	1200.2	1222.1	1243.3	1261.7
42.5°	1130.2	1147.9	1171.9	1192.4	1212.2
45°	1072.2	1093.4	1118.2	1140.8	1159.9
47.5°	1018.5	1036.9	1061.6	1086.4	1106.2
50°	958.4	978.9	1004.4	1030.5	1052.4
52.5°	897.7	918.9	945.0	971.2	993.8
55°	834.7	856.7	883.5	911.1	933.0
57.5°	770.4	793.8	821.3	848.9	870.8
60°	705.4	728.7	754.9	785.3	805.1
62.5°	637.5	663.7	688.4	716.7	728.7
65°	569.7	594.4	620.6	645.3	652.4
67.5°	500.4	525.9	549.2	565.5	574.6
70°	429.7	457.3	474.3	489.8	495.5
72.5°	359.8	387.3	397.2	412.1	417.7
75°	290.5	317.4	323.7	337.2	342.1
77.5°	223.4	248.1	250.2	265.8	270.0
80°	159.7	179.5	183.1	197.9	200.7
82.5°	102.5	116.6	121.6	134.3	138.5
85°	53.7	61.5	67.1	73.5	74.9
87.5°	17.7	21.9	18.4	19.1	17.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584356

CATALOG NUMBER: 14CZSP-52-L840-S

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	17.70	19.35	18.06	19.66	19.97	18.24	19.89	18.60	20.20	20.51
	3H	19.47	20.97	19.85	21.29	21.65	20.09	21.59	20.47	21.91	22.27
	4H	20.10	21.51	20.50	21.85	22.23	20.76	22.17	21.16	22.52	22.89
	6H	20.51	21.81	20.92	22.18	22.57	21.24	22.54	21.65	22.91	23.30
	8H	20.61	21.86	21.03	22.25	22.64	21.38	22.63	21.81	23.02	23.42
	12H	20.66	21.85	21.09	22.24	22.66	21.47	22.66	21.90	23.04	23.47
4H	2H	18.42	19.83	18.82	20.17	20.55	18.84	20.25	19.24	20.60	20.97
	3H	20.41	21.60	20.82	21.99	22.39	20.91	22.09	21.32	22.49	22.89
	4H	21.17	22.24	21.60	22.65	23.09	21.71	22.78	22.14	23.19	23.63
	6H	21.70	22.63	22.15	23.07	23.53	22.31	23.25	22.77	23.69	24.14
	8H	21.84	22.71	22.30	23.16	23.62	22.50	23.38	22.96	23.82	24.28
	12H	21.92	22.70	22.40	23.18	23.65	22.63	23.41	23.10	23.89	24.35
8H	4H	21.51	22.38	21.97	22.82	23.29	21.99	22.86	22.45	23.30	23.77
	6H	22.15	22.88	22.64	23.36	23.84	22.70	23.43	23.19	23.91	24.39
	8H	22.35	23.00	22.86	23.51	23.99	22.96	23.61	23.46	24.11	24.60
	12H	22.48	23.05	22.98	23.54	24.10	23.14	23.71	23.64	24.20	24.76
12H	4H	21.55	22.33	22.03	22.81	23.28	22.01	22.80	22.49	23.27	23.74
	6H	22.20	22.86	22.71	23.36	23.85	22.74	23.39	23.24	23.89	24.38
	8H	22.46	23.03	22.96	23.52	24.08	23.04	23.62	23.55	24.11	24.67