

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: P1584357

Luminaire Tested: 14CZSP-52-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-724-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-52-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4500 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

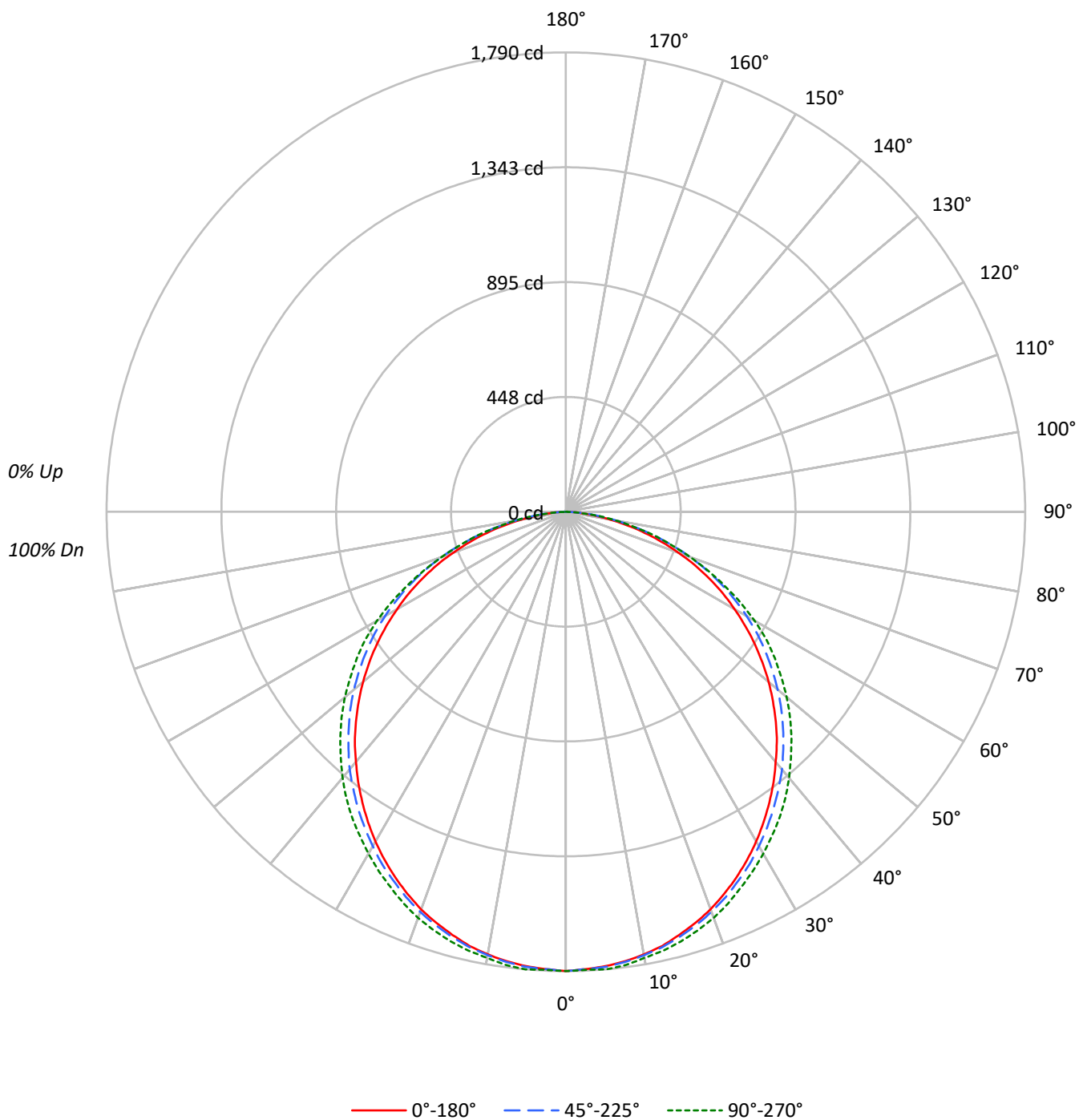
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5164.0 lumens
Efficiency: N/A
Efficacy: 139.9 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

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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	53		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	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°	6031	6031	6031
5°	6012	6022	6054
10°	5993	6003	6040
15°	5955	5982	6045
20°	5912	5951	6039
25°	5846	5903	6005
30°	5772	5855	5986
35°	5686	5806	5976
40°	5596	5764	5953
45°	5515	5705	5924
50°	5409	5650	5891
55°	5280	5576	5837
60°	5117	5489	5726
65°	4919	5334	5444
70°	4616	5068	5068
75°	4145	4604	4624
80°	3417	3893	3893
85°	2366	2842	2486

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5924 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	3.3
10°-20°	485.5	9.4
20°-30°	734.8	14.2
30°-40°	887.1	17.2
40°-50°	926.8	17.9
50°-60°	849.0	16.4
60°-70°	654.6	12.7
70°-80°	369.3	7.2
80°-90°	87.4	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°	1389.8	26.9
0°-40°	2276.9	44.1
0°-60°	4052.7	78.5
0°-90°	5164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1790	1790	1790	1790	1790	
5°	1777	1790	1780	1784	1790	169
15°	1707	1718	1715	1728	1733	482
25°	1572	1586	1588	1609	1615	724
35°	1382	1401	1412	1442	1453	865
45°	1157	1177	1197	1232	1243	892
55°	899	922	949	984	994	803
65°	617	637	669	692	683	610
75°	318	343	354	363	355	338
85°	61	69	74	78	64	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1789.7	1789.7	1789.7	1789.7	1789.7
2.5°	1783.6	1795.8	1783.6	1789.7	1786.6
5°	1777.4	1789.7	1780.5	1783.6	1789.7
7.5°	1766.7	1779.0	1769.8	1774.4	1782.0
10°	1751.4	1763.6	1754.5	1762.1	1765.2
12.5°	1733.0	1743.7	1737.6	1746.8	1751.4
15°	1707.0	1717.7	1714.7	1728.4	1733.0
17.5°	1679.4	1691.7	1688.6	1705.5	1710.1
20°	1648.8	1659.5	1659.5	1674.9	1684.0
22.5°	1612.1	1624.3	1625.9	1642.7	1651.9
25°	1572.3	1586.1	1587.6	1609.0	1615.1
27.5°	1529.4	1543.2	1549.3	1572.3	1578.4
30°	1483.5	1497.3	1504.9	1530.9	1538.6
32.5°	1434.5	1451.3	1459.0	1488.1	1495.7
35°	1382.4	1400.8	1411.5	1442.2	1452.9
37.5°	1328.9	1347.2	1361.0	1393.2	1405.4
40°	1272.2	1292.1	1310.5	1342.6	1353.4
42.5°	1217.1	1237.0	1253.8	1287.5	1298.2
45°	1157.4	1177.3	1197.2	1232.4	1243.1
47.5°	1094.6	1116.1	1139.0	1171.2	1185.0
50°	1031.9	1053.3	1077.8	1111.5	1123.7
52.5°	966.0	989.0	1013.5	1048.7	1057.9
55°	898.7	921.6	949.2	984.4	993.6
57.5°	829.8	854.3	883.4	917.0	926.2
60°	759.3	783.8	814.5	846.6	849.7
62.5°	690.5	711.9	742.5	773.1	768.5
65°	617.0	636.9	669.0	692.0	682.8
67.5°	543.5	564.9	594.0	610.8	598.6
70°	468.5	491.4	514.4	526.6	514.4
72.5°	393.5	417.9	434.8	442.4	431.7
75°	318.4	342.9	353.6	362.8	355.2
77.5°	246.5	269.4	274.0	284.8	274.0
80°	176.1	197.5	200.6	211.3	200.6
82.5°	113.3	127.1	133.2	142.4	131.7
85°	61.2	68.9	73.5	78.1	64.3
87.5°	21.4	24.5	21.4	18.4	7.7
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	17.96	19.60	18.32	19.92	20.23	18.50	20.15	18.86	20.46	20.78
	3H	19.74	21.24	20.12	21.56	21.92	20.31	21.80	20.68	22.12	22.48
	4H	20.38	21.79	20.78	22.14	22.51	20.95	22.36	21.35	22.71	23.08
	6H	20.81	22.11	21.22	22.48	22.87	21.39	22.70	21.80	23.06	23.45
	8H	20.91	22.16	21.34	22.55	22.95	21.51	22.76	21.94	23.15	23.55
	12H	20.97	22.16	21.40	22.55	22.97	21.57	22.77	22.00	23.15	23.58
4H	2H	18.68	20.09	19.08	20.44	20.81	19.11	20.51	19.50	20.86	21.24
	3H	20.69	21.87	21.10	22.27	22.67	21.14	22.32	21.55	22.72	23.12
	4H	21.46	22.52	21.89	22.94	23.37	21.92	22.99	22.35	23.40	23.84
	6H	22.00	22.93	22.45	23.37	23.83	22.49	23.42	22.94	23.86	24.32
	8H	22.15	23.02	22.61	23.46	23.93	22.66	23.53	23.12	23.97	24.44
	12H	22.23	23.02	22.71	23.49	23.96	22.75	23.53	23.23	24.01	24.48
8H	4H	21.80	22.67	22.26	23.11	23.58	22.21	23.08	22.67	23.53	23.99
	6H	22.46	23.18	22.95	23.67	24.15	22.89	23.62	23.39	24.11	24.58
	8H	22.66	23.31	23.17	23.82	24.31	23.13	23.78	23.63	24.28	24.77
	12H	22.80	23.38	23.31	23.87	24.43	23.28	23.85	23.78	24.34	24.90
12H	4H	21.84	22.62	22.32	23.10	23.56	22.24	23.02	22.72	23.50	23.97
	6H	22.51	23.17	23.02	23.67	24.16	22.93	23.59	23.44	24.09	24.58
	8H	22.77	23.35	23.28	23.84	24.40	23.22	23.79	23.72	24.28	24.84