

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: P1584661

Luminaire Tested: 14CZSP-A-52-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584661
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-A-52-L850
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

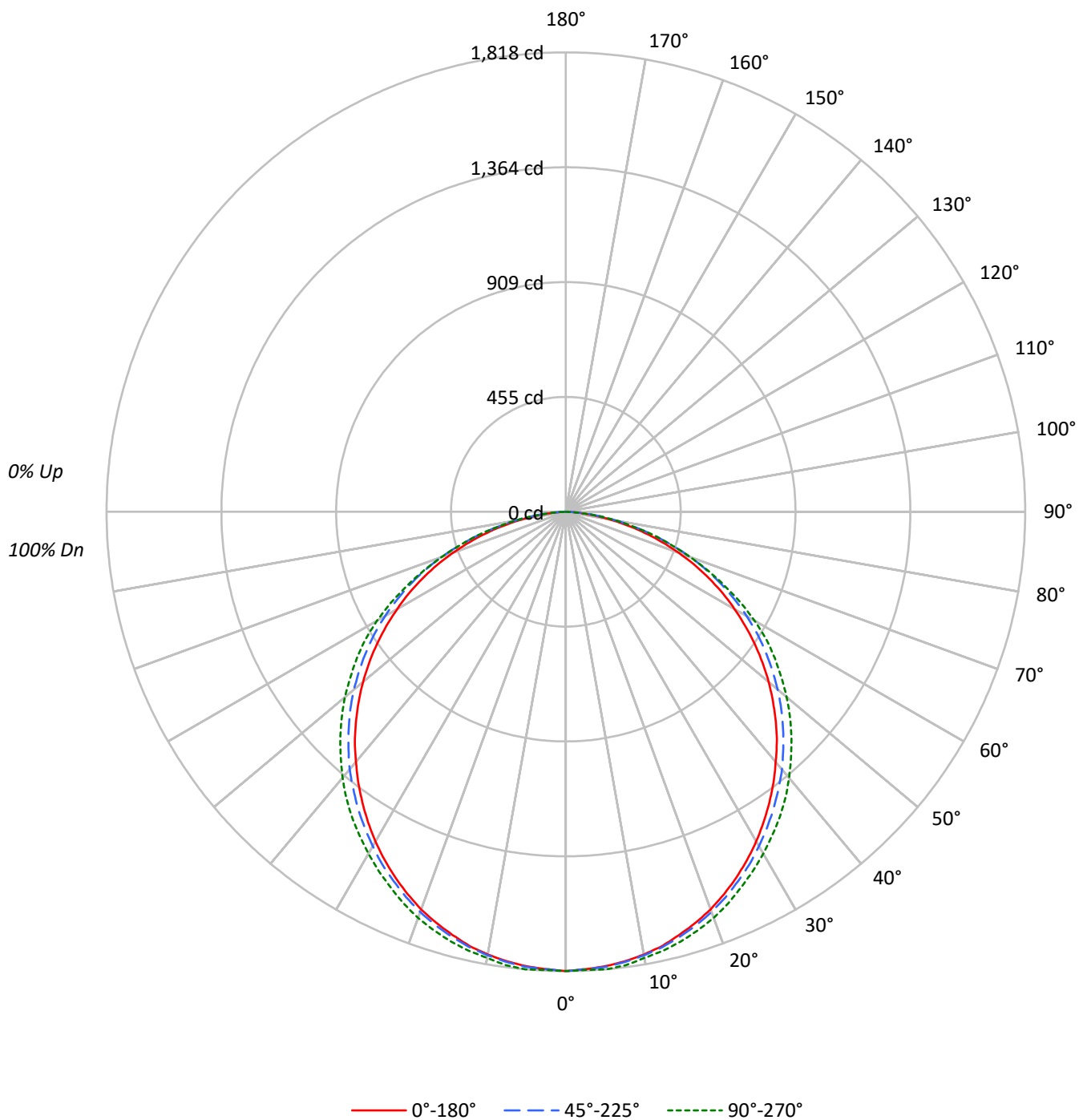
Lumens per Lamp: N/A
Luminaire Lumens: 5245.0 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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	53		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	29		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°	6125	6125	6125
5°	6106	6117	6148
10°	6087	6097	6135
15°	6048	6075	6140
20°	6005	6044	6134
25°	5937	5995	6099
30°	5863	5947	6080
35°	5776	5898	6070
40°	5684	5855	6046
45°	5602	5795	6017
50°	5494	5739	5983
55°	5362	5664	5929
60°	5198	5575	5816
65°	4996	5418	5529
70°	4688	5148	5148
75°	4210	4676	4697
80°	3470	3953	3953
85°	2405	2884	2525

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6017 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	3.3
10°-20°	493.1	9.4
20°-30°	746.3	14.2
30°-40°	901.0	17.2
40°-50°	941.3	17.9
50°-60°	862.3	16.4
60°-70°	664.8	12.7
70°-80°	375.1	7.2
80°-90°	88.8	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°	1411.6	26.9
0°-40°	2312.7	44.1
0°-60°	4116.3	78.5
0°-90°	5245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5245.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1805	1818	1808	1812	1818	171
15°	1734	1745	1742	1756	1760	489
25°	1597	1611	1612	1634	1640	736
35°	1404	1423	1434	1465	1476	878
45°	1176	1196	1216	1252	1263	906
55°	913	936	964	1000	1009	815
65°	627	647	680	703	694	619
75°	323	348	359	368	361	343
85°	62	70	75	79	65	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1817.7	1817.7	1817.7	1817.7	1817.7
2.5°	1811.5	1824.0	1811.5	1817.7	1814.6
5°	1805.3	1817.7	1808.4	1811.5	1817.7
7.5°	1794.4	1806.9	1797.5	1802.2	1810.0
10°	1778.9	1791.3	1782.0	1789.8	1792.9
12.5°	1760.2	1771.1	1764.9	1774.2	1778.9
15°	1733.8	1744.7	1741.6	1755.5	1760.2
17.5°	1705.8	1718.2	1715.1	1732.2	1736.9
20°	1674.7	1685.6	1685.6	1701.1	1710.5
22.5°	1637.4	1649.8	1651.4	1668.5	1677.8
25°	1596.9	1610.9	1612.5	1634.3	1640.5
27.5°	1553.4	1567.4	1573.6	1596.9	1603.2
30°	1506.8	1520.8	1528.5	1555.0	1562.7
32.5°	1457.0	1474.1	1481.9	1511.4	1519.2
35°	1404.1	1422.8	1433.7	1464.8	1475.7
37.5°	1349.7	1368.4	1382.4	1415.0	1427.5
40°	1292.2	1312.4	1331.0	1363.7	1374.6
42.5°	1236.2	1256.4	1273.5	1307.7	1318.6
45°	1175.5	1195.8	1216.0	1251.7	1262.6
47.5°	1111.8	1133.6	1156.9	1189.5	1203.5
50°	1048.0	1069.8	1094.7	1128.9	1141.3
52.5°	981.2	1004.5	1029.4	1065.1	1074.5
55°	912.8	936.1	964.1	999.8	1009.2
57.5°	842.8	867.7	897.2	931.4	940.8
60°	771.3	796.1	827.2	859.9	863.0
62.5°	701.3	723.1	754.2	785.3	780.6
65°	626.6	646.9	679.5	702.8	693.5
67.5°	552.0	573.8	603.3	620.4	608.0
70°	475.8	499.1	522.5	534.9	522.5
72.5°	399.6	424.5	441.6	449.4	438.5
75°	323.4	348.3	359.2	368.5	360.8
77.5°	250.3	273.7	278.3	289.2	278.3
80°	178.8	200.6	203.7	214.6	203.7
82.5°	115.1	129.1	135.3	144.6	133.7
85°	62.2	70.0	74.6	79.3	65.3
87.5°	21.8	24.9	21.8	18.7	7.8
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	18.01	19.66	18.37	19.97	20.29	18.55	20.20	18.92	20.52	20.83
	3H	19.80	21.29	20.17	21.62	21.98	20.36	21.85	20.74	22.18	22.54
	4H	20.44	21.84	20.83	22.19	22.57	21.01	22.41	21.40	22.76	23.14
	6H	20.86	22.17	21.27	22.53	22.92	21.45	22.75	21.86	23.11	23.50
	8H	20.97	22.21	21.39	22.60	23.00	21.57	22.81	21.99	23.20	23.60
	12H	21.02	22.22	21.45	22.60	23.03	21.63	22.82	22.05	23.20	23.63
4H	2H	18.74	20.14	19.13	20.49	20.87	19.16	20.57	19.56	20.92	21.29
	3H	20.74	21.92	21.15	22.32	22.72	21.20	22.38	21.61	22.77	23.17
	4H	21.51	22.58	21.94	22.99	23.43	21.98	23.05	22.41	23.46	23.89
	6H	22.06	22.99	22.51	23.43	23.88	22.55	23.48	23.00	23.92	24.37
	8H	22.20	23.07	22.66	23.52	23.98	22.71	23.58	23.17	24.03	24.49
	12H	22.28	23.07	22.76	23.54	24.01	22.80	23.59	23.28	24.06	24.53
8H	4H	21.85	22.73	22.31	23.17	23.63	22.27	23.14	22.73	23.58	24.05
	6H	22.51	23.24	23.01	23.73	24.20	22.95	23.67	23.44	24.16	24.64
	8H	22.72	23.37	23.23	23.87	24.36	23.18	23.83	23.69	24.34	24.82
	12H	22.86	23.43	23.36	23.92	24.48	23.33	23.91	23.84	24.40	24.96
12H	4H	21.89	22.68	22.37	23.15	23.62	22.29	23.08	22.77	23.55	24.02
	6H	22.57	23.22	23.08	23.73	24.21	22.99	23.64	23.50	24.15	24.63
	8H	22.83	23.40	23.33	23.89	24.45	23.27	23.85	23.78	24.34	24.90