

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: P1584448

Luminaire Tested: 14CZSP-65-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584448
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-65-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6200 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

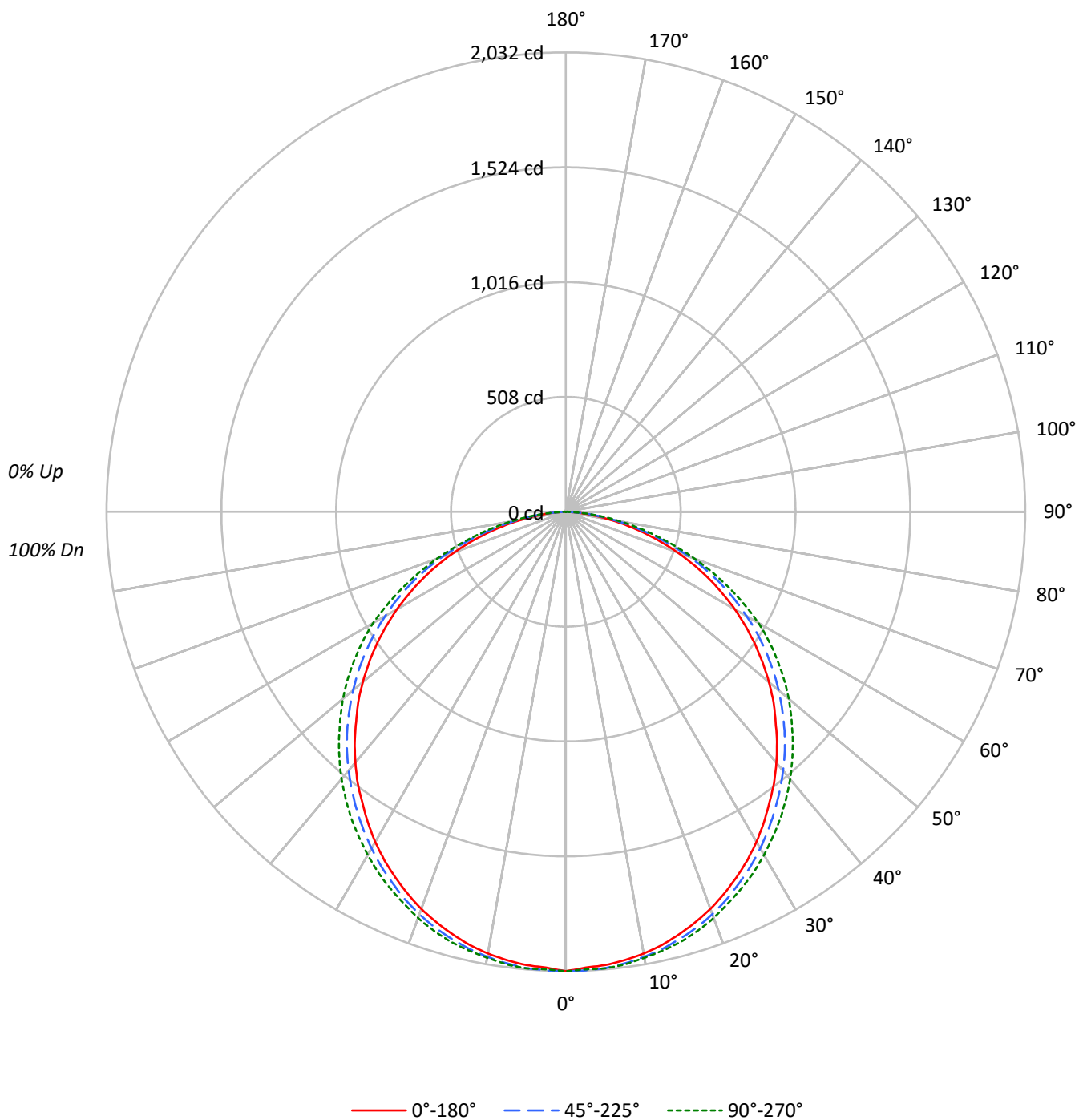
Lumens per Lamp: N/A
Luminaire Lumens: 5875.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 48.8
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°	6848	6848	6848
5°	6809	6853	6859
10°	6790	6841	6855
15°	6751	6821	6869
20°	6704	6794	6856
25°	6636	6742	6835
30°	6561	6689	6820
35°	6456	6631	6808
40°	6371	6577	6790
45°	6251	6519	6762
50°	6147	6442	6750
55°	6000	6350	6706
60°	5816	6224	6638
65°	5557	6054	6364
70°	5180	5716	5972
75°	4627	5157	5448
80°	3792	4347	4766
85°	2540	3178	3545

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6762 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.5	3.3
10°-20°	551.8	9.4
20°-30°	835.5	14.2
30°-40°	1008.9	17.2
40°-50°	1054.4	17.9
50°-60°	966.2	16.4
60°-70°	745.8	12.7
70°-80°	419.5	7.1
80°-90°	100.4	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°	1579.7	26.9
0°-40°	2588.6	44.1
0°-60°	4609.3	78.5
0°-90°	5875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2032	2032	2032	2032	2032	
5°	2013	2028	2026	2028	2028	191
15°	1935	1951	1955	1963	1969	546
25°	1785	1800	1813	1823	1838	823
35°	1570	1589	1612	1634	1655	983
45°	1312	1338	1368	1396	1419	1014
55°	1021	1048	1081	1115	1142	912
65°	697	727	759	790	798	689
75°	355	388	396	412	418	377
85°	66	75	82	90	92	84
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2032.2	2032.2	2032.2	2032.2	2032.2
2.5°	2018.3	2033.9	2030.4	2035.6	2026.1
5°	2013.1	2027.8	2026.1	2027.8	2027.8
7.5°	2000.2	2015.7	2014.9	2017.5	2019.2
10°	1984.6	1999.3	1999.3	2001.9	2003.6
12.5°	1963.0	1978.6	1980.3	1984.6	1988.1
15°	1935.3	1950.9	1955.2	1963.0	1969.0
17.5°	1904.2	1920.6	1927.5	1935.3	1943.1
20°	1869.6	1884.3	1894.7	1900.7	1912.0
22.5°	1829.0	1845.4	1856.6	1862.7	1874.8
25°	1784.8	1800.4	1813.4	1822.9	1838.5
27.5°	1738.2	1753.7	1769.3	1780.5	1798.7
30°	1686.3	1702.7	1719.1	1736.4	1752.9
32.5°	1630.1	1649.1	1667.2	1686.3	1704.4
35°	1569.5	1589.4	1611.9	1633.5	1655.1
37.5°	1513.3	1531.5	1554.8	1578.2	1599.8
40°	1448.5	1468.3	1495.2	1521.1	1543.6
42.5°	1382.7	1404.4	1433.8	1458.8	1483.0
45°	1311.8	1337.8	1368.0	1395.7	1419.1
47.5°	1246.1	1268.6	1298.9	1329.1	1353.3
50°	1172.6	1197.7	1228.8	1260.8	1287.6
52.5°	1098.2	1124.2	1156.2	1188.2	1215.8
55°	1021.3	1048.1	1080.9	1114.7	1141.5
57.5°	942.6	971.1	1004.8	1038.6	1065.4
60°	863.0	891.6	923.6	960.7	985.0
62.5°	780.0	812.0	842.3	876.9	891.6
65°	697.0	727.3	759.3	789.5	798.2
67.5°	612.2	643.4	671.9	691.8	703.0
70°	525.8	559.5	580.2	599.3	606.2
72.5°	440.2	473.9	486.0	504.2	511.1
75°	355.4	388.3	396.1	412.5	418.5
77.5°	273.3	303.5	306.1	325.1	330.3
80°	195.4	219.6	224.0	242.1	245.6
82.5°	125.4	142.7	148.7	164.3	169.5
85°	65.7	75.2	82.2	89.9	91.7
87.5°	21.6	26.8	22.5	23.3	21.6
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	18.40	20.05	18.76	20.36	20.68	18.94	20.59	19.30	20.90	21.22
	3H	20.17	21.67	20.55	21.99	22.35	20.79	22.29	21.17	22.61	22.97
	4H	20.80	22.21	21.20	22.55	22.93	21.46	22.87	21.86	23.22	23.59
	6H	21.21	22.51	21.62	22.88	23.27	21.94	23.24	22.35	23.61	24.00
	8H	21.31	22.56	21.73	22.95	23.34	22.08	23.33	22.51	23.72	24.12
	12H	21.36	22.56	21.79	22.94	23.37	22.17	23.36	22.60	23.74	24.17
4H	2H	19.12	20.53	19.52	20.88	21.25	19.54	20.95	19.94	21.30	21.67
	3H	21.12	22.30	21.52	22.69	23.09	21.61	22.80	22.02	23.19	23.59
	4H	21.87	22.94	22.30	23.35	23.79	22.41	23.48	22.84	23.89	24.33
	6H	22.40	23.33	22.85	23.77	24.23	23.01	23.95	23.47	24.39	24.84
	8H	22.54	23.41	23.00	23.86	24.32	23.20	24.08	23.66	24.52	24.99
	12H	22.62	23.40	23.10	23.88	24.35	23.33	24.11	23.81	24.59	25.05
8H	4H	22.21	23.08	22.67	23.53	23.99	22.69	23.56	23.15	24.00	24.47
	6H	22.85	23.58	23.34	24.06	24.54	23.40	24.13	23.89	24.61	25.09
	8H	23.05	23.70	23.56	24.21	24.69	23.66	24.31	24.17	24.81	25.30
	12H	23.18	23.75	23.69	24.24	24.80	23.84	24.41	24.34	24.90	25.46
12H	4H	22.25	23.03	22.73	23.51	23.98	22.71	23.50	23.19	23.97	24.44
	6H	22.91	23.56	23.41	24.06	24.55	23.44	24.09	23.94	24.59	25.08
	8H	23.16	23.73	23.66	24.22	24.78	23.74	24.32	24.25	24.81	25.37