

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: P1584733

Luminaire Tested: 14CZSP-A-65-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584733
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-65-L830
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 6200 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

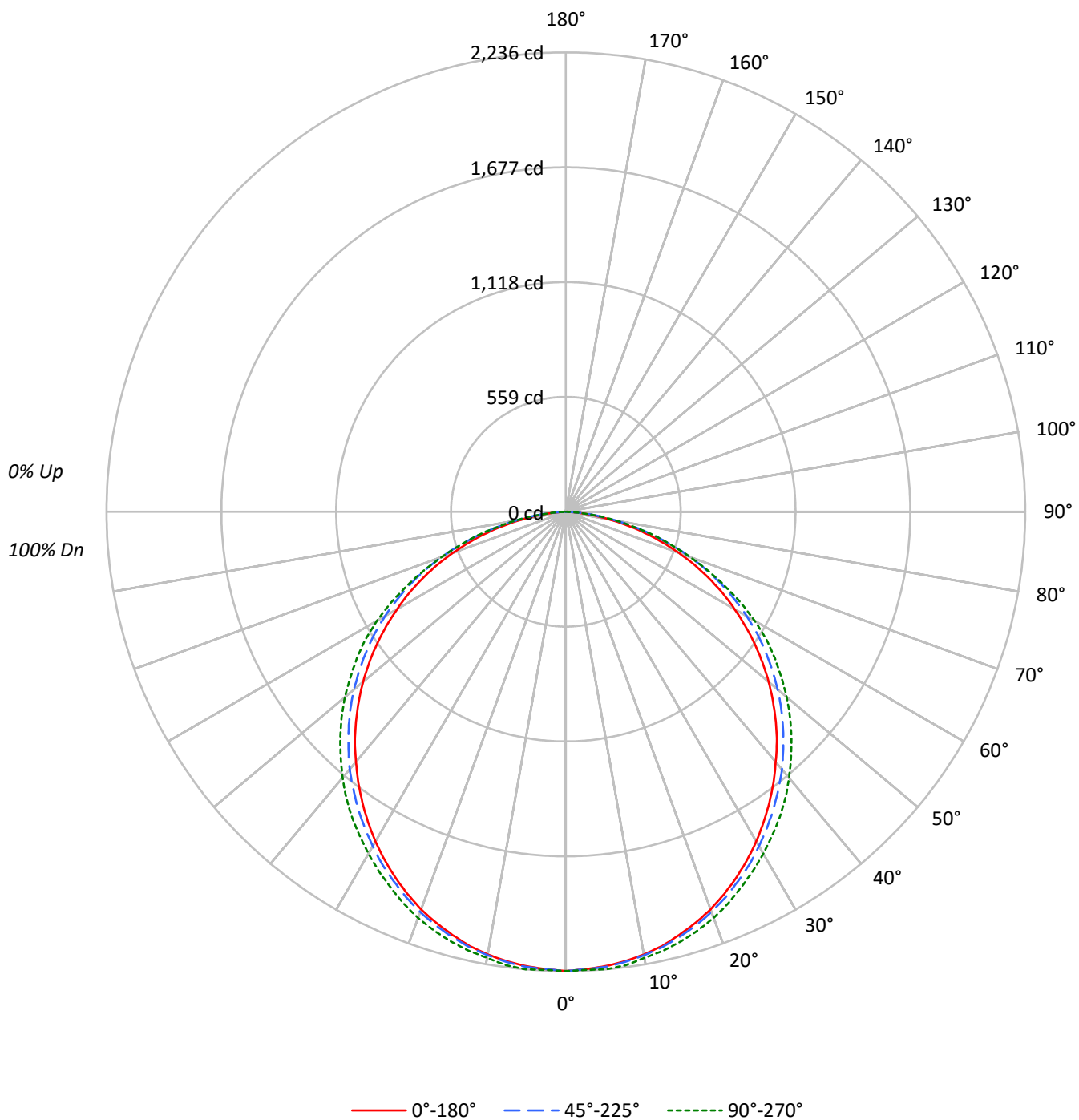
Lumens per Lamp: N/A
Luminaire Lumens: 6451.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	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°	7533	7533	7533
5°	7510	7523	7562
10°	7486	7499	7545
15°	7439	7472	7552
20°	7386	7434	7544
25°	7302	7374	7502
30°	7211	7315	7479
35°	7104	7253	7466
40°	6991	7201	7436
45°	6890	7127	7400
50°	6757	7058	7359
55°	6595	6966	7292
60°	6393	6856	7153
65°	6145	6664	6801
70°	5765	6331	6331
75°	5179	5752	5777
80°	4267	4861	4861
85°	2958	3549	3105

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7400 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	3.3
10°-20°	606.5	9.4
20°-30°	917.9	14.2
30°-40°	1108.2	17.2
40°-50°	1157.8	17.9
50°-60°	1060.6	16.4
60°-70°	817.7	12.7
70°-80°	461.3	7.2
80°-90°	109.2	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°	1736.2	26.9
0°-40°	2844.4	44.1
0°-60°	5062.8	78.5
0°-90°	6451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2236	2236	2236	2236	2236	
5°	2220	2236	2224	2228	2236	211
15°	2132	2146	2142	2159	2165	602
25°	1964	1981	1983	2010	2018	905
35°	1727	1750	1763	1802	1815	1080
45°	1446	1471	1496	1540	1553	1114
55°	1123	1151	1186	1230	1241	1003
65°	771	796	836	864	853	762
75°	398	428	442	453	444	422
85°	76	86	92	98	80	96
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2235.7	2235.7	2235.7	2235.7	2235.7
2.5°	2228.1	2243.4	2228.1	2235.7	2231.9
5°	2220.4	2235.7	2224.2	2228.1	2235.7
7.5°	2207.0	2222.3	2210.8	2216.6	2226.1
10°	2187.9	2203.2	2191.7	2201.3	2205.1
12.5°	2164.9	2178.3	2170.7	2182.2	2187.9
15°	2132.4	2145.8	2142.0	2159.2	2164.9
17.5°	2098.0	2113.3	2109.5	2130.5	2136.3
20°	2059.8	2073.1	2073.1	2092.3	2103.7
22.5°	2013.9	2029.2	2031.1	2052.1	2063.6
25°	1964.1	1981.3	1983.3	2010.0	2017.7
27.5°	1910.6	1927.8	1935.4	1964.1	1971.8
30°	1853.2	1870.4	1880.0	1912.5	1922.1
32.5°	1792.0	1813.0	1822.6	1858.9	1868.5
35°	1727.0	1749.9	1763.3	1801.6	1815.0
37.5°	1660.0	1683.0	1700.2	1740.4	1755.7
40°	1589.3	1614.1	1637.1	1677.3	1690.6
42.5°	1520.4	1545.3	1566.3	1608.4	1621.8
45°	1445.8	1470.7	1495.6	1539.6	1552.9
47.5°	1367.4	1394.2	1422.9	1463.1	1480.3
50°	1289.0	1315.8	1346.4	1388.5	1403.8
52.5°	1206.8	1235.5	1266.1	1310.1	1321.5
55°	1122.6	1151.3	1185.7	1229.7	1241.2
57.5°	1036.6	1067.2	1103.5	1145.6	1157.1
60°	948.6	979.2	1017.4	1057.6	1061.4
62.5°	862.5	889.3	927.6	965.8	960.1
65°	770.7	795.6	835.8	864.4	853.0
67.5°	678.9	705.7	742.0	763.1	747.8
70°	585.2	613.9	642.6	657.9	642.6
72.5°	491.5	522.1	543.1	552.7	539.3
75°	397.8	428.4	441.8	453.3	443.7
77.5°	307.9	336.6	342.3	355.7	342.3
80°	219.9	246.7	250.5	263.9	250.5
82.5°	141.5	158.7	166.4	177.9	164.5
85°	76.5	86.1	91.8	97.5	80.3
87.5°	26.8	30.6	26.8	22.9	9.6
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	18.73	20.38	19.09	20.69	21.01	19.27	20.92	19.64	21.24	21.55
	3H	20.52	22.01	20.89	22.34	22.70	21.08	22.57	21.46	22.90	23.26
	4H	21.16	22.56	21.55	22.91	23.28	21.73	23.13	22.12	23.48	23.85
	6H	21.58	22.88	21.99	23.25	23.64	22.16	23.47	22.57	23.83	24.22
	8H	21.69	22.93	22.11	23.32	23.72	22.29	23.53	22.71	23.92	24.32
	12H	21.74	22.94	22.17	23.32	23.75	22.34	23.54	22.77	23.92	24.35
4H	2H	19.46	20.86	19.85	21.21	21.58	19.88	21.29	20.28	21.63	22.01
	3H	21.46	22.64	21.87	23.04	23.44	21.92	23.10	22.33	23.49	23.89
	4H	22.23	23.30	22.66	23.71	24.15	22.70	23.76	23.13	24.18	24.61
	6H	22.77	23.71	23.23	24.15	24.60	23.26	24.20	23.72	24.64	25.09
	8H	22.92	23.79	23.38	24.23	24.70	23.43	24.30	23.89	24.74	25.21
	12H	23.00	23.79	23.48	24.26	24.73	23.52	24.31	24.00	24.78	25.25
8H	4H	22.57	23.45	23.03	23.89	24.35	22.98	23.86	23.44	24.30	24.76
	6H	23.23	23.96	23.72	24.44	24.92	23.67	24.39	24.16	24.88	25.35
	8H	23.44	24.09	23.95	24.59	25.08	23.90	24.55	24.41	25.06	25.54
	12H	23.57	24.15	24.08	24.64	25.20	24.05	24.62	24.56	25.12	25.68
12H	4H	22.61	23.39	23.09	23.87	24.34	23.01	23.80	23.49	24.27	24.74
	6H	23.29	23.94	23.79	24.44	24.93	23.71	24.36	24.22	24.87	25.35
	8H	23.54	24.12	24.05	24.61	25.17	23.99	24.57	24.50	25.06	25.62