

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: P1584713

Luminaire Tested: 14CZSP-A-60VHE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-776-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-60VHE-L830
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 6200 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

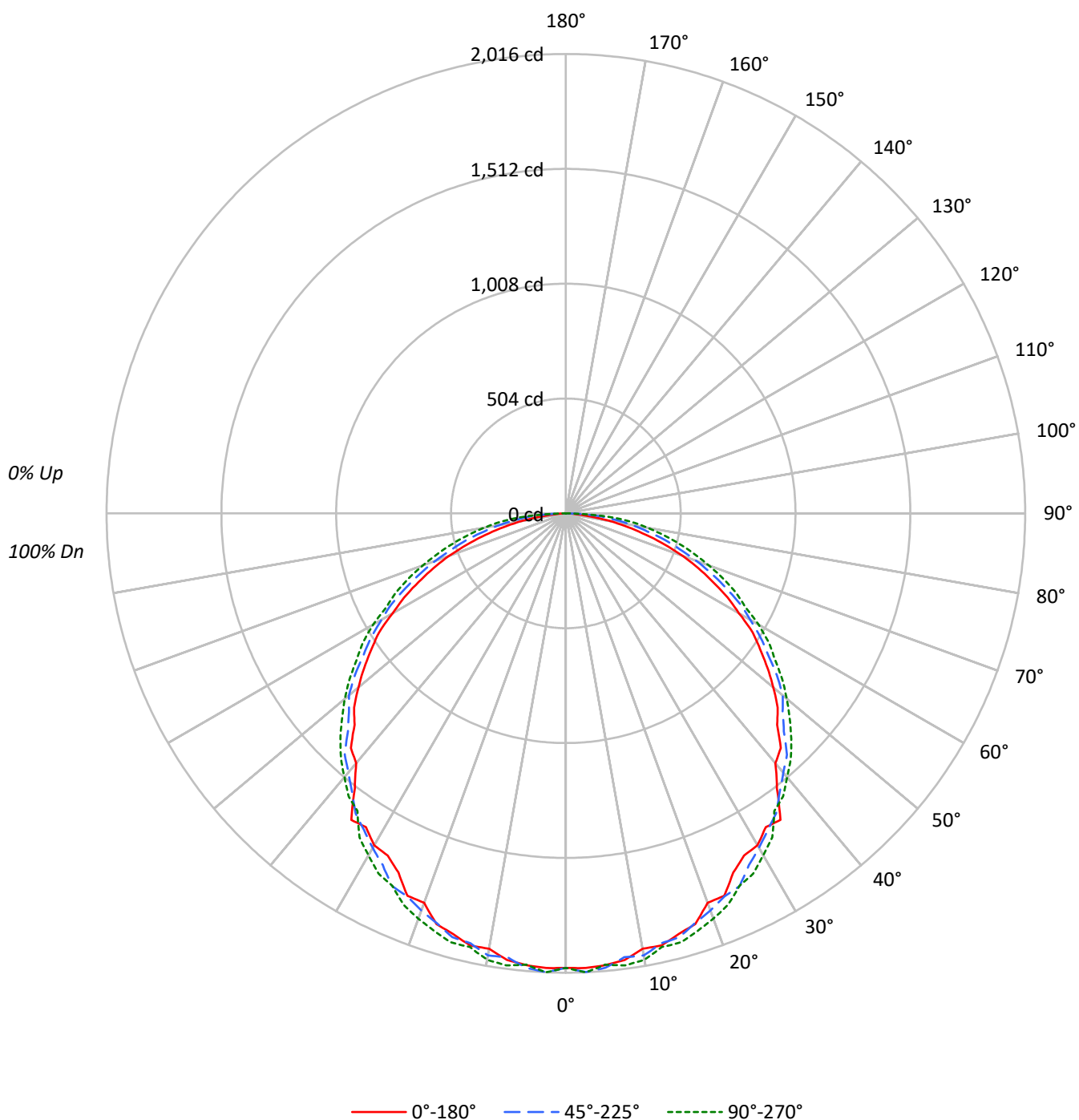
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5978.0 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 43.9
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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78
3	89	78	70	63	87	77	69	63	74	67	61		71	65	60		68
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55
6	69	55	46	40	67	54	46	40	53	45	39		51	44	39		49
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6720	6720	6720
5°	6732	6770	6725
10°	6637	6739	6806
15°	6667	6717	6800
20°	6522	6650	6787
25°	6464	6708	6704
30°	6544	6597	6741
35°	6754	6614	6560
40°	6296	6531	6648
45°	6248	6448	6669
50°	6232	6512	6636
55°	6121	6368	6586
60°	5914	6294	6585
65°	5686	6186	6570
70°	5375	6013	6580
75°	4749	5873	6702
80°	3908	5722	7098
85°	2184	6039	7906

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 7906 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	3.2
10°-20°	542.6	9.1
20°-30°	824.6	13.8
30°-40°	1002.7	16.8
40°-50°	1052.6	17.6
50°-60°	973.5	16.3
60°-70°	766.9	12.8
70°-80°	471.4	7.9
80°-90°	154.8	2.6
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°	1556.2	26.0
0°-40°	2558.9	42.8
0°-60°	4584.9	76.7
0°-90°	5978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5978.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1994	1994	1994	1994	1994	
5°	1990	1955	2002	1984	1988	189
15°	1911	1906	1926	1951	1949	538
25°	1738	1770	1804	1799	1803	807
35°	1642	1583	1608	1633	1595	995
45°	1311	1339	1353	1392	1399	1019
55°	1042	1075	1084	1112	1121	931
65°	713	741	776	810	824	706
75°	365	405	451	497	515	388
85°	56	99	156	191	204	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1994.4	1994.4	1994.4	1994.4	1994.4
2.5°	1997.4	2000.5	2014.9	1983.1	2015.9
5°	1990.3	1955.3	2001.6	1984.1	1988.2
7.5°	1976.9	1981.0	1964.6	1974.8	2000.5
10°	1939.9	1965.6	1969.7	1973.8	1989.2
12.5°	1942.0	1925.5	1932.7	1962.5	1949.2
15°	1911.1	1906.0	1925.5	1951.2	1949.2
17.5°	1889.6	1878.3	1885.4	1897.8	1921.4
20°	1818.7	1848.5	1854.6	1892.6	1892.6
22.5°	1816.6	1815.6	1819.7	1839.2	1859.8
25°	1738.5	1770.4	1804.3	1799.1	1803.2
27.5°	1693.3	1729.3	1740.6	1775.5	1781.7
30°	1682.0	1688.2	1695.4	1733.4	1732.4
32.5°	1632.7	1643.0	1648.1	1669.7	1686.1
35°	1641.9	1583.4	1608.0	1632.7	1594.7
37.5°	1521.7	1531.0	1541.2	1559.7	1565.9
40°	1431.3	1454.9	1484.7	1506.3	1511.4
42.5°	1396.4	1431.3	1436.4	1456.0	1461.1
45°	1311.1	1338.8	1353.2	1392.3	1399.4
47.5°	1260.7	1264.8	1290.5	1327.5	1332.7
50°	1188.8	1216.6	1242.2	1258.7	1265.9
52.5°	1115.9	1146.7	1167.2	1182.6	1197.0
55°	1041.9	1074.8	1084.0	1111.7	1121.0
57.5°	973.0	983.3	1013.1	1039.8	1056.3
60°	877.5	912.4	934.0	983.3	977.1
62.5°	800.4	824.0	864.1	888.8	885.7
65°	713.1	740.8	775.8	809.7	824.0
67.5°	629.9	666.8	692.5	736.7	747.0
70°	545.6	563.1	610.3	653.5	667.9
72.5°	455.2	482.9	524.0	571.3	588.8
75°	364.8	404.8	451.1	497.3	514.8
77.5°	279.5	314.4	366.8	420.2	437.7
80°	201.4	233.2	294.9	344.2	365.8
82.5°	118.2	161.3	221.9	276.4	292.8
85°	56.5	98.6	156.2	191.1	204.5
87.5°	15.4	44.2	68.8	89.4	92.5
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	18.42	20.09	18.79	20.41	20.72	18.86	20.53	19.22	20.84	21.15
	3H	20.23	21.75	20.61	22.07	22.43	20.94	22.46	21.32	22.78	23.14
	4H	20.87	22.30	21.27	22.65	23.02	21.82	23.25	22.22	23.60	23.97
	6H	21.28	22.61	21.69	22.98	23.37	22.61	23.93	23.02	24.30	24.69
	8H	21.38	22.65	21.81	23.04	23.44	22.95	24.22	23.37	24.60	25.00
	12H	21.42	22.64	21.85	23.02	23.45	23.23	24.45	23.66	24.83	25.26
4H	2H	19.16	20.59	19.55	20.93	21.31	19.49	20.92	19.89	21.27	21.64
	3H	21.18	22.39	21.59	22.78	23.18	21.80	23.01	22.21	23.41	23.81
	4H	21.96	23.05	22.39	23.47	23.90	22.84	23.94	23.27	24.35	24.78
	6H	22.50	23.46	22.95	23.90	24.35	23.80	24.76	24.25	25.19	25.65
	8H	22.64	23.54	23.10	23.98	24.44	24.21	25.11	24.67	25.55	26.02
	12H	22.71	23.52	23.19	24.00	24.46	24.58	25.39	25.06	25.87	26.33
8H	4H	22.39	23.29	22.85	23.73	24.20	23.17	24.06	23.62	24.51	24.97
	6H	23.07	23.82	23.56	24.31	24.78	24.28	25.03	24.77	25.52	25.99
	8H	23.28	23.96	23.79	24.46	24.95	24.82	25.50	25.33	26.00	26.48
	12H	23.42	24.02	23.93	24.51	25.07	25.32	25.92	25.83	26.41	26.97
12H	4H	22.48	23.29	22.95	23.76	24.23	23.20	24.01	23.68	24.48	24.95
	6H	23.20	23.88	23.71	24.38	24.87	24.34	25.02	24.85	25.52	26.01
	8H	23.49	24.09	23.99	24.58	25.13	24.96	25.55	25.46	26.04	26.60