

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: P1584431

Luminaire Tested: 14CZSP-60VHE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584431
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-60VHE-L950
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 6200 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

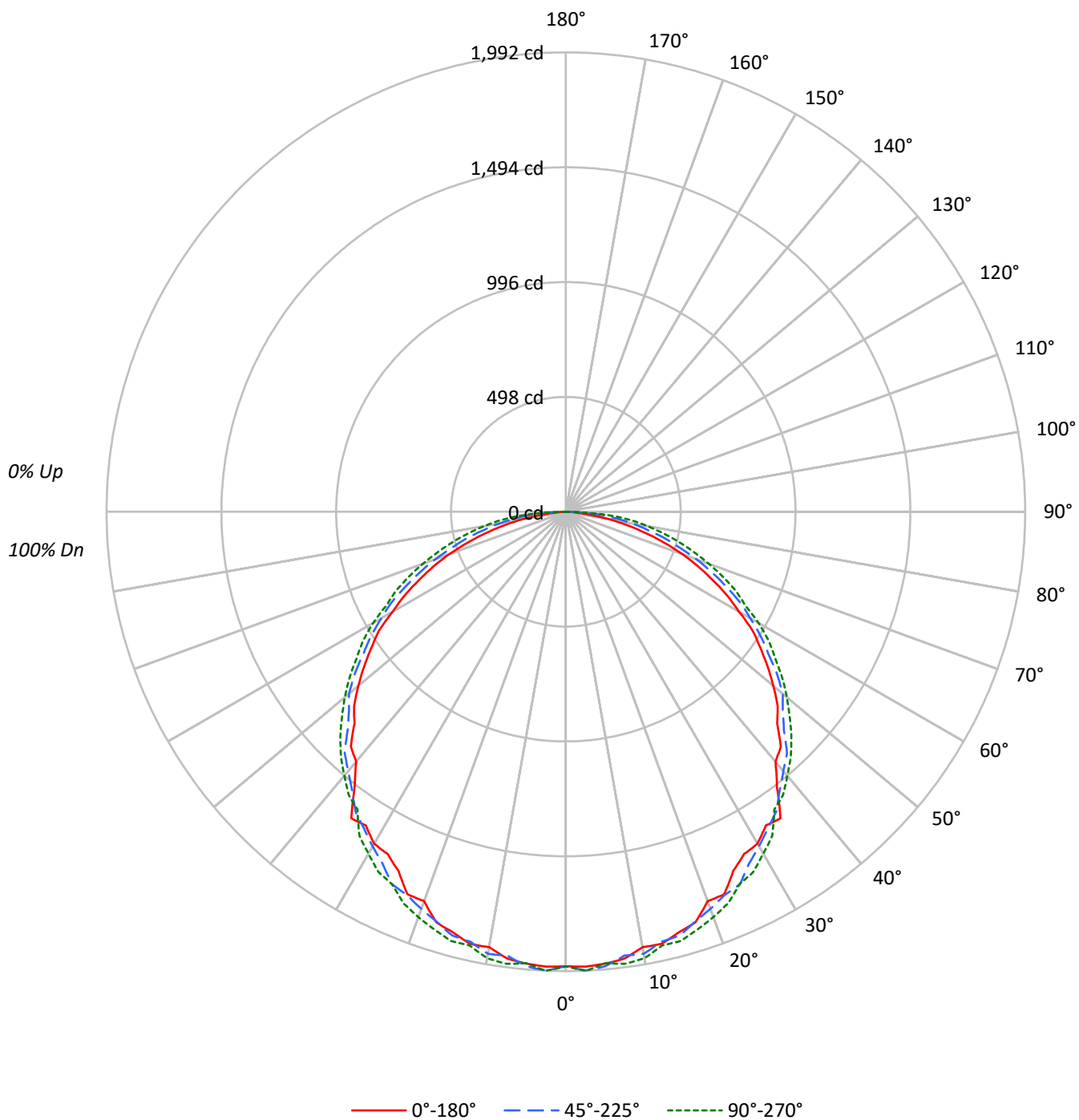
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5908.0 lumens
Efficiency: N/A
Efficacy: 134.6 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			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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61		71	65	60		68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6641	6641	6641
5°	6653	6691	6646
10°	6560	6660	6726
15°	6589	6639	6720
20°	6445	6572	6707
25°	6388	6629	6626
30°	6468	6519	6662
35°	6675	6537	6483
40°	6222	6454	6570
45°	6174	6373	6591
50°	6159	6436	6558
55°	6049	6294	6509
60°	5844	6221	6508
65°	5619	6113	6493
70°	5312	5943	6502
75°	4693	5804	6623
80°	3862	5655	7015
85°	2161	5969	7814

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 7814 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	3.2
10°-20°	536.2	9.1
20°-30°	814.9	13.8
30°-40°	991.0	16.8
40°-50°	1040.2	17.6
50°-60°	962.1	16.3
60°-70°	757.9	12.8
70°-80°	465.9	7.9
80°-90°	153.0	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°	1537.9	26.0
0°-40°	2528.9	42.8
0°-60°	4531.2	76.7
0°-90°	5908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1971	1971	1971	1971	1971	
5°	1967	1932	1978	1961	1965	186
15°	1889	1884	1903	1928	1926	532
25°	1718	1750	1783	1778	1782	798
35°	1623	1565	1589	1614	1576	983
45°	1296	1323	1337	1376	1383	1007
55°	1030	1062	1071	1099	1108	920
65°	705	732	767	800	814	698
75°	360	400	446	492	509	384
85°	56	98	154	189	202	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1971.0	1971.0	1971.0	1971.0	1971.0
2.5°	1974.1	1977.1	1991.3	1959.8	1992.3
5°	1966.9	1932.4	1978.1	1960.9	1964.9
7.5°	1953.7	1957.8	1941.6	1951.7	1977.1
10°	1917.2	1942.6	1946.6	1950.7	1965.9
12.5°	1919.2	1903.0	1910.1	1939.5	1926.3
15°	1888.8	1883.7	1903.0	1928.4	1926.3
17.5°	1867.4	1856.3	1863.4	1875.6	1898.9
20°	1797.4	1826.8	1832.9	1870.5	1870.5
22.5°	1795.3	1794.3	1798.4	1817.7	1838.0
25°	1718.2	1749.6	1783.1	1778.1	1782.1
27.5°	1673.5	1709.0	1720.2	1754.7	1760.8
30°	1662.3	1668.4	1675.5	1713.1	1712.1
32.5°	1613.6	1623.7	1628.8	1650.1	1666.4
35°	1622.7	1564.8	1589.2	1613.6	1576.0
37.5°	1503.9	1513.0	1523.2	1541.5	1547.6
40°	1414.5	1437.9	1467.3	1488.7	1493.7
42.5°	1380.0	1414.5	1419.6	1438.9	1444.0
45°	1295.7	1323.1	1337.4	1375.9	1383.1
47.5°	1246.0	1250.0	1275.4	1312.0	1317.1
50°	1174.9	1202.3	1227.7	1243.9	1251.0
52.5°	1102.8	1133.3	1153.6	1168.8	1183.0
55°	1029.7	1062.2	1071.3	1098.7	1107.9
57.5°	961.6	971.8	1001.2	1027.6	1043.9
60°	867.2	901.7	923.1	971.8	965.7
62.5°	791.0	814.4	854.0	878.4	875.3
65°	704.7	732.1	766.7	800.2	814.4
67.5°	622.5	659.0	684.4	728.1	738.2
70°	539.2	556.5	603.2	645.8	660.0
72.5°	449.8	477.3	517.9	564.6	581.9
75°	360.5	400.1	445.8	491.5	508.7
77.5°	276.2	310.7	362.5	415.3	432.6
80°	199.0	230.5	291.4	340.2	361.5
82.5°	116.8	159.4	219.3	273.2	289.4
85°	55.9	97.5	154.4	188.9	202.1
87.5°	15.2	43.7	68.0	88.3	91.4
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	18.38	20.05	18.75	20.37	20.68	18.81	20.48	19.18	20.80	21.11
	3H	20.19	21.71	20.57	22.03	22.39	20.90	22.41	21.28	22.74	23.10
	4H	20.83	22.26	21.23	22.61	22.98	21.78	23.21	22.18	23.56	23.93
	6H	21.24	22.57	21.65	22.93	23.33	22.57	23.89	22.98	24.26	24.65
	8H	21.34	22.61	21.77	23.00	23.40	22.90	24.17	23.33	24.56	24.96
	12H	21.38	22.60	21.81	22.98	23.41	23.19	24.41	23.62	24.79	25.22
4H	2H	19.11	20.54	19.51	20.89	21.27	19.45	20.88	19.85	21.23	21.60
	3H	21.14	22.35	21.55	22.74	23.14	21.76	22.97	22.17	23.37	23.76
	4H	21.92	23.01	22.35	23.42	23.86	22.80	23.90	23.23	24.31	24.74
	6H	22.46	23.42	22.91	23.86	24.31	23.75	24.71	24.21	25.15	25.61
	8H	22.60	23.50	23.06	23.94	24.40	24.17	25.07	24.63	25.51	25.98
	12H	22.67	23.48	23.15	23.95	24.42	24.54	25.35	25.02	25.82	26.29
8H	4H	22.35	23.25	22.81	23.69	24.16	23.12	24.02	23.58	24.46	24.93
	6H	23.03	23.78	23.52	24.27	24.74	24.24	24.99	24.73	25.48	25.95
	8H	23.24	23.92	23.75	24.42	24.91	24.78	25.46	25.29	25.96	26.44
	12H	23.38	23.98	23.88	24.47	25.03	25.28	25.88	25.79	26.37	26.93
12H	4H	22.43	23.24	22.91	23.72	24.19	23.16	23.97	23.63	24.44	24.91
	6H	23.16	23.84	23.67	24.34	24.82	24.30	24.98	24.81	25.48	25.97
	8H	23.45	24.05	23.95	24.53	25.09	24.92	25.51	25.42	26.00	26.56