

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: P1584420

Luminaire Tested: 14CZSP-60VHE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584420
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-60VHE-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 6200 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

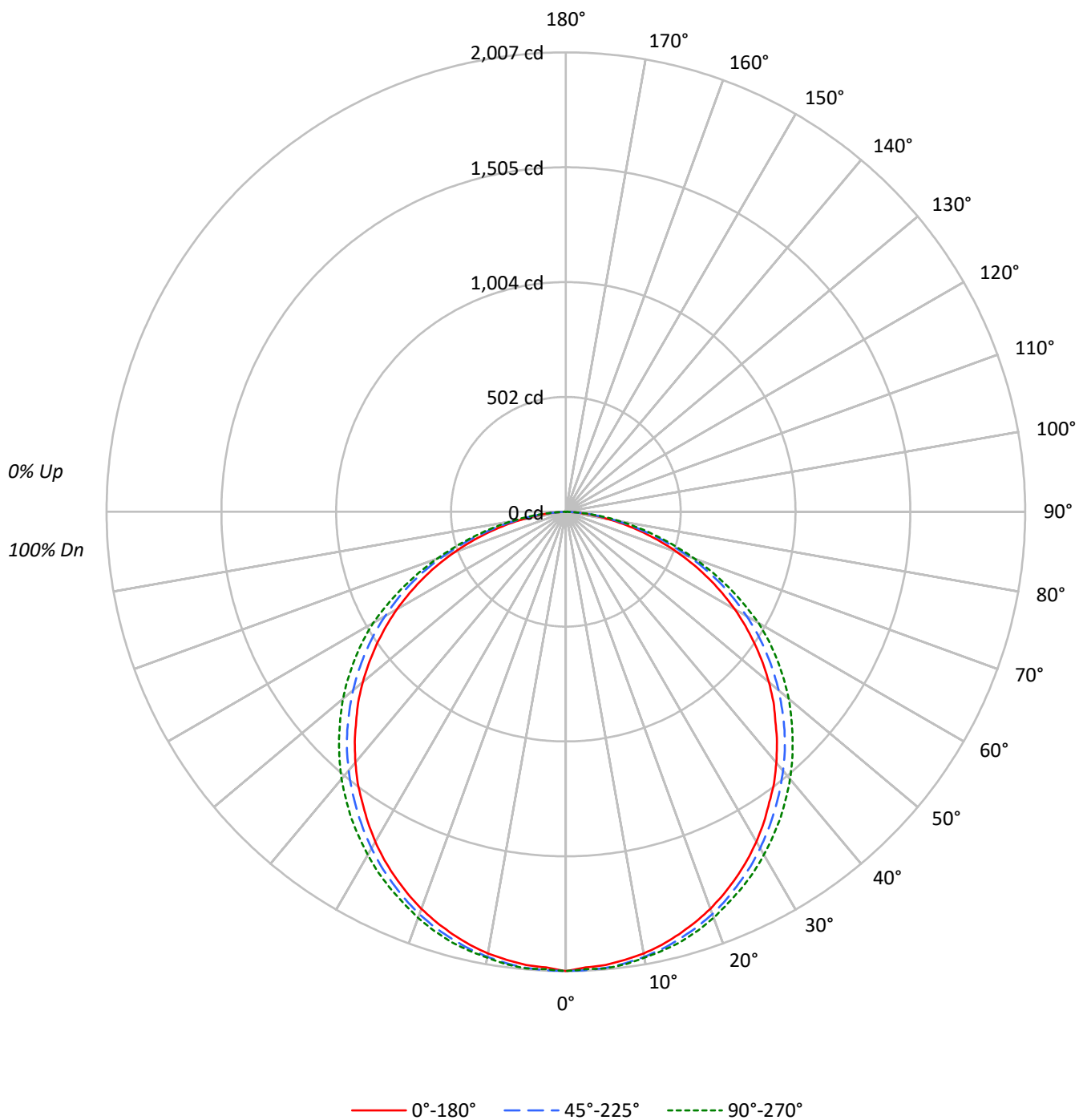
Lumens per Lamp: N/A
Luminaire Lumens: 5801.0 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	6761	6761	6761
5°	6724	6767	6773
10°	6705	6754	6769
15°	6666	6735	6782
20°	6619	6708	6770
25°	6552	6657	6749
30°	6478	6605	6734
35°	6375	6547	6723
40°	6291	6494	6704
45°	6172	6437	6677
50°	6069	6360	6665
55°	5924	6270	6621
60°	5743	6145	6554
65°	5487	5977	6284
70°	5114	5644	5897
75°	4568	5092	5381
80°	3745	4290	4706
85°	2509	3135	3499

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6677 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.0	3.3
10°-20°	544.8	9.4
20°-30°	824.9	14.2
30°-40°	996.2	17.2
40°-50°	1041.1	17.9
50°-60°	954.0	16.4
60°-70°	736.4	12.7
70°-80°	414.3	7.1
80°-90°	99.1	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°	1559.8	26.9
0°-40°	2556.0	44.1
0°-60°	4551.2	78.5
0°-90°	5801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2007	2007	2007	2007	2007	
5°	1988	2002	2001	2002	2002	189
15°	1911	1926	1931	1938	1944	539
25°	1762	1778	1790	1800	1815	812
35°	1550	1569	1592	1613	1634	971
45°	1295	1321	1351	1378	1401	1001
55°	1008	1035	1067	1101	1127	901
65°	688	718	750	780	788	680
75°	351	383	391	407	413	372
85°	65	74	81	89	90	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2006.6	2006.6	2006.6	2006.6	2006.6
2.5°	1992.9	2008.3	2004.9	2010.0	2000.6
5°	1987.8	2002.3	2000.6	2002.3	2002.3
7.5°	1975.0	1990.3	1989.5	1992.1	1993.8
10°	1959.6	1974.1	1974.1	1976.7	1978.4
12.5°	1938.3	1953.6	1955.3	1959.6	1963.0
15°	1910.9	1926.3	1930.6	1938.3	1944.2
17.5°	1880.2	1896.4	1903.3	1910.9	1918.6
20°	1846.0	1860.6	1870.8	1876.8	1887.9
22.5°	1805.9	1822.1	1833.2	1839.2	1851.2
25°	1762.4	1777.7	1790.5	1799.9	1815.3
27.5°	1716.3	1731.6	1747.0	1758.1	1776.0
30°	1665.0	1681.3	1697.5	1714.6	1730.8
32.5°	1609.5	1628.3	1646.2	1665.0	1683.0
35°	1549.8	1569.4	1591.6	1612.9	1634.3
37.5°	1494.3	1512.2	1535.2	1558.3	1579.6
40°	1430.2	1449.9	1476.3	1501.9	1524.1
42.5°	1365.3	1386.7	1415.7	1440.5	1464.4
45°	1295.3	1320.9	1350.8	1378.1	1401.2
47.5°	1230.4	1252.6	1282.5	1312.4	1336.3
50°	1157.8	1182.6	1213.3	1244.9	1271.4
52.5°	1084.4	1110.0	1141.6	1173.2	1200.5
55°	1008.4	1034.9	1067.3	1100.6	1127.1
57.5°	930.7	958.9	992.2	1025.5	1052.0
60°	852.2	880.3	911.9	948.6	972.5
62.5°	770.2	801.8	831.7	865.8	880.3
65°	688.2	718.1	749.7	779.6	788.1
67.5°	604.5	635.3	663.4	683.1	694.2
70°	519.1	552.4	572.9	591.7	598.6
72.5°	434.6	467.9	479.9	497.8	504.6
75°	350.9	383.4	391.1	407.3	413.3
77.5°	269.8	299.7	302.3	321.1	326.2
80°	193.0	216.9	221.1	239.1	242.5
82.5°	123.8	140.9	146.9	162.2	167.4
85°	64.9	74.3	81.1	88.8	90.5
87.5°	21.3	26.5	22.2	23.1	21.3
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	18.35	20.00	18.72	20.32	20.63	18.89	20.54	19.26	20.86	21.17
	3H	20.13	21.62	20.50	21.95	22.31	20.75	22.24	21.13	22.57	22.93
	4H	20.75	22.16	21.15	22.51	22.88	21.42	22.83	21.82	23.17	23.55
	6H	21.16	22.47	21.57	22.83	23.22	21.89	23.20	22.31	23.56	23.95
	8H	21.27	22.51	21.69	22.90	23.30	22.04	23.29	22.47	23.68	24.07
	12H	21.32	22.51	21.75	22.89	23.32	22.12	23.32	22.55	23.70	24.13
4H	2H	19.08	20.48	19.47	20.83	21.21	19.50	20.91	19.90	21.25	21.63
	3H	21.07	22.25	21.48	22.65	23.05	21.57	22.75	21.98	23.15	23.55
	4H	21.83	22.90	22.26	23.31	23.75	22.37	23.44	22.80	23.85	24.28
	6H	22.36	23.29	22.81	23.73	24.19	22.97	23.90	23.42	24.34	24.80
	8H	22.50	23.37	22.96	23.81	24.28	23.16	24.03	23.62	24.48	24.94
	12H	22.57	23.36	23.05	23.83	24.30	23.28	24.07	23.76	24.54	25.01
8H	4H	22.17	23.04	22.63	23.48	23.95	22.64	23.52	23.10	23.96	24.42
	6H	22.81	23.53	23.30	24.02	24.49	23.36	24.08	23.85	24.57	25.04
	8H	23.01	23.66	23.51	24.16	24.65	23.61	24.26	24.12	24.77	25.25
	12H	23.14	23.71	23.64	24.20	24.76	23.79	24.37	24.30	24.86	25.42
12H	4H	22.20	22.99	22.68	23.46	23.93	22.67	23.45	23.15	23.93	24.40
	6H	22.86	23.51	23.37	24.02	24.50	23.39	24.04	23.90	24.55	25.04
	8H	23.11	23.69	23.62	24.18	24.74	23.70	24.28	24.21	24.77	25.33