

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: P1585825

Luminaire Tested: 14CZSP-SB-60VHE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-60VHE-L935
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 6200 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

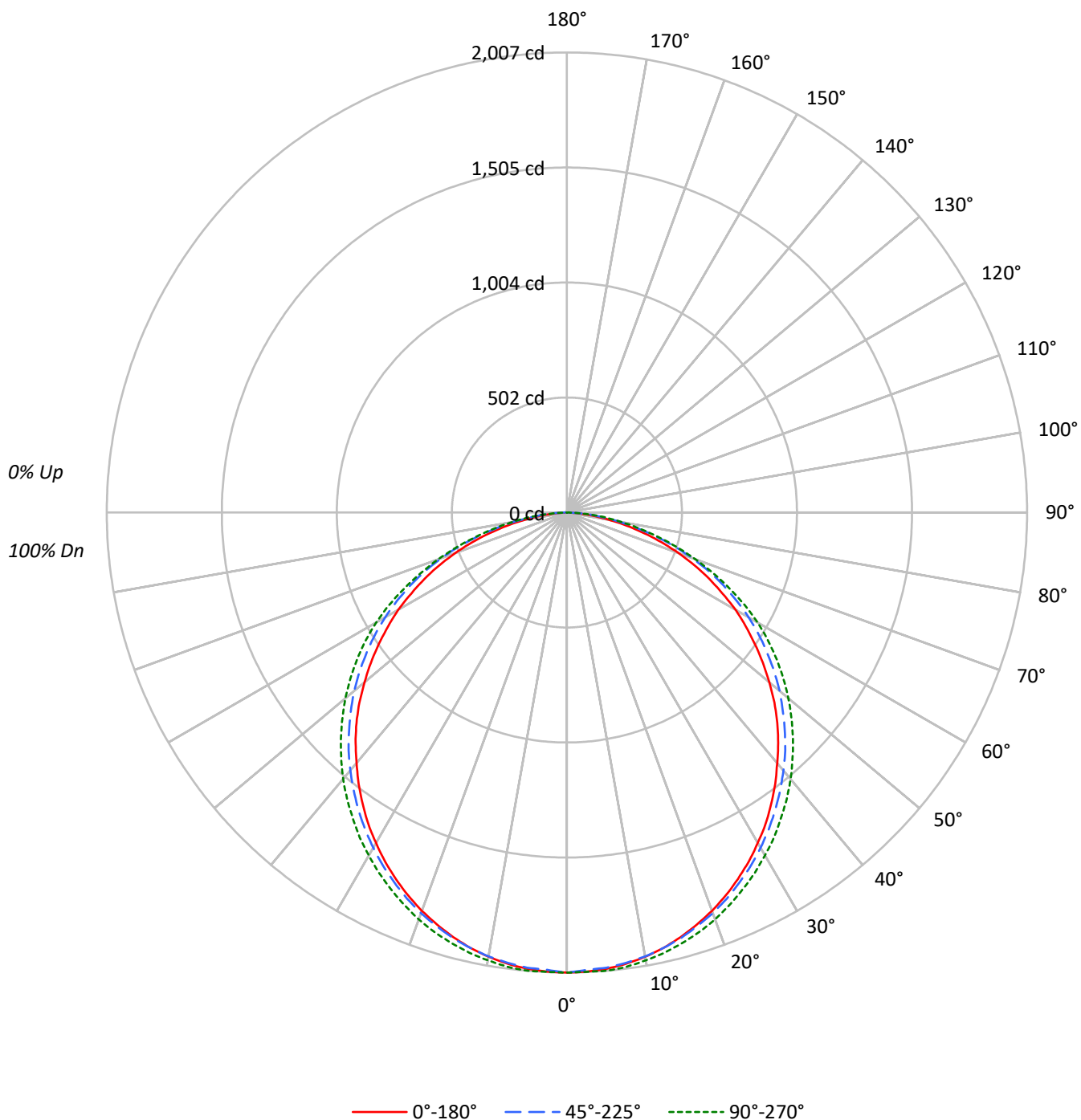
Lumens per Lamp: N/A
Luminaire Lumens: 5799.0 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	79	75		82	77	73		79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	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	58	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°	6764	6764	6764
5°	6758	6742	6787
10°	6734	6728	6788
15°	6690	6705	6784
20°	6632	6671	6773
25°	6559	6621	6745
30°	6477	6572	6721
35°	6388	6518	6697
40°	6276	6463	6680
45°	6186	6405	6644
50°	6038	6345	6612
55°	5884	6262	6561
60°	5725	6170	6474
65°	5468	6008	6227
70°	5102	5736	5876
75°	4546	5199	5351
80°	3712	4506	4733
85°	2455	3584	3843

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6644 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.1	3.3
10°-20°	544.6	9.4
20°-30°	824.5	14.2
30°-40°	995.2	17.2
40°-50°	1039.3	17.9
50°-60°	950.8	16.4
60°-70°	735.0	12.7
70°-80°	416.1	7.2
80°-90°	103.4	1.8
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°	1559.2	26.9
0°-40°	2554.4	44.0
0°-60°	4544.5	78.4
0°-90°	5799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5799.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2007	2007	2007	2007	2007	
5°	1998	2012	1993	1995	2006	190
15°	1918	1935	1922	1931	1945	541
25°	1764	1787	1781	1798	1814	813
35°	1553	1575	1585	1611	1628	971
45°	1298	1323	1344	1378	1394	1000
55°	1002	1032	1066	1099	1117	896
65°	686	714	754	776	781	677
75°	349	379	399	409	411	370
85°	64	74	93	97	99	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2007.3	2007.3	2007.3	2007.3	2007.3
2.5°	2004.8	2019.0	1997.3	2001.4	2005.6
5°	1998.1	2012.3	1993.1	1994.7	2006.4
7.5°	1985.6	2001.4	1981.4	1984.7	1998.9
10°	1968.0	1983.9	1966.3	1969.7	1983.9
12.5°	1945.5	1961.3	1946.3	1951.3	1967.2
15°	1917.9	1934.6	1922.1	1931.3	1944.6
17.5°	1884.5	1905.4	1892.0	1906.2	1919.6
20°	1849.4	1870.3	1860.3	1872.8	1888.7
22.5°	1809.3	1830.2	1822.7	1836.0	1853.6
25°	1764.2	1786.8	1780.9	1797.6	1814.3
27.5°	1717.4	1739.1	1737.5	1755.8	1773.4
30°	1664.8	1688.2	1689.0	1710.7	1727.4
32.5°	1612.2	1633.1	1638.1	1662.3	1681.5
35°	1552.9	1574.6	1584.6	1611.3	1628.0
37.5°	1492.7	1516.9	1527.8	1557.0	1574.6
40°	1426.7	1454.3	1469.3	1500.2	1518.6
42.5°	1364.1	1389.1	1409.2	1440.1	1456.8
45°	1298.1	1323.2	1344.0	1378.3	1394.2
47.5°	1227.1	1254.7	1277.2	1310.6	1328.2
50°	1151.9	1182.0	1210.4	1243.0	1261.3
52.5°	1077.6	1106.8	1139.4	1171.1	1189.5
55°	1001.6	1031.6	1065.9	1099.3	1116.8
57.5°	924.7	954.8	992.4	1022.4	1040.8
60°	849.5	877.1	915.5	945.6	960.6
62.5°	764.3	796.1	835.3	865.4	873.7
65°	685.8	714.2	753.5	776.0	781.0
67.5°	602.3	630.7	669.9	682.5	690.0
70°	517.9	548.0	582.2	590.6	596.4
72.5°	432.7	463.6	490.3	498.7	503.7
75°	349.2	379.2	399.3	409.3	411.0
77.5°	268.1	295.7	314.1	325.8	325.8
80°	191.3	212.2	232.2	244.7	243.9
82.5°	122.0	137.8	158.7	167.9	173.7
85°	63.5	73.5	92.7	96.9	99.4
87.5°	20.0	25.9	33.4	27.6	26.7
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	18.32	19.97	18.69	20.29	20.60	18.86	20.51	19.23	20.83	21.14
	3H	20.09	21.59	20.47	21.91	22.27	20.72	22.22	21.10	22.54	22.90
	4H	20.72	22.13	21.12	22.47	22.85	21.39	22.80	21.79	23.15	23.52
	6H	21.12	22.43	21.53	22.79	23.18	21.88	23.19	22.29	23.55	23.94
	8H	21.22	22.47	21.65	22.86	23.26	22.04	23.28	22.46	23.67	24.07
	12H	21.27	22.47	21.70	22.85	23.28	22.13	23.33	22.56	23.71	24.14
4H	2H	19.06	20.47	19.46	20.82	21.19	19.48	20.89	19.88	21.24	21.61
	3H	21.05	22.23	21.46	22.63	23.03	21.56	22.74	21.97	23.14	23.54
	4H	21.80	22.87	22.23	23.28	23.72	22.36	23.43	22.79	23.84	24.28
	6H	22.32	23.26	22.77	23.70	24.15	22.98	23.91	23.43	24.35	24.81
	8H	22.46	23.33	22.92	23.77	24.24	23.18	24.05	23.64	24.50	24.96
	12H	22.53	23.32	23.01	23.79	24.26	23.32	24.11	23.80	24.58	25.05
8H	4H	22.16	23.03	22.62	23.47	23.94	22.65	23.53	23.11	23.97	24.43
	6H	22.79	23.52	23.28	24.00	24.48	23.38	24.11	23.88	24.60	25.07
	8H	22.98	23.64	23.49	24.14	24.63	23.66	24.31	24.17	24.81	25.30
	12H	23.11	23.69	23.61	24.18	24.74	23.86	24.44	24.37	24.93	25.49
12H	4H	22.20	22.99	22.68	23.46	23.93	22.68	23.46	23.16	23.94	24.41
	6H	22.85	23.51	23.36	24.01	24.50	23.43	24.08	23.93	24.58	25.07
	8H	23.10	23.68	23.61	24.17	24.73	23.75	24.33	24.26	24.82	25.38