

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: P1585816

Luminaire Tested: 14CZSP-SB-60VHE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-60VHE-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 6200 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

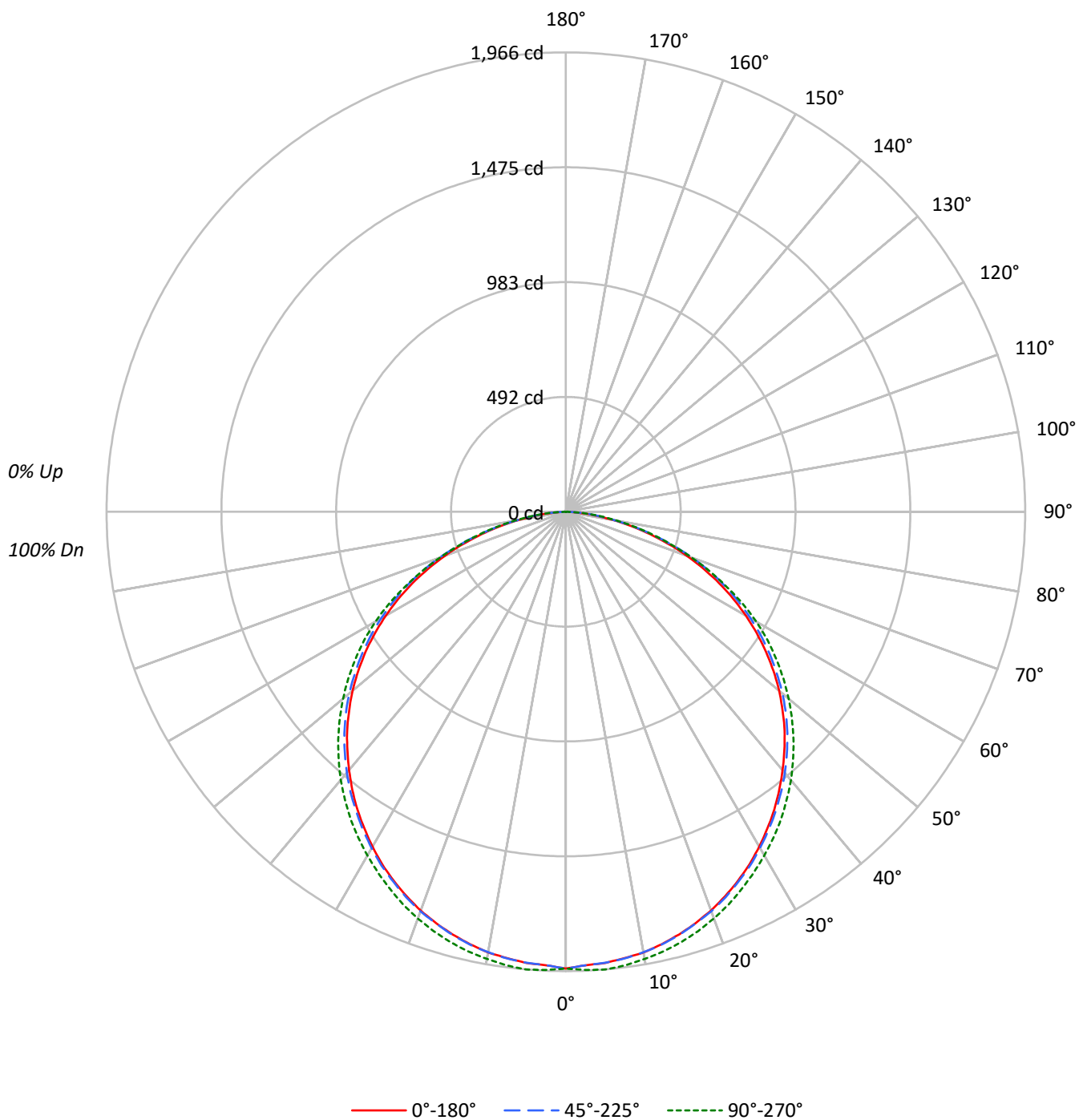
Lumens per Lamp: N/A
Luminaire Lumens: 5769.0 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	109	104	99	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6587	6587	6587
5°	6556	6552	6651
10°	6553	6550	6649
15°	6533	6539	6653
20°	6513	6525	6642
25°	6480	6496	6621
30°	6441	6469	6609
35°	6399	6439	6606
40°	6349	6415	6594
45°	6310	6390	6567
50°	6247	6344	6525
55°	6150	6264	6461
60°	6001	6156	6346
65°	5776	5993	6057
70°	5430	5683	5648
75°	4876	5084	5118
80°	4028	4234	4457
85°	2699	3143	3313

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6567 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	3.2
10°-20°	532.6	9.2
20°-30°	811.0	14.1
30°-40°	987.0	17.1
40°-50°	1040.5	18.0
50°-60°	958.4	16.6
60°-70°	740.2	12.8
70°-80°	414.2	7.2
80°-90°	99.8	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°	1528.9	26.5
0°-40°	2515.9	43.6
0°-60°	4514.8	78.3
0°-90°	5769.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5769.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1955	1955	1955	1955	1955	
5°	1938	1966	1937	1940	1966	184
15°	1873	1898	1874	1885	1907	529
25°	1743	1768	1747	1759	1781	803
35°	1556	1579	1565	1585	1606	973
45°	1324	1343	1341	1361	1378	1020
55°	1047	1064	1066	1088	1100	934
65°	724	746	752	759	760	716
75°	374	398	390	390	393	397
85°	70	77	81	91	86	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1954.9	1954.9	1954.9	1954.9	1954.9
2.5°	1942.5	1970.8	1942.5	1947.0	1962.9
5°	1938.1	1965.5	1937.2	1939.9	1966.4
7.5°	1926.6	1954.9	1928.4	1931.9	1957.6
10°	1915.2	1940.8	1914.3	1918.7	1943.4
12.5°	1895.7	1922.2	1897.5	1902.8	1927.5
15°	1872.7	1898.4	1874.5	1885.1	1907.2
17.5°	1846.2	1871.0	1848.0	1860.4	1881.6
20°	1816.2	1840.1	1819.7	1828.6	1852.4
22.5°	1780.9	1805.6	1786.2	1794.1	1819.7
25°	1742.9	1767.6	1747.3	1758.8	1780.9
27.5°	1701.4	1725.2	1707.6	1721.7	1741.1
30°	1655.4	1678.4	1662.5	1679.3	1698.7
32.5°	1606.0	1630.7	1614.8	1634.2	1653.7
35°	1555.6	1578.6	1565.3	1584.8	1606.0
37.5°	1500.8	1522.9	1513.2	1533.5	1553.0
40°	1443.4	1468.2	1458.4	1479.6	1499.1
42.5°	1384.2	1408.1	1400.1	1422.2	1439.0
45°	1324.2	1342.7	1341.0	1361.3	1378.1
47.5°	1257.9	1280.9	1277.4	1297.7	1312.7
50°	1191.7	1210.2	1210.2	1229.7	1244.7
52.5°	1120.1	1138.7	1138.7	1161.6	1174.0
55°	1046.8	1064.5	1066.2	1088.3	1099.8
57.5°	969.1	987.6	991.1	1013.2	1023.8
60°	890.4	908.1	913.4	935.5	941.7
62.5°	808.3	829.5	832.1	849.8	853.3
65°	724.4	745.6	751.7	758.8	759.7
67.5°	638.7	660.8	666.9	666.9	666.9
70°	551.2	571.5	576.8	573.3	573.3
72.5°	462.9	485.0	482.3	478.8	480.6
75°	374.5	397.5	390.5	389.6	393.1
77.5°	289.7	311.8	300.3	307.4	308.3
80°	207.6	224.4	218.2	228.8	229.7
82.5°	133.4	144.0	145.8	154.6	151.9
85°	69.8	76.9	81.3	91.0	85.7
87.5°	22.1	29.2	26.5	30.9	23.9
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	18.58	20.24	18.95	20.55	20.87	18.80	20.46	19.17	20.77	21.08
	3H	20.41	21.90	20.78	22.23	22.59	20.60	22.10	20.98	22.43	22.78
	4H	21.05	22.46	21.45	22.81	23.19	21.24	22.65	21.64	23.00	23.37
	6H	21.48	22.79	21.89	23.15	23.54	21.69	23.00	22.10	23.37	23.76
	8H	21.59	22.84	22.01	23.23	23.63	21.82	23.07	22.25	23.46	23.86
	12H	21.64	22.84	22.07	23.22	23.65	21.90	23.10	22.33	23.48	23.91
4H	2H	19.26	20.68	19.66	21.02	21.40	19.43	20.85	19.83	21.19	21.57
	3H	21.30	22.49	21.71	22.89	23.29	21.45	22.63	21.86	23.03	23.43
	4H	22.08	23.16	22.52	23.57	24.00	22.21	23.28	22.64	23.69	24.13
	6H	22.63	23.57	23.09	24.01	24.47	22.78	23.72	23.23	24.16	24.61
	8H	22.78	23.66	23.24	24.10	24.56	22.95	23.83	23.41	24.27	24.74
	12H	22.86	23.65	23.34	24.13	24.60	23.07	23.86	23.55	24.33	24.80
8H	4H	22.39	23.27	22.85	23.71	24.18	22.50	23.38	22.96	23.82	24.28
	6H	23.05	23.78	23.54	24.27	24.74	23.18	23.91	23.67	24.40	24.87
	8H	23.26	23.91	23.76	24.42	24.90	23.42	24.07	23.93	24.58	25.06
	12H	23.39	23.97	23.90	24.46	25.02	23.60	24.17	24.10	24.66	25.22
12H	4H	22.42	23.21	22.90	23.69	24.15	22.53	23.32	23.01	23.79	24.26
	6H	23.10	23.75	23.60	24.26	24.74	23.22	23.88	23.73	24.38	24.87
	8H	23.35	23.93	23.86	24.42	24.98	23.51	24.09	24.02	24.58	25.14