

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: P1585814

Luminaire Tested: 14CZSP-SB-60VHE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585814
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-L835-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 6200 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

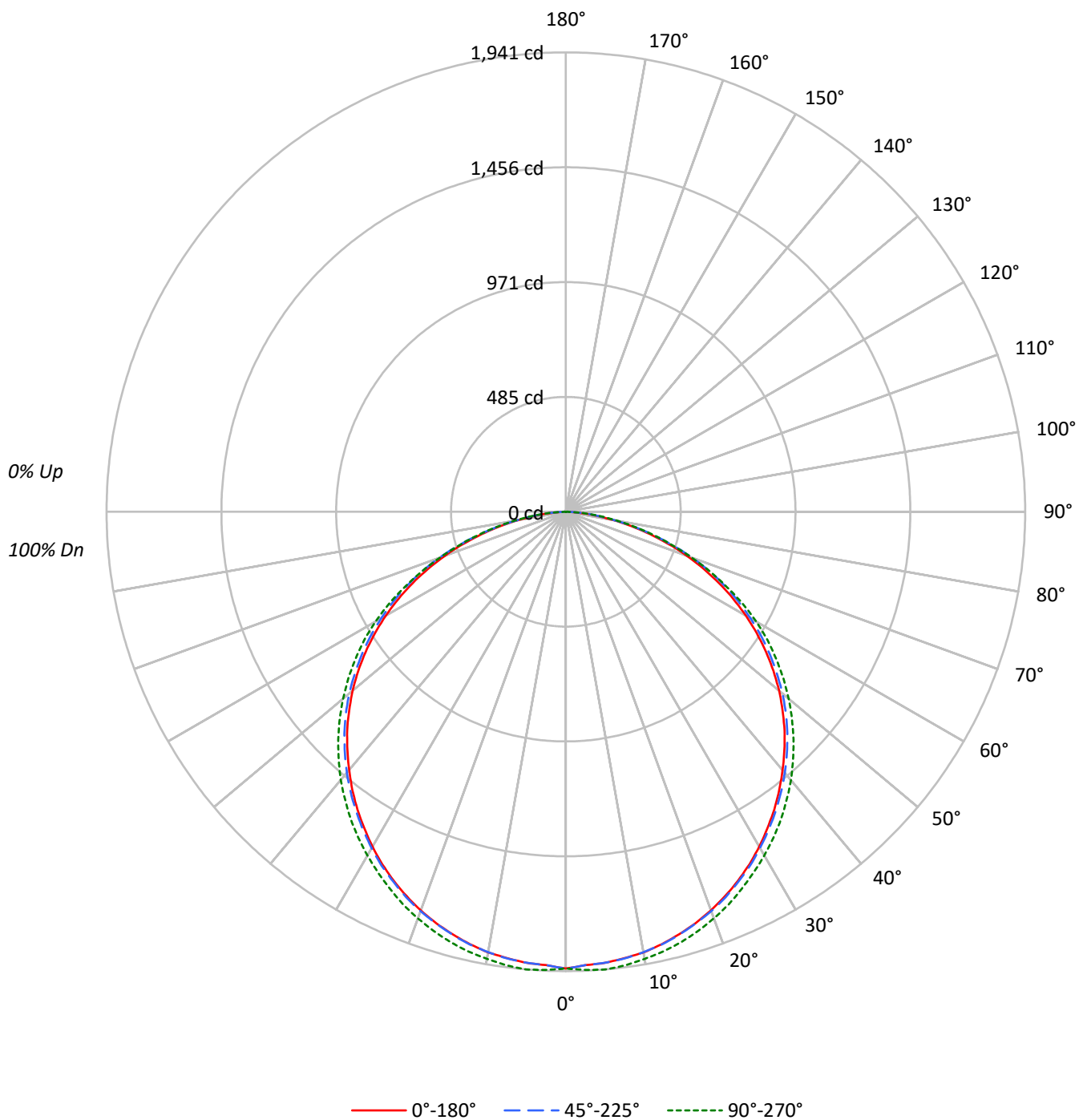
Lumens per Lamp: N/A
Luminaire Lumens: 5695.0 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	6503	6503	6503
5°	6472	6469	6566
10°	6469	6466	6564
15°	6449	6455	6568
20°	6429	6442	6557
25°	6397	6413	6536
30°	6358	6386	6525
35°	6317	6357	6522
40°	6268	6333	6510
45°	6229	6308	6483
50°	6167	6263	6441
55°	6071	6184	6378
60°	5924	6077	6265
65°	5702	5917	5980
70°	5361	5610	5576
75°	4813	5018	5053
80°	3976	4180	4399
85°	2664	3101	3271

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6483 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.9	3.2
10°-20°	525.7	9.2
20°-30°	800.6	14.1
30°-40°	974.4	17.1
40°-50°	1027.2	18.0
50°-60°	946.1	16.6
60°-70°	730.7	12.8
70°-80°	408.9	7.2
80°-90°	98.5	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°	1509.3	26.5
0°-40°	2483.6	43.6
0°-60°	4456.9	78.3
0°-90°	5695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1930	1930	1930	1930	1930	
5°	1913	1940	1912	1915	1941	182
15°	1849	1874	1850	1861	1883	522
25°	1720	1745	1725	1736	1758	793
35°	1536	1558	1545	1564	1585	961
45°	1307	1326	1324	1344	1360	1007
55°	1033	1051	1053	1074	1086	922
65°	715	736	742	749	750	706
75°	370	392	385	385	388	392
85°	69	76	80	90	85	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1929.8	1929.8	1929.8	1929.8	1929.8
2.5°	1917.6	1945.5	1917.6	1922.0	1937.7
5°	1913.3	1940.3	1912.4	1915.0	1941.2
7.5°	1901.9	1929.8	1903.7	1907.2	1932.4
10°	1890.6	1915.9	1889.7	1894.1	1918.5
12.5°	1871.4	1897.6	1873.1	1878.4	1902.8
15°	1848.7	1874.0	1850.5	1860.9	1882.7
17.5°	1822.6	1847.0	1824.3	1836.5	1857.4
20°	1792.9	1816.5	1796.4	1805.1	1828.7
22.5°	1758.0	1782.5	1763.3	1771.1	1796.4
25°	1720.5	1745.0	1724.9	1736.2	1758.0
27.5°	1679.6	1703.1	1685.7	1699.6	1718.8
30°	1634.2	1656.9	1641.2	1657.7	1676.9
32.5°	1585.4	1609.8	1594.1	1613.3	1632.5
35°	1535.7	1558.3	1545.3	1564.4	1585.4
37.5°	1481.6	1503.4	1493.8	1513.9	1533.0
40°	1424.9	1449.3	1439.7	1460.7	1479.9
42.5°	1366.5	1390.0	1382.2	1404.0	1420.6
45°	1307.2	1325.5	1323.8	1343.8	1360.4
47.5°	1241.8	1264.5	1261.0	1281.0	1295.9
50°	1176.4	1194.7	1194.7	1213.9	1228.7
52.5°	1105.7	1124.1	1124.1	1146.7	1158.9
55°	1033.4	1050.8	1052.6	1074.4	1085.7
57.5°	956.6	974.9	978.4	1000.2	1010.7
60°	879.0	896.5	901.7	923.5	929.6
62.5°	797.9	818.8	821.5	838.9	842.4
65°	715.1	736.0	742.1	749.1	750.0
67.5°	630.5	652.3	658.4	658.4	658.4
70°	544.2	564.2	569.4	566.0	566.0
72.5°	456.9	478.8	476.1	472.6	474.4
75°	369.7	392.4	385.4	384.6	388.1
77.5°	286.0	307.8	296.5	303.5	304.3
80°	204.9	221.5	215.4	225.9	226.7
82.5°	131.7	142.1	143.9	152.6	150.0
85°	68.9	75.9	80.2	89.8	84.6
87.5°	21.8	28.8	26.2	30.5	23.5
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	18.54	20.19	18.90	20.51	20.82	18.76	20.41	19.12	20.73	21.04
	3H	20.36	21.86	20.74	22.19	22.54	20.56	22.05	20.93	22.38	22.74
	4H	21.01	22.42	21.40	22.77	23.14	21.19	22.61	21.59	22.95	23.33
	6H	21.43	22.74	21.85	23.11	23.50	21.65	22.96	22.06	23.32	23.71
	8H	21.54	22.80	21.97	23.18	23.58	21.78	23.03	22.20	23.42	23.82
	12H	21.60	22.80	22.03	23.18	23.61	21.85	23.05	22.28	23.44	23.86
4H	2H	19.22	20.63	19.62	20.98	21.35	19.39	20.80	19.79	21.15	21.52
	3H	21.26	22.44	21.67	22.84	23.24	21.40	22.59	21.81	22.98	23.38
	4H	22.04	23.11	22.47	23.52	23.96	22.16	23.23	22.59	23.65	24.08
	6H	22.59	23.53	23.04	23.97	24.42	22.73	23.67	23.19	24.11	24.57
	8H	22.74	23.61	23.19	24.05	24.52	22.91	23.79	23.37	24.23	24.69
	12H	22.82	23.61	23.30	24.08	24.55	23.02	23.81	23.50	24.29	24.76
8H	4H	22.35	23.22	22.81	23.67	24.13	22.46	23.33	22.91	23.77	24.24
	6H	23.01	23.74	23.50	24.22	24.70	23.14	23.87	23.63	24.35	24.83
	8H	23.21	23.87	23.72	24.37	24.86	23.38	24.03	23.88	24.53	25.02
	12H	23.35	23.92	23.85	24.41	24.97	23.55	24.13	24.06	24.62	25.18
12H	4H	22.38	23.17	22.86	23.64	24.11	22.48	23.27	22.96	23.75	24.22
	6H	23.05	23.71	23.56	24.21	24.70	23.18	23.83	23.69	24.34	24.82
	8H	23.31	23.89	23.81	24.38	24.93	23.47	24.05	23.97	24.54	25.10