

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: P1585821

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585821
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-L850
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 6200 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

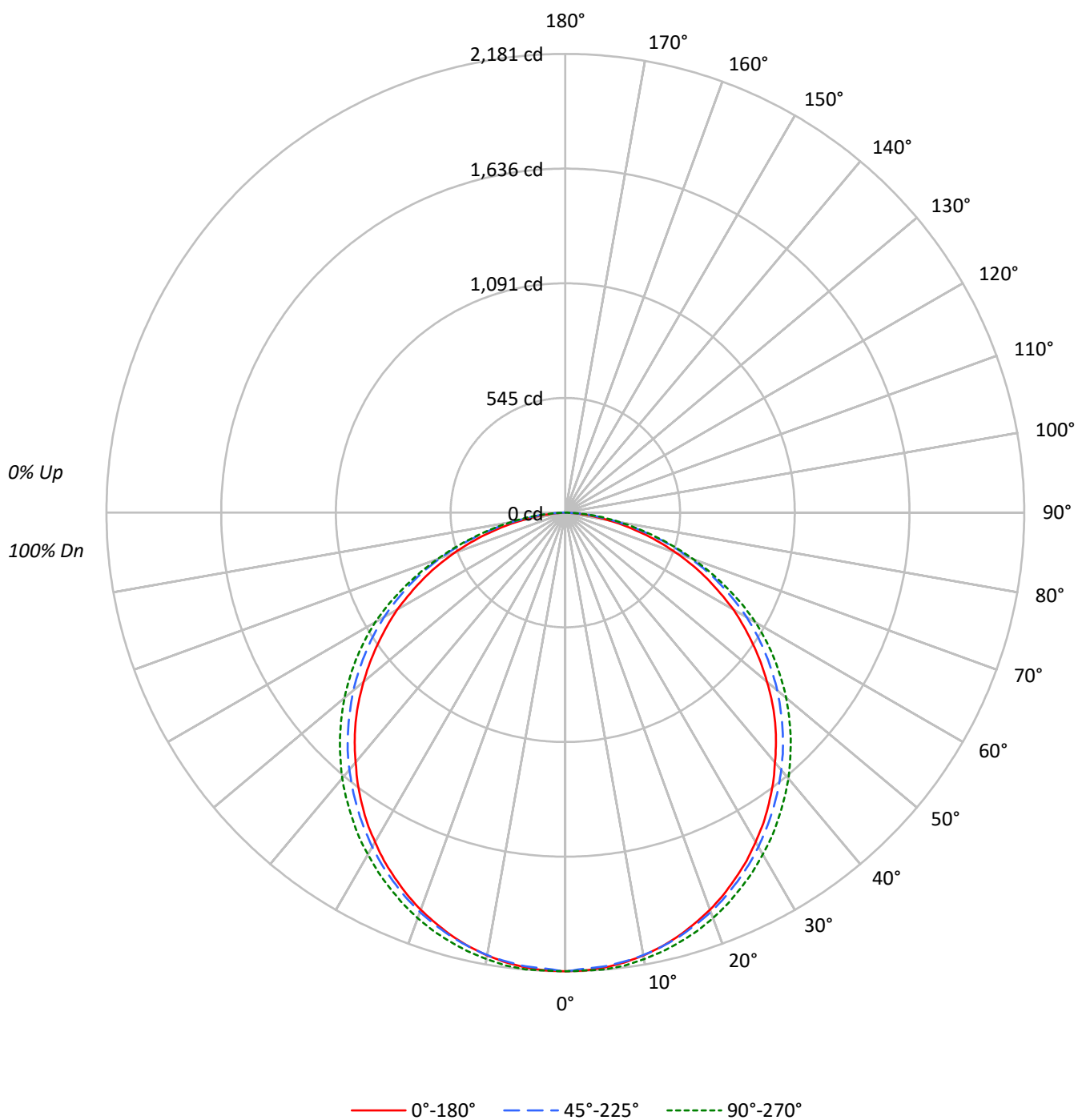
Lumens per Lamp: N/A
Luminaire Lumens: 6300.0 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7348	7348	7348
5°	7342	7324	7373
10°	7315	7309	7374
15°	7269	7284	7370
20°	7205	7247	7357
25°	7126	7193	7328
30°	7037	7139	7302
35°	6939	7081	7276
40°	6818	7022	7257
45°	6720	6958	7218
50°	6560	6893	7183
55°	6392	6803	7128
60°	6220	6703	7033
65°	5940	6527	6765
70°	5543	6231	6383
75°	4938	5648	5813
80°	4032	4896	5142
85°	2668	3893	4175

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7218 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.5	3.3
10°-20°	591.6	9.4
20°-30°	895.7	14.2
30°-40°	1081.2	17.2
40°-50°	1129.1	17.9
50°-60°	1032.9	16.4
60°-70°	798.5	12.7
70°-80°	452.1	7.2
80°-90°	112.3	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°	1693.9	26.9
0°-40°	2775.1	44.0
0°-60°	4937.1	78.4
0°-90°	6300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6300.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2181	2181	2181	2181	2181	
5°	2171	2186	2165	2167	2180	206
15°	2084	2102	2088	2098	2113	588
25°	1917	1941	1935	1953	1971	883
35°	1687	1711	1722	1750	1769	1055
45°	1410	1438	1460	1497	1515	1086
55°	1088	1121	1158	1194	1213	973
65°	745	776	819	843	848	735
75°	379	412	434	445	446	402
85°	69	80	101	105	108	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2180.7	2180.7	2180.7	2180.7	2180.7
2.5°	2178.0	2193.4	2169.8	2174.3	2178.9
5°	2170.7	2186.1	2165.3	2167.1	2179.8
7.5°	2157.1	2174.3	2152.6	2156.2	2171.6
10°	2138.0	2155.3	2136.2	2139.9	2155.3
12.5°	2113.5	2130.8	2114.4	2119.9	2137.1
15°	2083.6	2101.7	2088.1	2098.1	2112.6
17.5°	2047.3	2070.0	2055.5	2070.9	2085.4
20°	2009.2	2031.9	2021.0	2034.6	2051.8
22.5°	1965.6	1988.3	1980.1	1994.7	2013.7
25°	1916.6	1941.1	1934.8	1952.9	1971.1
27.5°	1865.8	1889.4	1887.6	1907.5	1926.6
30°	1808.6	1834.0	1834.9	1858.5	1876.7
32.5°	1751.5	1774.1	1779.6	1805.9	1826.8
35°	1687.0	1710.6	1721.5	1750.5	1768.7
37.5°	1621.7	1648.0	1659.8	1691.6	1710.6
40°	1550.0	1579.9	1596.3	1629.9	1649.8
42.5°	1481.9	1509.2	1530.9	1564.5	1582.7
45°	1410.2	1437.5	1460.2	1497.4	1514.6
47.5°	1333.1	1363.0	1387.6	1423.9	1442.9
50°	1251.4	1284.1	1315.0	1350.3	1370.3
52.5°	1170.7	1202.4	1237.8	1272.3	1292.3
55°	1088.1	1120.7	1158.0	1194.3	1213.3
57.5°	1004.6	1037.3	1078.1	1110.8	1130.7
60°	922.9	952.9	994.6	1027.3	1043.6
62.5°	830.4	864.8	907.5	940.2	949.2
65°	745.0	775.9	818.6	843.1	848.5
67.5°	654.3	685.2	727.8	741.4	749.6
70°	562.6	595.3	632.5	641.6	647.9
72.5°	470.1	503.7	532.7	541.8	547.2
75°	379.3	412.0	433.8	444.7	446.5
77.5°	291.3	321.3	341.2	353.9	353.9
80°	207.8	230.5	252.3	265.9	265.0
82.5°	132.5	149.7	172.4	182.4	188.8
85°	69.0	79.9	100.7	105.3	108.0
87.5°	21.8	28.1	36.3	29.9	29.0
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	18.61	20.26	18.97	20.57	20.89	19.15	20.80	19.52	21.12	21.43
	3H	20.38	21.88	20.76	22.20	22.56	21.01	22.50	21.39	22.83	23.19
	4H	21.01	22.41	21.40	22.76	23.14	21.68	23.09	22.08	23.44	23.81
	6H	21.41	22.72	21.82	23.08	23.47	22.17	23.47	22.58	23.84	24.23
	8H	21.51	22.76	21.94	23.15	23.55	22.32	23.57	22.75	23.96	24.36
	12H	21.56	22.76	21.99	23.14	23.57	22.42	23.62	22.85	24.00	24.43
4H	2H	19.35	20.76	19.75	21.10	21.48	19.77	21.18	20.17	21.53	21.90
	3H	21.34	22.52	21.75	22.92	23.32	21.85	23.03	22.26	23.43	23.83
	4H	22.09	23.16	22.52	23.57	24.01	22.65	23.72	23.08	24.13	24.57
	6H	22.61	23.54	23.06	23.98	24.44	23.26	24.20	23.72	24.64	25.09
	8H	22.74	23.62	23.20	24.06	24.53	23.47	24.34	23.93	24.78	25.25
	12H	22.82	23.61	23.30	24.08	24.55	23.61	24.39	24.09	24.87	25.34
8H	4H	22.44	23.32	22.90	23.76	24.23	22.94	23.81	23.40	24.26	24.72
	6H	23.08	23.81	23.57	24.29	24.77	23.67	24.40	24.16	24.89	25.36
	8H	23.27	23.92	23.78	24.43	24.91	23.95	24.60	24.45	25.10	25.59
	12H	23.40	23.97	23.90	24.46	25.02	24.15	24.73	24.66	25.22	25.78
12H	4H	22.49	23.27	22.97	23.75	24.22	22.96	23.75	23.44	24.23	24.69
	6H	23.14	23.80	23.65	24.30	24.79	23.71	24.37	24.22	24.87	25.36
	8H	23.39	23.97	23.90	24.46	25.02	24.04	24.62	24.55	25.11	25.67