

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: P1585819

Luminaire Tested: 14CZSP-SB-60VHE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585819
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-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6200 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

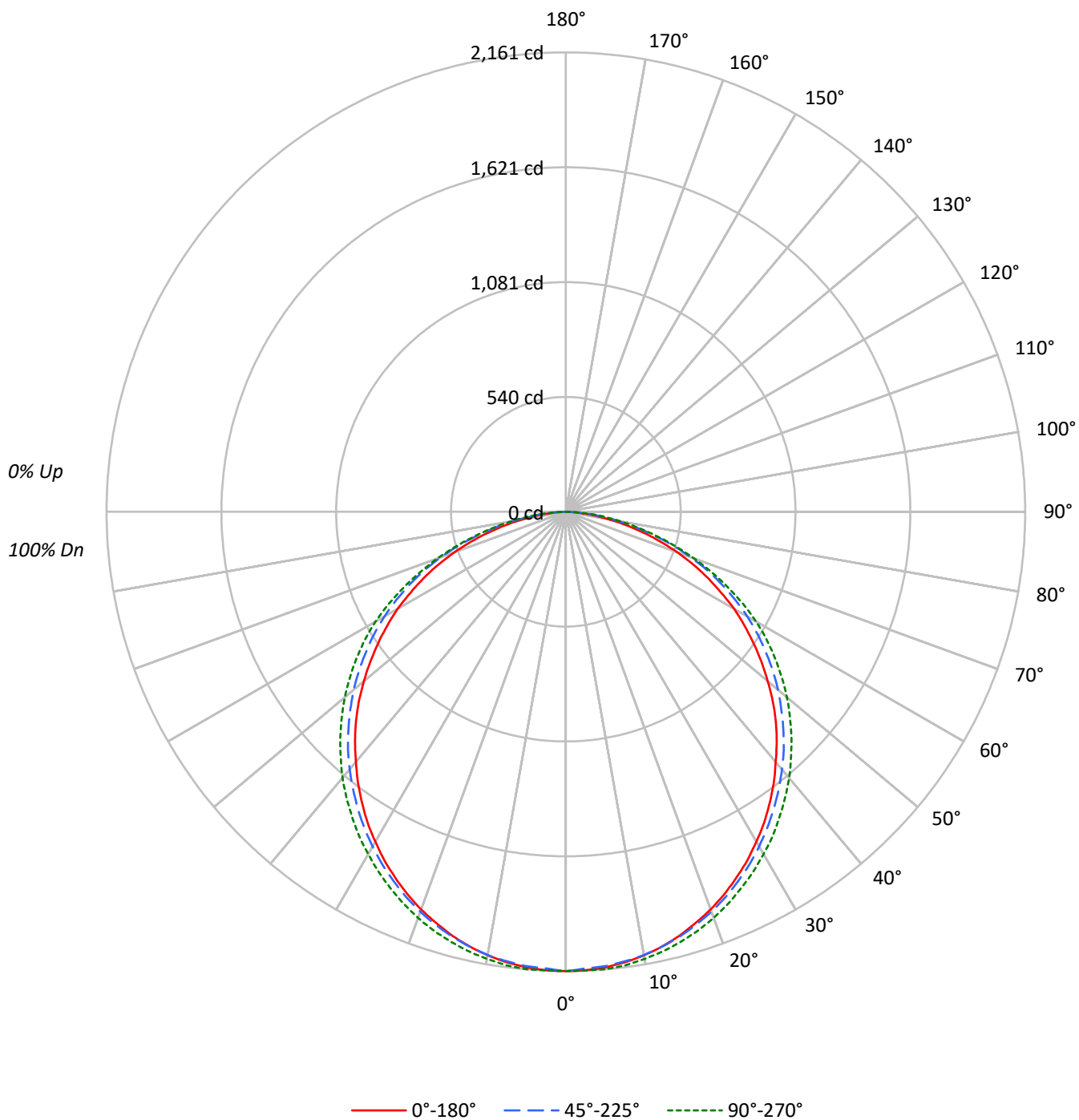
Lumens per Lamp: N/A
Luminaire Lumens: 6243.0 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	7282	7282	7282
5°	7276	7258	7306
10°	7249	7243	7308
15°	7203	7218	7303
20°	7139	7181	7291
25°	7061	7128	7262
30°	6974	7075	7236
35°	6877	7017	7210
40°	6756	6958	7191
45°	6660	6895	7152
50°	6501	6831	7118
55°	6334	6741	7063
60°	6164	6642	6970
65°	5887	6467	6704
70°	5493	6175	6326
75°	4894	5597	5760
80°	3995	4851	5096
85°	2641	3858	4137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7152 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	3.3
10°-20°	586.3	9.4
20°-30°	887.6	14.2
30°-40°	1071.4	17.2
40°-50°	1118.9	17.9
50°-60°	1023.6	16.4
60°-70°	791.3	12.7
70°-80°	448.0	7.2
80°-90°	111.3	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°	1678.6	26.9
0°-40°	2750.0	44.0
0°-60°	4892.4	78.4
0°-90°	6243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6243.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2161	2161	2161	2161	2161	
5°	2151	2166	2146	2148	2160	204
15°	2065	2083	2069	2079	2094	582
25°	1899	1924	1917	1935	1953	875
35°	1672	1695	1706	1735	1753	1046
45°	1398	1424	1447	1484	1501	1076
55°	1078	1111	1148	1184	1202	964
65°	738	769	811	835	841	729
75°	376	408	430	441	442	399
85°	68	79	100	104	107	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2161.0	2161.0	2161.0	2161.0	2161.0
2.5°	2158.3	2173.6	2150.2	2154.7	2159.2
5°	2151.1	2166.4	2145.7	2147.5	2160.1
7.5°	2137.6	2154.7	2133.1	2136.7	2152.0
10°	2118.7	2135.8	2116.9	2120.5	2135.8
12.5°	2094.4	2111.5	2095.3	2100.7	2117.8
15°	2064.7	2082.7	2069.2	2079.1	2093.5
17.5°	2028.8	2051.3	2036.9	2052.2	2066.5
20°	1991.0	2013.5	2002.7	2016.2	2033.3
22.5°	1947.8	1970.3	1962.2	1976.6	1995.5
25°	1899.3	1923.6	1917.3	1935.2	1953.2
27.5°	1848.9	1872.3	1870.5	1890.3	1909.2
30°	1792.3	1817.4	1818.3	1841.7	1859.7
32.5°	1735.6	1758.1	1763.5	1789.6	1810.2
35°	1671.8	1695.1	1705.9	1734.7	1752.7
37.5°	1607.0	1633.1	1644.8	1676.3	1695.1
40°	1536.0	1565.6	1581.8	1615.1	1634.9
42.5°	1468.5	1495.5	1517.1	1550.4	1568.3
45°	1397.5	1424.5	1446.9	1483.8	1500.9
47.5°	1321.0	1350.7	1375.0	1411.0	1429.9
50°	1240.1	1272.5	1303.1	1338.1	1357.9
52.5°	1160.1	1191.5	1226.6	1260.8	1280.6
55°	1078.2	1110.6	1147.5	1183.5	1202.3
57.5°	995.5	1027.9	1068.3	1100.7	1120.5
60°	914.6	944.2	985.6	1018.0	1034.2
62.5°	822.8	857.0	899.3	931.7	940.6
65°	738.3	768.9	811.1	835.4	840.8
67.5°	648.4	679.0	721.2	734.7	742.8
70°	557.6	589.9	626.8	635.8	642.1
72.5°	465.8	499.1	527.9	536.9	542.3
75°	375.9	408.3	429.9	440.6	442.4
77.5°	288.7	318.3	338.1	350.7	350.7
80°	205.9	228.4	250.0	263.5	262.6
82.5°	131.3	148.4	170.9	180.8	187.0
85°	68.3	79.1	99.8	104.3	107.0
87.5°	21.6	27.9	36.0	29.7	28.8
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	20.23	18.94	20.54	20.86	19.12	20.77	19.48	21.08	21.40
	3H	20.35	21.84	20.73	22.17	22.53	20.98	22.47	21.36	22.80	23.16
	4H	20.97	22.38	21.37	22.73	23.10	21.65	23.06	22.05	23.41	23.78
	6H	21.38	22.68	21.79	23.05	23.44	22.14	23.44	22.55	23.81	24.20
	8H	21.48	22.73	21.90	23.12	23.51	22.29	23.54	22.72	23.93	24.33
	12H	21.53	22.72	21.96	23.11	23.53	22.39	23.59	22.82	23.97	24.40
4H	2H	19.32	20.72	19.71	21.07	21.45	19.74	21.15	20.14	21.49	21.87
	3H	21.31	22.49	21.72	22.89	23.29	21.82	23.00	22.23	23.40	23.80
	4H	22.06	23.13	22.49	23.54	23.98	22.62	23.69	23.05	24.10	24.54
	6H	22.58	23.51	23.03	23.95	24.41	23.23	24.17	23.69	24.61	25.06
	8H	22.71	23.59	23.17	24.03	24.49	23.44	24.31	23.90	24.75	25.22
	12H	22.79	23.58	23.27	24.05	24.52	23.58	24.36	24.05	24.84	25.31
8H	4H	22.41	23.29	22.87	23.73	24.19	22.91	23.78	23.37	24.22	24.69
	6H	23.05	23.77	23.54	24.26	24.74	23.64	24.37	24.13	24.85	25.33
	8H	23.24	23.89	23.75	24.40	24.88	23.91	24.57	24.42	25.07	25.56
	12H	23.37	23.94	23.87	24.43	24.99	24.12	24.70	24.63	25.19	25.75
12H	4H	22.45	23.24	22.93	23.72	24.18	22.93	23.72	23.41	24.19	24.66
	6H	23.11	23.76	23.62	24.27	24.75	23.68	24.34	24.19	24.84	25.33
	8H	23.36	23.94	23.87	24.43	24.99	24.01	24.59	24.52	25.08	25.64

END OF REPORT