

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: P1585829

Luminaire Tested: 14CZSP-SB-60VHE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585829
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-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6200 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

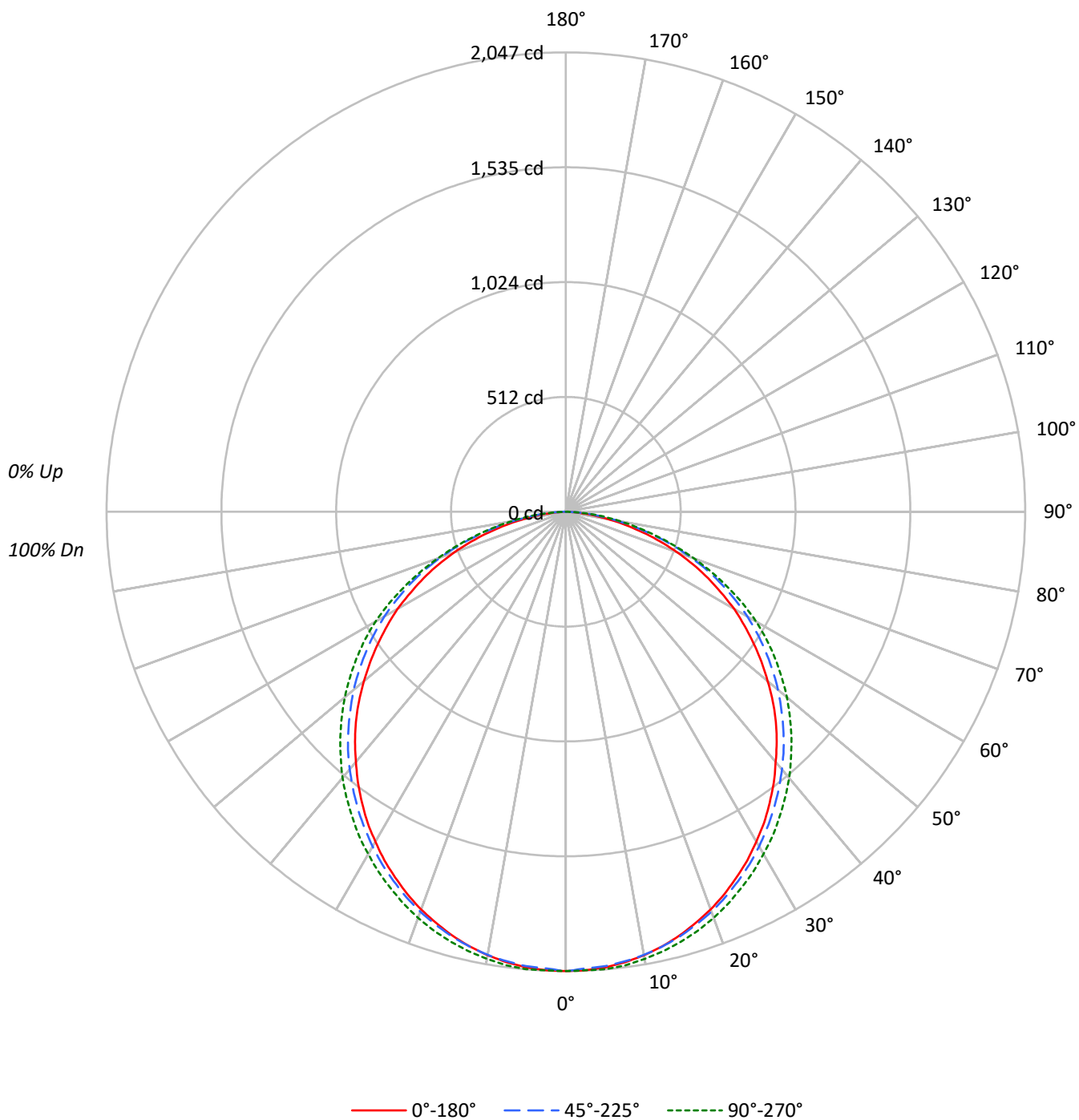
Lumens per Lamp: N/A
Luminaire Lumens: 5913.0 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1585829

CATALOG NUMBER: 14CZSP-SB-60VHE-L945

Luminous Intensity Polar Plot



TEST NUMBER: P1585829

CATALOG NUMBER: 14CZSP-SB-60VHE-L945

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°	6897	6897	6897
5°	6891	6874	6920
10°	6866	6860	6921
15°	6822	6837	6917
20°	6762	6802	6906
25°	6688	6751	6878
30°	6605	6701	6853
35°	6513	6647	6828
40°	6399	6590	6811
45°	6307	6531	6774
50°	6157	6470	6742
55°	5999	6385	6690
60°	5837	6291	6601
65°	5576	6126	6350
70°	5203	5849	5991
75°	4635	5300	5456
80°	3784	4595	4826
85°	2501	3654	3920

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6774 cd/sqm

TEST NUMBER: P1585829

CATALOG NUMBER: 14CZSP-SB-60VHE-L945

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	3.3
10°-20°	555.3	9.4
20°-30°	840.7	14.2
30°-40°	1014.8	17.2
40°-50°	1059.8	17.9
50°-60°	969.5	16.4
60°-70°	749.5	12.7
70°-80°	424.3	7.2
80°-90°	105.4	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°	1589.8	26.9
0°-40°	2604.6	44.0
0°-60°	4633.8	78.4
0°-90°	5913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2047	2047	2047	2047	2047	
5°	2037	2052	2032	2034	2046	193
15°	1956	1973	1960	1969	1983	551
25°	1799	1822	1816	1833	1850	829
35°	1583	1606	1616	1643	1660	990
45°	1324	1349	1370	1405	1422	1019
55°	1021	1052	1087	1121	1139	913
65°	699	728	768	791	796	690
75°	356	387	407	417	419	377
85°	65	75	94	99	101	83
90°	0	0	0	0	0	

TEST NUMBER: P1585829

CATALOG NUMBER: 14CZSP-SB-60VHE-L945

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2046.7	2046.7	2046.7	2046.7	2046.7
2.5°	2044.2	2058.7	2036.5	2040.8	2045.0
5°	2037.4	2051.9	2032.3	2034.0	2045.9
7.5°	2024.6	2040.8	2020.3	2023.7	2038.2
10°	2006.7	2022.9	2005.0	2008.4	2022.9
12.5°	1983.7	1999.9	1984.6	1989.7	2005.9
15°	1955.6	1972.6	1959.9	1969.2	1982.9
17.5°	1921.5	1942.8	1929.2	1943.7	1957.3
20°	1885.8	1907.1	1896.8	1909.6	1925.8
22.5°	1844.9	1866.2	1858.5	1872.1	1890.0
25°	1798.9	1821.9	1815.9	1833.0	1850.0
27.5°	1751.2	1773.3	1771.6	1790.4	1808.3
30°	1697.5	1721.4	1722.2	1744.4	1761.4
32.5°	1643.9	1665.2	1670.3	1695.0	1714.6
35°	1583.4	1605.5	1615.8	1643.0	1660.0
37.5°	1522.1	1546.8	1557.8	1587.6	1605.5
40°	1454.8	1482.9	1498.2	1529.7	1548.5
42.5°	1390.9	1416.4	1436.9	1468.4	1485.4
45°	1323.6	1349.2	1370.5	1405.4	1421.6
47.5°	1251.2	1279.3	1302.3	1336.4	1354.3
50°	1174.6	1205.2	1234.2	1267.4	1286.1
52.5°	1098.7	1128.6	1161.8	1194.1	1212.9
55°	1021.2	1051.9	1086.8	1120.9	1138.8
57.5°	942.9	973.5	1011.9	1042.5	1061.3
60°	866.2	894.3	933.5	964.2	979.5
62.5°	779.3	811.7	851.7	882.4	890.9
65°	699.3	728.2	768.3	791.3	796.4
67.5°	614.1	643.1	683.1	695.9	703.5
70°	528.1	558.7	593.7	602.2	608.1
72.5°	441.2	472.7	500.0	508.5	513.6
75°	356.0	386.7	407.1	417.4	419.1
77.5°	273.4	301.5	320.3	332.2	332.2
80°	195.0	216.3	236.8	249.6	248.7
82.5°	124.4	140.5	161.8	171.2	177.2
85°	64.7	75.0	94.5	98.8	101.4
87.5°	20.4	26.4	34.1	28.1	27.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1585829

CATALOG NUMBER: 14CZSP-SB-60VHE-L945

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	18.39	20.04	18.75	20.35	20.67	18.93	20.58	19.29	20.89	21.21
	3H	20.16	21.66	20.54	21.98	22.34	20.79	22.28	21.17	22.61	22.97
	4H	20.79	22.19	21.18	22.54	22.92	21.46	22.87	21.86	23.22	23.59
	6H	21.19	22.50	21.60	22.86	23.25	21.95	23.25	22.36	23.62	24.01
	8H	21.29	22.54	21.72	22.93	23.33	22.10	23.35	22.53	23.74	24.14
	12H	21.34	22.53	21.77	22.92	23.34	22.20	23.40	22.63	23.78	24.21
4H	2H	19.13	20.54	19.53	20.88	21.26	19.55	20.96	19.95	21.30	21.68
	3H	21.12	22.30	21.53	22.70	23.10	21.63	22.81	22.04	23.21	23.61
	4H	21.87	22.94	22.30	23.35	23.79	22.43	23.50	22.86	23.91	24.35
	6H	22.39	23.32	22.84	23.76	24.22	23.04	23.98	23.50	24.42	24.87
	8H	22.52	23.40	22.98	23.84	24.31	23.25	24.12	23.71	24.56	25.03
	12H	22.60	23.39	23.08	23.86	24.33	23.39	24.17	23.87	24.65	25.12
8H	4H	22.22	23.10	22.68	23.54	24.01	22.72	23.59	23.18	24.04	24.50
	6H	22.86	23.58	23.35	24.07	24.55	23.45	24.18	23.94	24.67	25.14
	8H	23.05	23.70	23.56	24.21	24.69	23.72	24.38	24.23	24.88	25.37
	12H	23.18	23.75	23.68	24.24	24.80	23.93	24.51	24.44	25.00	25.56
12H	4H	22.27	23.05	22.75	23.53	24.00	22.74	23.53	23.22	24.00	24.47
	6H	22.92	23.58	23.43	24.08	24.57	23.49	24.15	24.00	24.65	25.14
	8H	23.17	23.75	23.68	24.24	24.80	23.82	24.40	24.33	24.89	25.45