

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: P1585817

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585817
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-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 6200 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

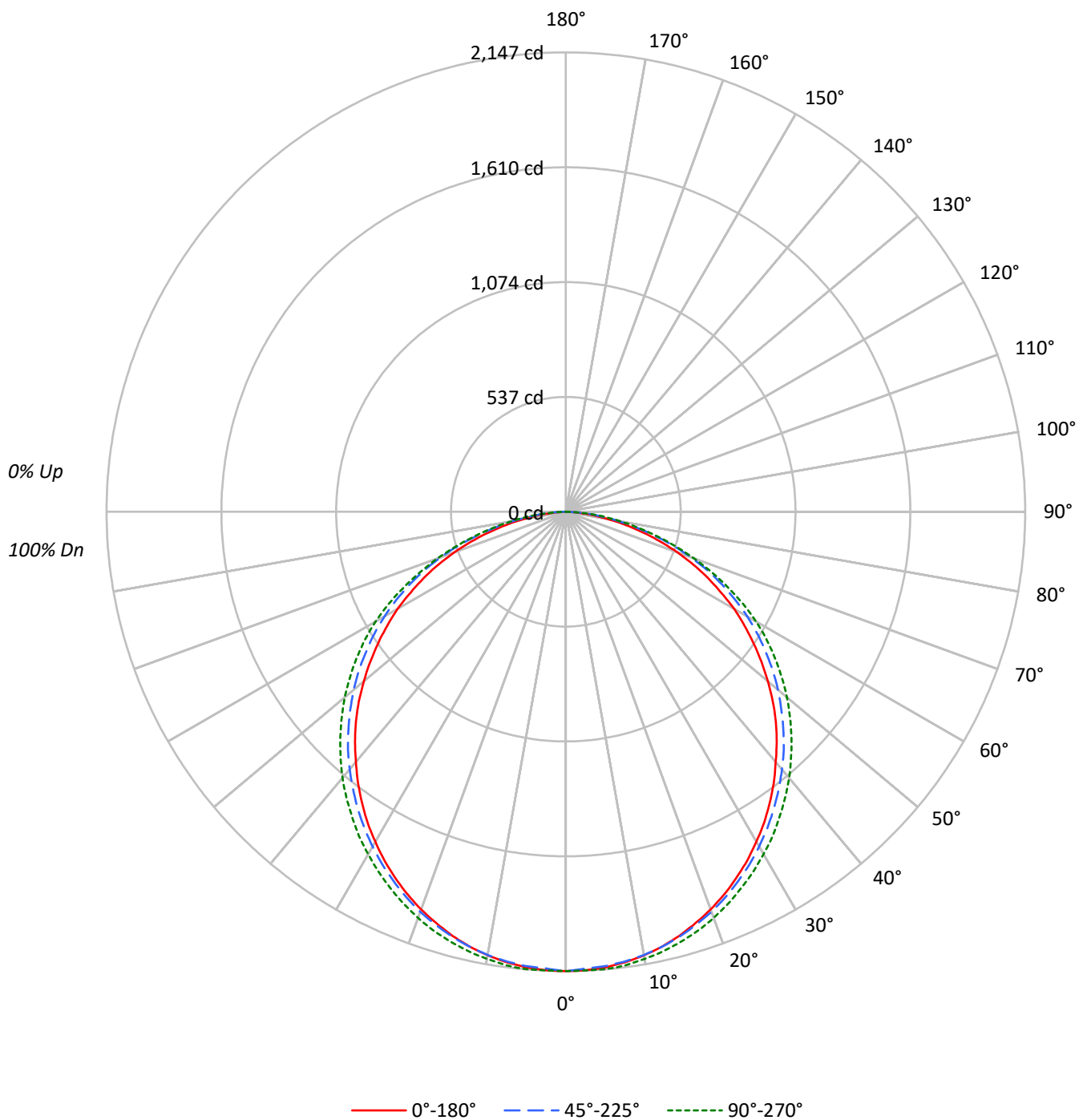
Lumens per Lamp: N/A
Luminaire Lumens: 6203.0 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7235	7235	7235
5°	7229	7211	7259
10°	7203	7197	7261
15°	7157	7172	7256
20°	7093	7135	7244
25°	7016	7083	7215
30°	6929	7030	7190
35°	6833	6972	7164
40°	6713	6913	7145
45°	6617	6851	7106
50°	6459	6787	7073
55°	6294	6698	7018
60°	6124	6600	6924
65°	5849	6426	6661
70°	5458	6136	6286
75°	4863	5560	5723
80°	3970	4820	5063
85°	2625	3835	4110

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7106 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	3.3
10°-20°	582.5	9.4
20°-30°	881.9	14.2
30°-40°	1064.5	17.2
40°-50°	1111.7	17.9
50°-60°	1017.0	16.4
60°-70°	786.2	12.7
70°-80°	445.1	7.2
80°-90°	110.6	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°	1667.8	26.9
0°-40°	2732.4	44.0
0°-60°	4861.1	78.4
0°-90°	6203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2147	2147	2147	2147	2147	
5°	2137	2152	2132	2134	2146	203
15°	2052	2069	2056	2066	2080	579
25°	1887	1911	1905	1923	1941	870
35°	1661	1684	1695	1724	1742	1039
45°	1388	1415	1438	1474	1491	1069
55°	1071	1104	1140	1176	1195	958
65°	734	764	806	830	835	724
75°	374	406	427	438	440	396
85°	68	79	99	104	106	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2147.1	2147.1	2147.1	2147.1	2147.1
2.5°	2144.4	2159.6	2136.4	2140.9	2145.3
5°	2137.3	2152.5	2131.9	2133.7	2146.2
7.5°	2123.9	2140.9	2119.4	2123.0	2138.2
10°	2105.1	2122.1	2103.3	2106.9	2122.1
12.5°	2081.0	2098.0	2081.9	2087.3	2104.2
15°	2051.5	2069.4	2056.0	2065.8	2080.1
17.5°	2015.8	2038.1	2023.8	2039.0	2053.3
20°	1978.2	2000.6	1989.9	2003.3	2020.2
22.5°	1935.4	1957.7	1949.7	1963.9	1982.7
25°	1887.1	1911.2	1905.0	1922.8	1940.7
27.5°	1837.1	1860.3	1858.5	1878.2	1896.9
30°	1780.8	1805.8	1806.7	1829.9	1847.8
32.5°	1724.5	1746.8	1752.2	1778.1	1798.6
35°	1661.0	1684.3	1695.0	1723.6	1741.5
37.5°	1596.7	1622.6	1634.2	1665.5	1684.3
40°	1526.1	1555.6	1571.7	1604.8	1624.4
42.5°	1459.1	1485.9	1507.4	1540.4	1558.3
45°	1388.5	1415.3	1437.7	1474.3	1491.3
47.5°	1312.6	1342.1	1366.2	1401.9	1420.7
50°	1232.2	1264.3	1294.7	1329.6	1349.2
52.5°	1152.6	1183.9	1218.8	1252.7	1272.4
55°	1071.3	1103.5	1140.1	1175.9	1194.6
57.5°	989.1	1021.3	1061.5	1093.7	1113.3
60°	908.7	938.2	979.3	1011.5	1027.5
62.5°	817.6	851.5	893.5	925.7	934.6
65°	733.6	764.0	806.0	830.1	835.4
67.5°	644.2	674.6	716.6	730.0	738.0
70°	554.0	586.1	622.8	631.7	638.0
72.5°	462.8	495.9	524.5	533.4	538.8
75°	373.5	405.7	427.1	437.8	439.6
77.5°	286.8	316.3	336.0	348.5	348.5
80°	204.6	227.0	248.4	261.8	260.9
82.5°	130.5	147.4	169.8	179.6	185.9
85°	67.9	78.6	99.2	103.6	106.3
87.5°	21.4	27.7	35.7	29.5	28.6
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	18.56	20.21	18.92	20.52	20.83	19.10	20.75	19.46	21.06	21.38
	3H	20.33	21.82	20.70	22.15	22.51	20.96	22.45	21.33	22.78	23.14
	4H	20.95	22.36	21.35	22.71	23.08	21.63	23.04	22.03	23.38	23.76
	6H	21.36	22.66	21.77	23.03	23.42	22.11	23.42	22.52	23.78	24.17
	8H	21.46	22.71	21.88	23.09	23.49	22.27	23.52	22.69	23.91	24.30
	12H	21.51	22.70	21.93	23.08	23.51	22.37	23.56	22.80	23.95	24.37
4H	2H	19.29	20.70	19.69	21.05	21.42	19.72	21.12	20.11	21.47	21.85
	3H	21.29	22.47	21.70	22.87	23.26	21.79	22.98	22.20	23.37	23.77
	4H	22.04	23.11	22.47	23.52	23.95	22.60	23.66	23.03	24.08	24.51
	6H	22.55	23.49	23.01	23.93	24.38	23.21	24.15	23.66	24.59	25.04
	8H	22.69	23.57	23.15	24.01	24.47	23.41	24.29	23.87	24.73	25.20
	12H	22.77	23.55	23.25	24.03	24.50	23.55	24.34	24.03	24.81	25.28
8H	4H	22.39	23.27	22.85	23.71	24.17	22.89	23.76	23.34	24.20	24.67
	6H	23.02	23.75	23.52	24.24	24.71	23.62	24.35	24.11	24.83	25.31
	8H	23.22	23.87	23.73	24.38	24.86	23.89	24.54	24.40	25.05	25.53
	12H	23.34	23.92	23.85	24.41	24.97	24.10	24.67	24.60	25.16	25.72
12H	4H	22.43	23.22	22.91	23.69	24.16	22.91	23.70	23.39	24.17	24.64
	6H	23.09	23.74	23.60	24.25	24.73	23.66	24.31	24.17	24.82	25.30
	8H	23.34	23.91	23.84	24.40	24.96	23.99	24.56	24.49	25.05	25.61