

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: P1584721

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-776-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-60VHE-L850
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 6200 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

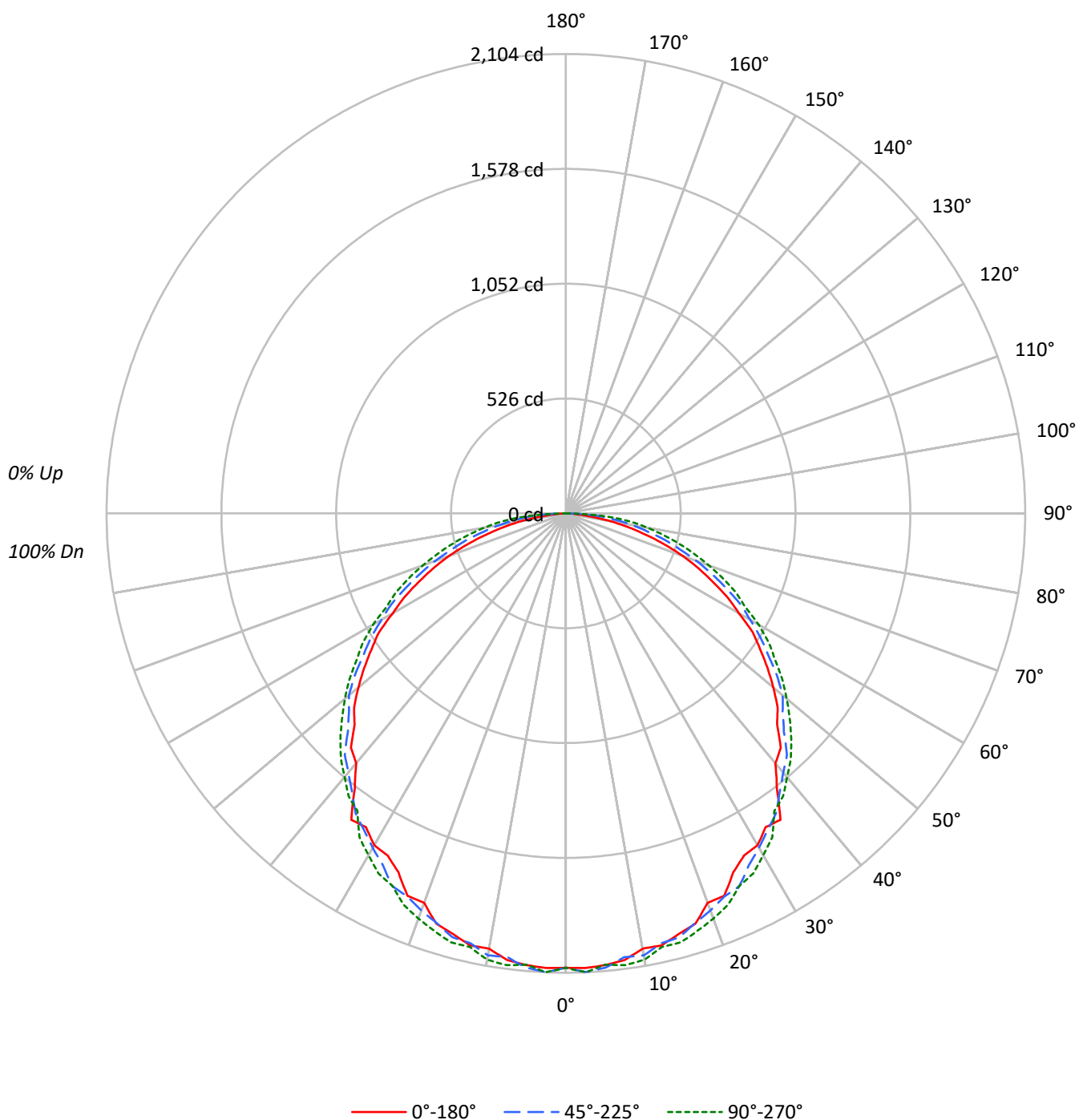
Lumens per Lamp: N/A
Luminaire Lumens: 6238.0 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78
3	89	78	70	63	87	77	69	63	74	67	61		71	65	60		68
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55
6	69	55	46	40	67	54	46	40	53	45	39		51	44	39		49
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7012	7012	7012
5°	7025	7065	7018
10°	6926	7033	7102
15°	6957	7009	7095
20°	6805	6940	7082
25°	6745	7000	6996
30°	6829	6883	7033
35°	7048	6902	6845
40°	6569	6815	6938
45°	6519	6729	6959
50°	6503	6795	6924
55°	6387	6645	6872
60°	6170	6568	6871
65°	5933	6454	6856
70°	5609	6275	6866
75°	4955	6128	6994
80°	4077	5971	7407
85°	2281	6302	8250

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 8250 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.2	3.2
10°-20°	566.2	9.1
20°-30°	860.4	13.8
30°-40°	1046.3	16.8
40°-50°	1098.3	17.6
50°-60°	1015.8	16.3
60°-70°	800.2	12.8
70°-80°	491.9	7.9
80°-90°	161.5	2.6
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°	1623.8	26.0
0°-40°	2670.2	42.8
0°-60°	4784.3	76.7
0°-90°	6238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6238.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2081	2081	2081	2081	2081	
5°	2077	2040	2089	2070	2075	197
15°	1994	1989	2009	2036	2034	562
25°	1814	1847	1883	1877	1882	843
35°	1713	1652	1678	1704	1664	1038
45°	1368	1397	1412	1453	1460	1064
55°	1087	1122	1131	1160	1170	972
65°	744	773	810	845	860	737
75°	381	422	471	519	537	405
85°	59	103	163	199	213	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2081.1	2081.1	2081.1	2081.1	2081.1
2.5°	2084.3	2087.5	2102.5	2069.3	2103.6
5°	2076.8	2040.4	2088.6	2070.4	2074.7
7.5°	2062.9	2067.2	2050.0	2060.7	2087.5
10°	2024.3	2051.1	2055.4	2059.7	2075.7
12.5°	2026.4	2009.3	2016.8	2047.9	2033.9
15°	1994.3	1988.9	2009.3	2036.1	2033.9
17.5°	1971.7	1959.9	1967.5	1980.3	2005.0
20°	1897.8	1928.9	1935.3	1975.0	1975.0
22.5°	1895.6	1894.5	1898.8	1919.2	1940.6
25°	1814.1	1847.4	1882.7	1877.4	1881.7
27.5°	1767.0	1804.5	1816.3	1852.7	1859.2
30°	1755.2	1761.6	1769.1	1808.8	1807.7
32.5°	1703.7	1714.4	1719.8	1742.3	1759.4
35°	1713.3	1652.2	1678.0	1703.7	1664.0
37.5°	1587.9	1597.5	1608.3	1627.6	1634.0
40°	1493.5	1518.2	1549.3	1571.8	1577.2
42.5°	1457.1	1493.5	1498.9	1519.3	1524.6
45°	1368.1	1397.1	1412.1	1452.8	1460.3
47.5°	1315.6	1319.9	1346.7	1385.3	1390.6
50°	1240.5	1269.5	1296.3	1313.4	1320.9
52.5°	1164.4	1196.6	1218.0	1234.1	1249.1
55°	1087.2	1121.5	1131.2	1160.1	1169.7
57.5°	1015.4	1026.1	1057.2	1085.0	1102.2
60°	915.6	952.1	974.6	1026.1	1019.6
62.5°	835.2	859.9	901.7	927.4	924.2
65°	744.1	773.0	809.5	844.9	859.9
67.5°	657.2	695.8	722.6	768.8	779.5
70°	569.3	587.6	636.9	681.9	696.9
72.5°	475.0	503.9	546.8	596.1	614.4
75°	380.6	422.4	470.7	518.9	537.2
77.5°	291.6	328.1	382.8	438.5	456.7
80°	210.1	243.4	307.7	359.2	381.7
82.5°	123.3	168.3	231.6	288.4	305.6
85°	59.0	102.9	163.0	199.4	213.4
87.5°	16.1	46.1	71.8	93.3	96.5
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	18.57	20.24	18.94	20.56	20.87	19.00	20.67	19.37	20.99	21.30
	3H	20.38	21.90	20.76	22.22	22.58	21.09	22.60	21.46	22.93	23.29
	4H	21.02	22.45	21.42	22.79	23.17	21.97	23.40	22.37	23.75	24.12
	6H	21.43	22.76	21.84	23.12	23.51	22.75	24.08	23.16	24.45	24.84
	8H	21.53	22.80	21.95	23.19	23.59	23.09	24.36	23.52	24.75	25.15
	12H	21.57	22.79	22.00	23.17	23.60	23.38	24.60	23.81	24.98	25.41
4H	2H	19.30	20.73	19.70	21.08	21.45	19.64	21.07	20.04	21.42	21.79
	3H	21.33	22.54	21.74	22.93	23.33	21.95	23.16	22.36	23.55	23.95
	4H	22.11	23.20	22.54	23.61	24.05	22.99	24.09	23.42	24.50	24.93
	6H	22.65	23.61	23.10	24.04	24.50	23.94	24.90	24.40	25.34	25.80
	8H	22.79	23.68	23.24	24.13	24.59	24.36	25.26	24.82	25.70	26.17
	12H	22.86	23.67	23.34	24.14	24.61	24.73	25.54	25.21	26.01	26.48
8H	4H	22.54	23.44	23.00	23.88	24.34	23.31	24.21	23.77	24.65	25.12
	6H	23.22	23.97	23.71	24.46	24.93	24.43	25.18	24.92	25.67	26.14
	8H	23.43	24.11	23.94	24.61	25.10	24.97	25.64	25.48	26.15	26.63
	12H	23.57	24.17	24.07	24.66	25.21	25.47	26.07	25.97	26.56	27.12
12H	4H	22.62	23.43	23.10	23.91	24.38	23.34	24.16	23.82	24.63	25.10
	6H	23.35	24.03	23.85	24.53	25.01	24.49	25.17	25.00	25.67	26.16
	8H	23.64	24.23	24.14	24.72	25.28	25.10	25.70	25.61	26.19	26.75