

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: P1584774

Luminaire Tested: 14CZSP-A-70VHE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-70VHE-L835-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 7200 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

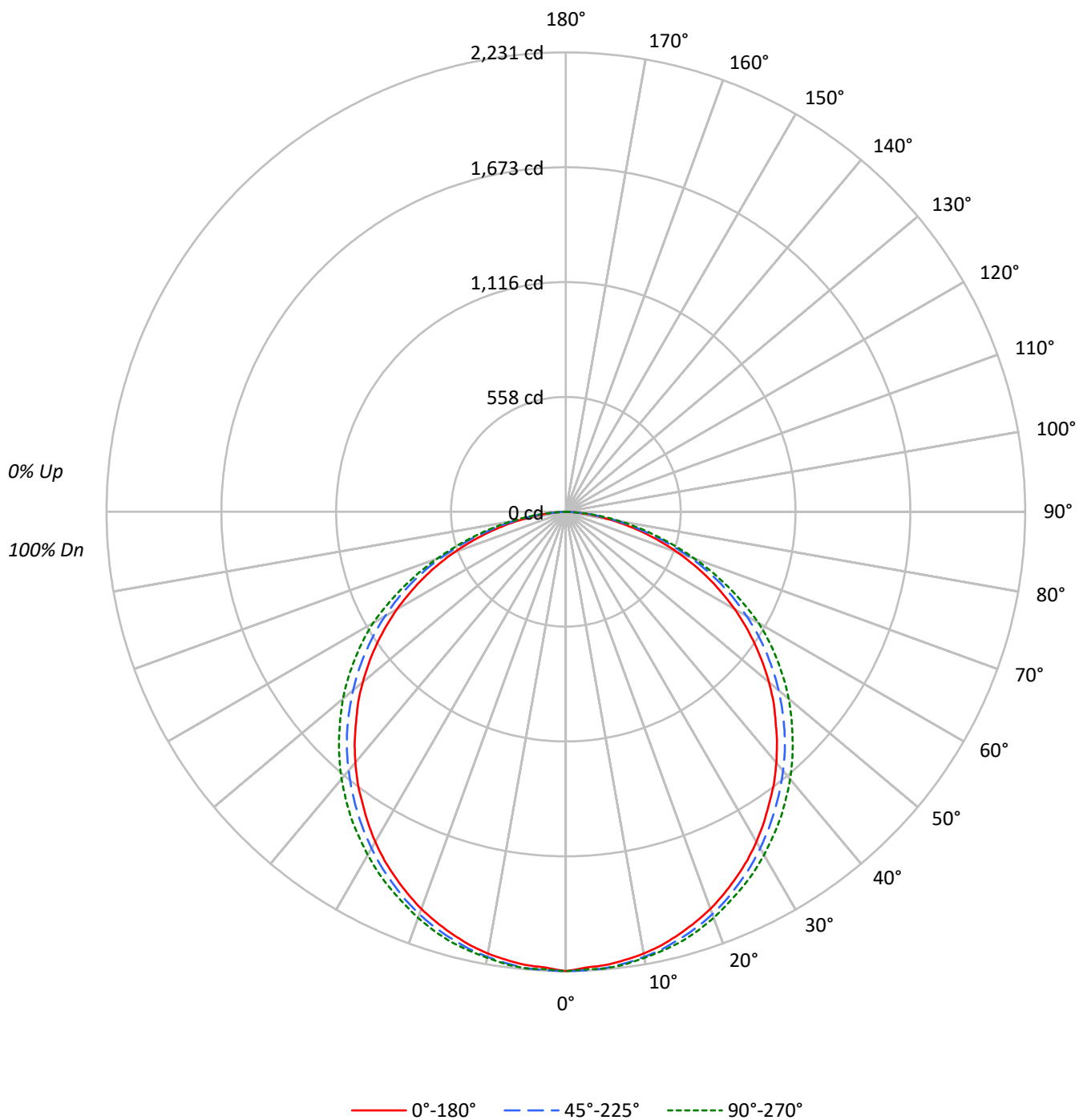
Lumens per Lamp: N/A
Luminaire Lumens: 6450.0 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 51.9
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	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	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	59	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°	7518	7518	7518
5°	7476	7524	7530
10°	7455	7510	7526
15°	7412	7488	7541
20°	7360	7459	7527
25°	7285	7402	7504
30°	7203	7344	7488
35°	7088	7280	7475
40°	6995	7220	7454
45°	6863	7157	7424
50°	6749	7072	7410
55°	6587	6971	7362
60°	6385	6833	7288
65°	6101	6646	6987
70°	5687	6276	6556
75°	5080	5661	5982
80°	4164	4772	5231
85°	2791	3487	3889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7424 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.3	3.3
10°-20°	605.8	9.4
20°-30°	917.2	14.2
30°-40°	1107.7	17.2
40°-50°	1157.6	17.9
50°-60°	1060.8	16.4
60°-70°	818.8	12.7
70°-80°	460.6	7.1
80°-90°	110.2	1.7
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°	1734.3	26.9
0°-40°	2842.0	44.1
0°-60°	5060.4	78.5
0°-90°	6450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6450.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2231	2231	2231	2231	2231	
5°	2210	2226	2224	2226	2226	210
15°	2125	2142	2147	2155	2162	600
25°	1960	1977	1991	2001	2018	903
35°	1723	1745	1770	1793	1817	1080
45°	1440	1469	1502	1532	1558	1113
55°	1121	1151	1187	1224	1253	1002
65°	765	798	834	867	876	756
75°	390	426	435	453	460	414
85°	72	83	90	99	101	93
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2231.1	2231.1	2231.1	2231.1	2231.1
2.5°	2215.9	2233.0	2229.2	2234.9	2224.4
5°	2210.2	2226.3	2224.4	2226.3	2226.3
7.5°	2195.9	2213.0	2212.1	2214.9	2216.8
10°	2178.8	2195.0	2195.0	2197.8	2199.7
12.5°	2155.1	2172.2	2174.1	2178.8	2182.6
15°	2124.7	2141.8	2146.6	2155.1	2161.8
17.5°	2090.6	2108.6	2116.2	2124.7	2133.3
20°	2052.6	2068.7	2080.1	2086.8	2099.1
22.5°	2008.0	2026.0	2038.3	2045.0	2058.3
25°	1959.5	1976.6	1990.9	2001.3	2018.4
27.5°	1908.3	1925.4	1942.4	1954.8	1974.7
30°	1851.3	1869.3	1887.4	1906.4	1924.4
32.5°	1789.6	1810.5	1830.4	1851.3	1871.2
35°	1723.1	1745.0	1769.7	1793.4	1817.1
37.5°	1661.4	1681.4	1707.0	1732.6	1756.4
40°	1590.2	1612.1	1641.5	1670.0	1694.7
42.5°	1518.1	1541.8	1574.1	1601.6	1628.2
45°	1440.2	1468.7	1501.9	1532.3	1557.9
47.5°	1368.1	1392.8	1426.0	1459.2	1485.8
50°	1287.4	1314.9	1349.1	1384.2	1413.6
52.5°	1205.7	1234.2	1269.3	1304.5	1334.8
55°	1121.2	1150.7	1186.7	1223.8	1253.2
57.5°	1034.8	1066.2	1103.2	1140.2	1169.6
60°	947.5	978.8	1013.9	1054.8	1081.4
62.5°	856.3	891.5	924.7	962.7	978.8
65°	765.2	798.4	833.6	866.8	876.3
67.5°	672.2	706.3	737.7	759.5	771.9
70°	577.2	614.3	637.0	657.9	665.5
72.5°	483.2	520.3	533.6	553.5	561.1
75°	390.2	426.3	434.8	452.9	459.5
77.5°	300.0	333.2	336.1	357.0	362.7
80°	214.6	241.1	245.9	265.8	269.6
82.5°	137.7	156.6	163.3	180.4	186.1
85°	72.2	82.6	90.2	98.7	100.6
87.5°	23.7	29.4	24.7	25.6	23.7
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	18.72	20.37	19.09	20.69	21.00	19.26	20.91	19.63	21.23	21.54
	3H	20.50	21.99	20.87	22.32	22.68	21.12	22.61	21.49	22.94	23.30
	4H	21.12	22.53	21.52	22.88	23.25	21.79	23.19	22.18	23.54	23.92
	6H	21.53	22.84	21.94	23.20	23.59	22.26	23.57	22.67	23.93	24.32
	8H	21.64	22.88	22.06	23.27	23.67	22.41	23.66	22.83	24.04	24.44
	12H	21.69	22.88	22.11	23.26	23.69	22.49	23.69	22.92	24.07	24.50
4H	2H	19.45	20.85	19.84	21.20	21.58	19.87	21.27	20.27	21.62	22.00
	3H	21.44	22.62	21.85	23.02	23.42	21.94	23.12	22.35	23.52	23.92
	4H	22.20	23.27	22.63	23.68	24.11	22.74	23.80	23.17	24.22	24.65
	6H	22.73	23.66	23.18	24.10	24.55	23.34	24.27	23.79	24.71	25.17
	8H	22.86	23.74	23.32	24.18	24.64	23.53	24.40	23.99	24.84	25.31
	12H	22.94	23.73	23.42	24.20	24.67	23.65	24.44	24.13	24.91	25.38
8H	4H	22.53	23.41	22.99	23.85	24.31	23.01	23.89	23.47	24.33	24.79
	6H	23.17	23.90	23.67	24.39	24.86	23.72	24.45	24.22	24.94	25.41
	8H	23.37	24.03	23.88	24.53	25.02	23.98	24.63	24.49	25.14	25.62
	12H	23.50	24.08	24.01	24.57	25.13	24.16	24.74	24.67	25.23	25.79
12H	4H	22.57	23.36	23.05	23.83	24.30	23.04	23.82	23.51	24.30	24.76
	6H	23.23	23.88	23.74	24.39	24.87	23.76	24.41	24.27	24.92	25.40
	8H	23.48	24.06	23.99	24.55	25.11	24.07	24.64	24.57	25.13	25.69