

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: P1584472

Luminaire Tested: 14CZSP-70VHE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584472
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-70VHE-L830-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 7200 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

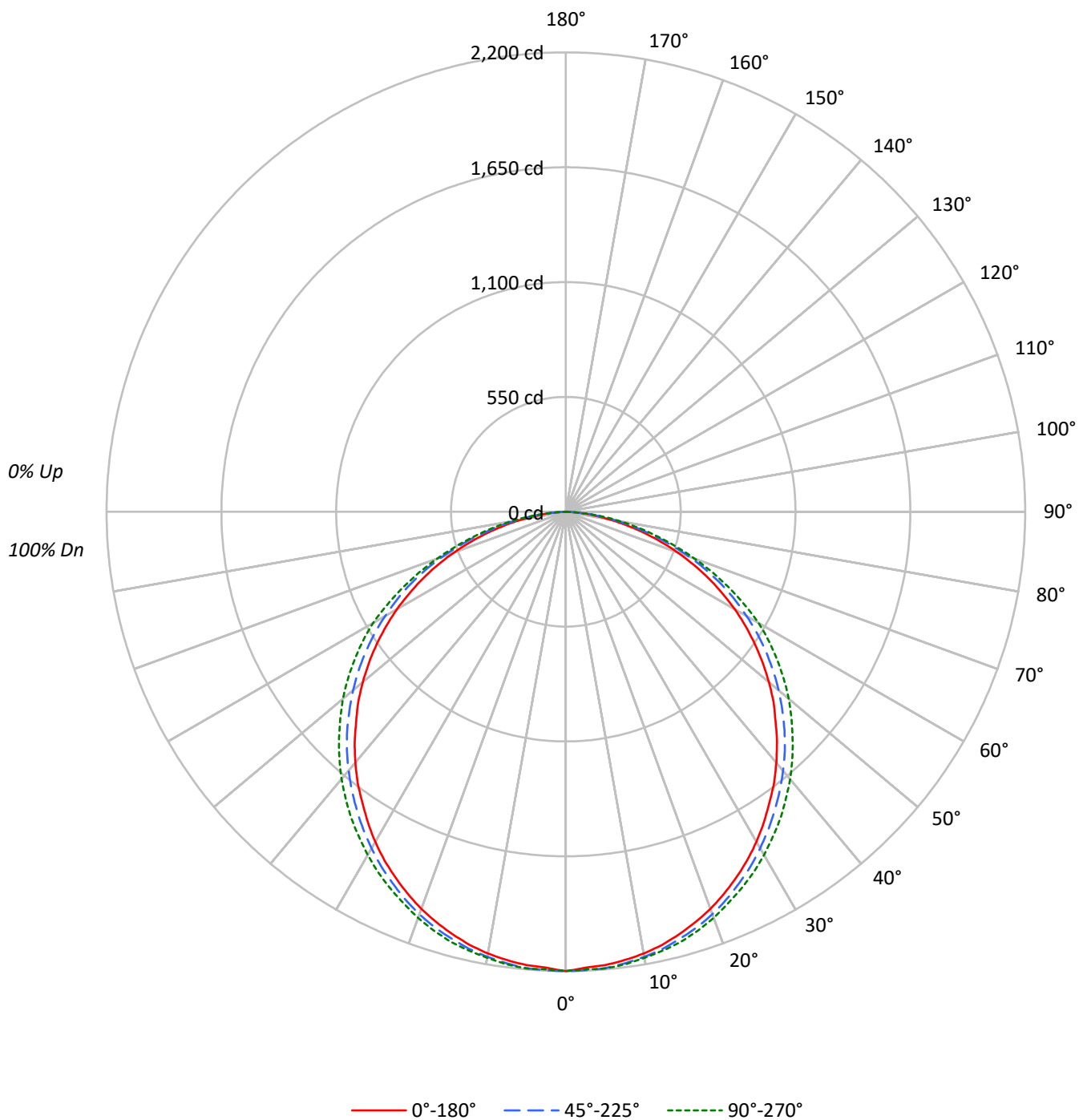
Lumens per Lamp: N/A
Luminaire Lumens: 6360.0 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	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	59	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°	7413	7413	7413
5°	7371	7419	7425
10°	7351	7406	7421
15°	7309	7384	7436
20°	7257	7355	7422
25°	7184	7299	7399
30°	7103	7241	7383
35°	6989	7178	7371
40°	6897	7120	7350
45°	6767	7057	7320
50°	6654	6974	7307
55°	6495	6875	7259
60°	6296	6738	7186
65°	6016	6553	6890
70°	5608	6189	6465
75°	5010	5583	5899
80°	4106	4706	5160
85°	2749	3437	3835

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7320 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.4	3.3
10°-20°	597.3	9.4
20°-30°	904.4	14.2
30°-40°	1092.2	17.2
40°-50°	1141.5	17.9
50°-60°	1046.0	16.4
60°-70°	807.4	12.7
70°-80°	454.2	7.1
80°-90°	108.7	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°	1710.1	26.9
0°-40°	2802.3	44.1
0°-60°	4989.8	78.5
0°-90°	6360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6360.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2200	2200	2200	2200	2200	
5°	2179	2195	2193	2195	2195	207
15°	2095	2112	2117	2125	2132	591
25°	1932	1949	1963	1973	1990	890
35°	1699	1721	1745	1768	1792	1065
45°	1420	1448	1481	1511	1536	1097
55°	1106	1135	1170	1207	1236	988
65°	754	787	822	855	864	746
75°	385	420	429	446	453	408
85°	71	81	89	97	99	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2199.9	2199.9	2199.9	2199.9	2199.9
2.5°	2185.0	2201.8	2198.1	2203.7	2193.4
5°	2179.3	2195.2	2193.4	2195.2	2195.2
7.5°	2165.3	2182.1	2181.2	2184.0	2185.9
10°	2148.4	2164.4	2164.4	2167.2	2169.0
12.5°	2125.0	2141.9	2143.8	2148.4	2152.2
15°	2095.1	2111.9	2116.6	2125.0	2131.6
17.5°	2061.4	2079.2	2086.7	2095.1	2103.5
20°	2023.9	2039.8	2051.1	2057.6	2069.8
22.5°	1979.9	1997.7	2009.9	2016.4	2029.6
25°	1932.2	1949.0	1963.1	1973.4	1990.2
27.5°	1881.6	1898.5	1915.3	1927.5	1947.2
30°	1825.5	1843.3	1861.0	1879.8	1897.6
32.5°	1764.6	1785.2	1804.9	1825.5	1845.1
35°	1699.1	1720.6	1745.0	1768.4	1791.8
37.5°	1638.2	1657.9	1683.2	1708.5	1731.9
40°	1568.0	1589.6	1618.6	1646.7	1671.0
42.5°	1496.9	1520.3	1552.1	1579.3	1605.5
45°	1420.1	1448.2	1481.0	1510.9	1536.2
47.5°	1349.0	1373.3	1406.1	1438.8	1465.1
50°	1269.4	1296.6	1330.3	1364.9	1393.9
52.5°	1188.9	1217.0	1251.6	1286.3	1316.2
55°	1105.6	1134.6	1170.2	1206.7	1235.7
57.5°	1020.4	1051.3	1087.8	1124.3	1153.3
60°	934.3	965.2	999.8	1040.1	1066.3
62.5°	844.4	879.0	911.8	949.2	965.2
65°	754.5	787.3	821.9	854.7	864.1
67.5°	662.8	696.5	727.4	748.9	761.1
70°	569.2	605.7	628.2	648.7	656.2
72.5°	476.5	513.0	526.1	545.8	553.3
75°	384.8	420.3	428.8	446.5	453.1
77.5°	295.8	328.6	331.4	352.0	357.6
80°	211.6	237.8	242.5	262.1	265.9
82.5°	135.7	154.5	161.0	177.9	183.5
85°	71.1	81.4	88.9	97.4	99.2
87.5°	23.4	29.0	24.3	25.3	23.4
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	18.67	20.32	19.04	20.64	20.95	19.21	20.86	19.58	21.18	21.49
	3H	20.45	21.94	20.82	22.27	22.63	21.07	22.56	21.45	22.89	23.25
	4H	21.07	22.48	21.47	22.83	23.20	21.74	23.14	22.14	23.49	23.87
	6H	21.48	22.79	21.89	23.15	23.54	22.21	23.52	22.62	23.88	24.27
	8H	21.59	22.83	22.01	23.22	23.62	22.36	23.61	22.78	24.00	24.39
	12H	21.64	22.83	22.07	23.21	23.64	22.44	23.64	22.87	24.02	24.45
4H	2H	19.40	20.80	19.79	21.15	21.53	19.82	21.23	20.22	21.57	21.95
	3H	21.39	22.57	21.80	22.97	23.37	21.89	23.07	22.30	23.47	23.87
	4H	22.15	23.22	22.58	23.63	24.07	22.69	23.75	23.12	24.17	24.60
	6H	22.68	23.61	23.13	24.05	24.50	23.29	24.22	23.74	24.66	25.12
	8H	22.82	23.69	23.28	24.13	24.60	23.48	24.35	23.94	24.80	25.26
	12H	22.89	23.68	23.37	24.15	24.62	23.60	24.39	24.08	24.86	25.33
8H	4H	22.49	23.36	22.95	23.80	24.27	22.96	23.84	23.42	24.28	24.74
	6H	23.13	23.85	23.62	24.34	24.81	23.68	24.40	24.17	24.89	25.36
	8H	23.33	23.98	23.83	24.48	24.97	23.93	24.58	24.44	25.09	25.57
	12H	23.46	24.03	23.96	24.52	25.08	24.11	24.69	24.62	25.18	25.74
12H	4H	22.52	23.31	23.00	23.78	24.25	22.99	23.77	23.47	24.25	24.72
	6H	23.18	23.83	23.69	24.34	24.82	23.71	24.36	24.22	24.87	25.36
	8H	23.43	24.01	23.94	24.50	25.06	24.02	24.59	24.53	25.08	25.64