

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: P1584481

Luminaire Tested: 14CZSP-70VHE-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584481
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-70VHE-L850
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 7200 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

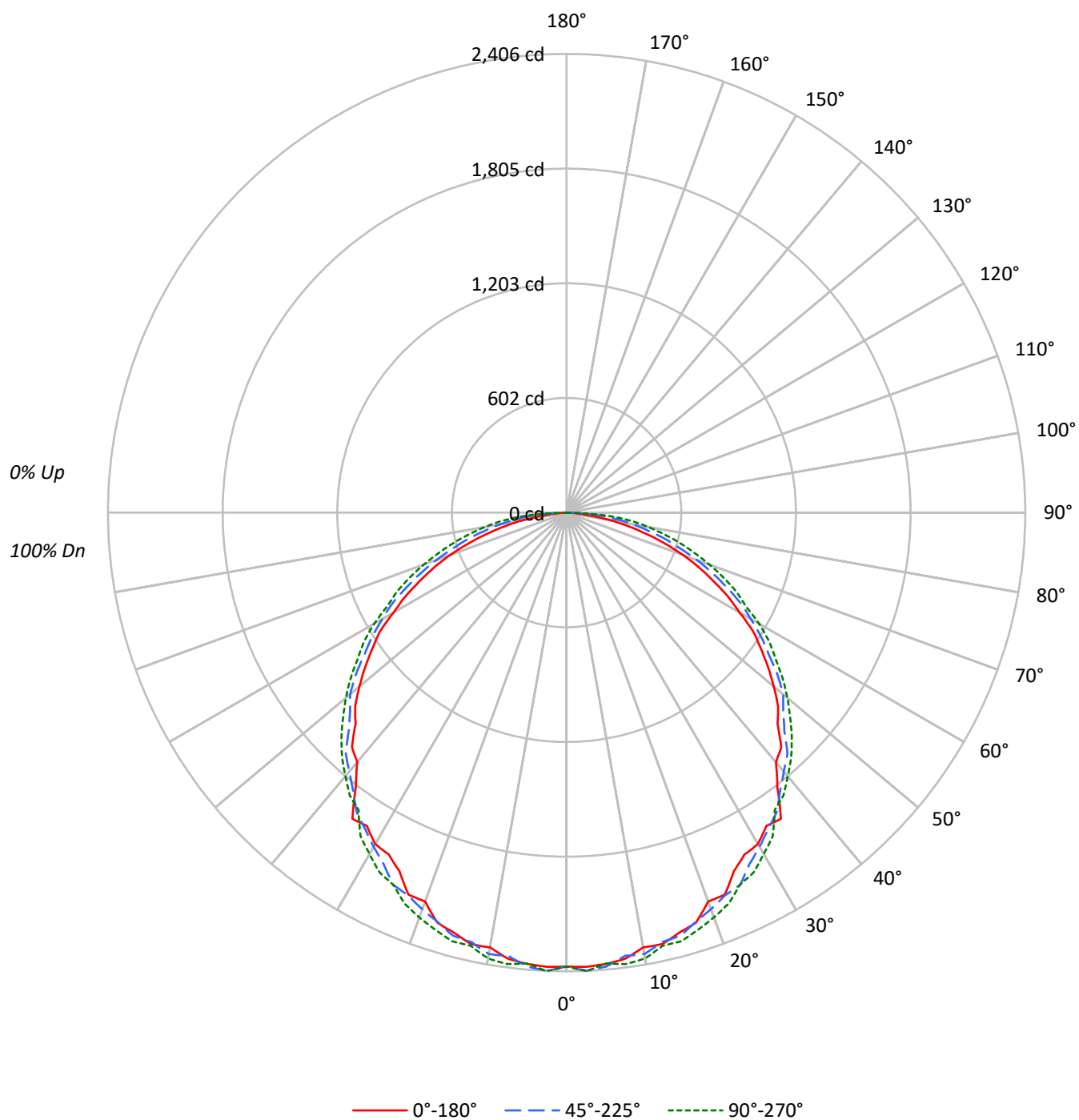
Lumens per Lamp: N/A
Luminaire Lumens: 7136.0 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61		71	65	60		68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8022	8022	8022
5°	8036	8082	8028
10°	7923	8045	8125
15°	7958	8018	8117
20°	7785	7939	8101
25°	7716	8008	8003
30°	7812	7874	8046
35°	8062	7896	7830
40°	7516	7796	7936
45°	7458	7697	7960
50°	7439	7774	7921
55°	7306	7602	7861
60°	7059	7513	7861
65°	6787	7383	7843
70°	6417	7178	7854
75°	5668	7009	8000
80°	4665	6830	8472
85°	2610	7207	9437

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 9437 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.6	3.2
10°-20°	647.7	9.1
20°-30°	984.3	13.8
30°-40°	1197.0	16.8
40°-50°	1256.5	17.6
50°-60°	1162.1	16.3
60°-70°	915.4	12.8
70°-80°	562.7	7.9
80°-90°	184.8	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°	1857.6	26.0
0°-40°	3054.6	42.8
0°-60°	5473.1	76.7
0°-90°	7136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7136.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2381	2381	2381	2381	2381	
5°	2376	2334	2389	2368	2373	225
15°	2281	2275	2298	2329	2327	643
25°	2075	2113	2154	2148	2153	964
35°	1960	1890	1920	1949	1904	1188
45°	1565	1598	1615	1662	1670	1217
55°	1244	1283	1294	1327	1338	1112
65°	851	884	926	966	984	843
75°	435	483	538	594	614	463
85°	68	118	186	228	244	94
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2380.7	2380.7	2380.7	2380.7	2380.7
2.5°	2384.4	2388.1	2405.2	2367.2	2406.4
5°	2375.8	2334.1	2389.3	2368.4	2373.3
7.5°	2359.8	2364.7	2345.1	2357.4	2388.1
10°	2315.7	2346.3	2351.3	2356.2	2374.6
12.5°	2318.1	2298.5	2307.1	2342.7	2326.7
15°	2281.3	2275.2	2298.5	2329.2	2326.7
17.5°	2255.6	2242.1	2250.7	2265.4	2293.6
20°	2171.0	2206.5	2213.9	2259.3	2259.3
22.5°	2168.5	2167.3	2172.2	2195.5	2220.0
25°	2075.3	2113.3	2153.8	2147.7	2152.6
27.5°	2021.3	2064.2	2077.7	2119.4	2126.8
30°	2007.8	2015.2	2023.8	2069.2	2067.9
32.5°	1949.0	1961.2	1967.4	1993.1	2012.7
35°	1960.0	1890.1	1919.5	1949.0	1903.6
37.5°	1816.5	1827.5	1839.8	1861.9	1869.2
40°	1708.6	1736.8	1772.3	1798.1	1804.2
42.5°	1666.9	1708.6	1714.7	1738.0	1744.1
45°	1565.0	1598.2	1615.3	1661.9	1670.5
47.5°	1505.0	1509.9	1540.5	1584.7	1590.8
50°	1419.1	1452.2	1482.9	1502.5	1511.1
52.5°	1332.0	1368.8	1393.3	1411.7	1428.9
55°	1243.7	1282.9	1294.0	1327.1	1338.1
57.5°	1161.5	1173.8	1209.4	1241.2	1260.9
60°	1047.5	1089.2	1114.9	1173.8	1166.4
62.5°	955.5	983.7	1031.5	1060.9	1057.3
65°	851.2	884.3	926.0	966.5	983.7
67.5°	751.9	796.0	826.7	879.4	891.7
70°	651.3	672.1	728.6	780.1	797.2
72.5°	543.4	576.5	625.5	681.9	702.8
75°	435.4	483.3	538.4	593.6	614.5
77.5°	333.6	375.3	437.9	501.7	522.5
80°	240.4	278.4	352.0	410.9	436.6
82.5°	141.1	192.6	264.9	329.9	349.6
85°	67.5	117.7	186.4	228.1	244.1
87.5°	18.4	52.7	82.2	106.7	110.4
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	19.04	20.71	19.40	21.02	21.34	19.47	21.14	19.84	21.45	21.77
	3H	20.85	22.36	21.22	22.69	23.05	21.56	23.07	21.93	23.40	23.76
	4H	21.48	22.91	21.88	23.26	23.64	22.44	23.87	22.83	24.21	24.59
	6H	21.90	23.23	22.31	23.59	23.98	23.22	24.55	23.63	24.91	25.30
	8H	22.00	23.27	22.42	23.66	24.05	23.56	24.83	23.98	25.22	25.62
	12H	22.04	23.26	22.47	23.64	24.07	23.85	25.06	24.28	25.45	25.87
4H	2H	19.77	21.20	20.17	21.55	21.92	20.11	21.54	20.50	21.88	22.26
	3H	21.80	23.00	22.21	23.40	23.80	22.42	23.63	22.83	24.02	24.42
	4H	22.57	23.67	23.01	24.08	24.52	23.46	24.55	23.89	24.97	25.40
	6H	23.11	24.07	23.57	24.51	24.97	24.41	25.37	24.86	25.81	26.26
	8H	23.25	24.15	23.71	24.59	25.06	24.83	25.73	25.29	26.17	26.63
	12H	23.33	24.14	23.81	24.61	25.08	25.20	26.01	25.67	26.48	26.95
8H	4H	23.01	23.91	23.47	24.35	24.81	23.78	24.68	24.24	25.12	25.58
	6H	23.69	24.44	24.18	24.92	25.40	24.90	25.65	25.39	26.13	26.61
	8H	23.90	24.57	24.41	25.08	25.56	25.44	26.11	25.94	26.62	27.10
	12H	24.04	24.63	24.54	25.12	25.68	25.94	26.54	26.44	27.02	27.58
12H	4H	23.09	23.90	23.57	24.37	24.84	23.81	24.62	24.29	25.10	25.56
	6H	23.82	24.49	24.32	25.00	25.48	24.96	25.63	25.46	26.14	26.62
	8H	24.10	24.70	24.61	25.19	25.75	25.57	26.17	26.08	26.66	27.22