

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: P1584786

Luminaire Tested: 14CZSP-A-70VHE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584786
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-L940-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 7200 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

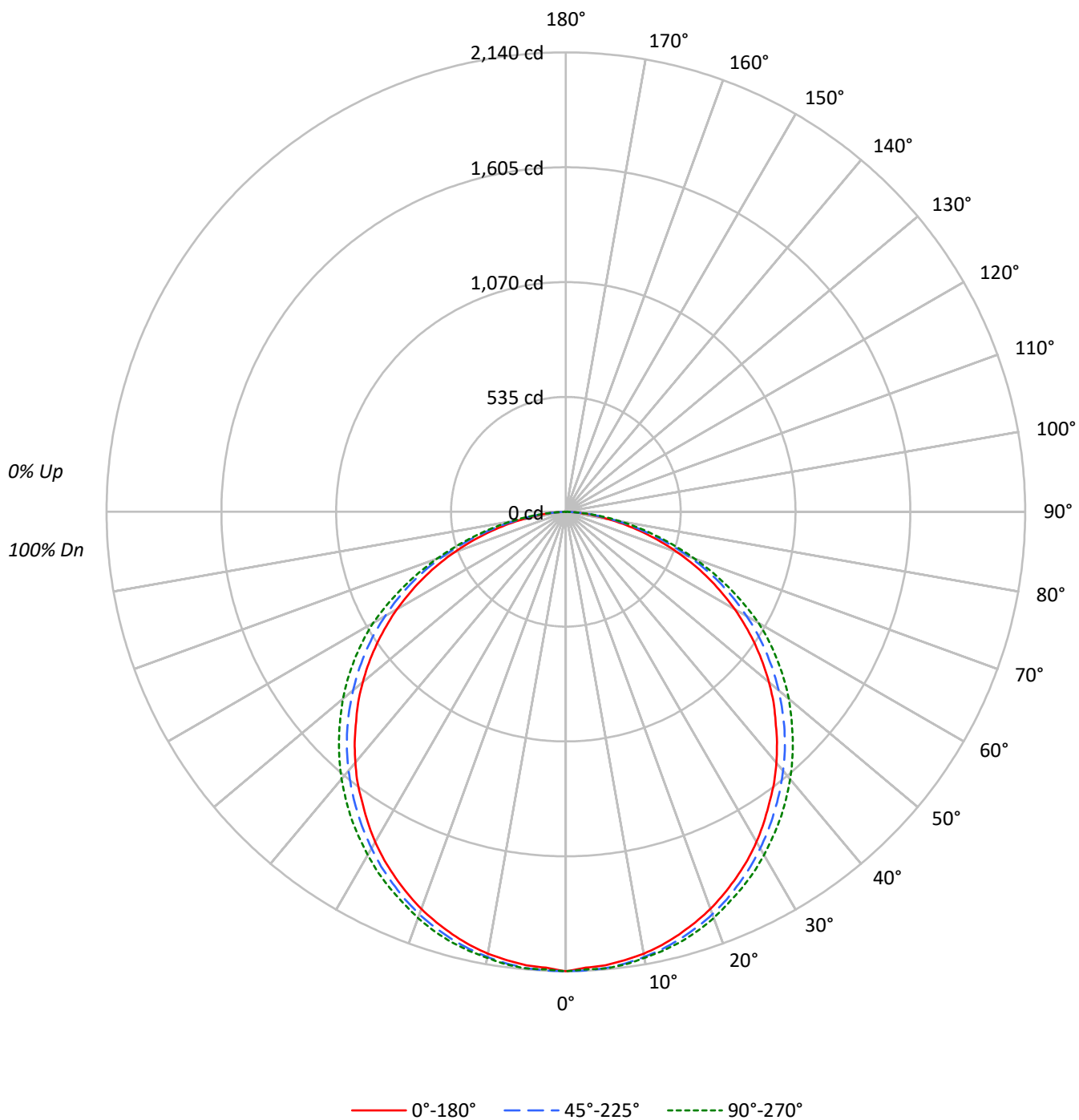
Lumens per Lamp: N/A
Luminaire Lumens: 6188.0 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	7212	7212	7212
5°	7172	7218	7225
10°	7152	7205	7221
15°	7111	7184	7235
20°	7061	7156	7221
25°	6989	7101	7199
30°	6911	7045	7183
35°	6800	6984	7171
40°	6711	6927	7151
45°	6584	6866	7123
50°	6475	6785	7109
55°	6319	6688	7063
60°	6126	6556	6991
65°	5853	6376	6703
70°	5456	6022	6290
75°	4873	5432	5739
80°	3993	4578	5020
85°	2675	3344	3731

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7123 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.7	3.3
10°-20°	581.2	9.4
20°-30°	880.0	14.2
30°-40°	1062.7	17.2
40°-50°	1110.6	17.9
50°-60°	1017.7	16.4
60°-70°	785.6	12.7
70°-80°	441.9	7.1
80°-90°	105.7	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°	1663.9	26.9
0°-40°	2726.6	44.1
0°-60°	4854.8	78.5
0°-90°	6188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6188.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2140	2140	2140	2140	2140	
5°	2120	2136	2134	2136	2136	201
15°	2038	2055	2059	2068	2074	575
25°	1880	1896	1910	1920	1936	866
35°	1653	1674	1698	1720	1743	1036
45°	1382	1409	1441	1470	1495	1068
55°	1076	1104	1138	1174	1202	961
65°	734	766	800	832	841	725
75°	374	409	417	434	441	397
85°	69	79	86	95	96	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2140.4	2140.4	2140.4	2140.4	2140.4
2.5°	2125.9	2142.3	2138.6	2144.1	2134.1
5°	2120.4	2135.9	2134.1	2135.9	2135.9
7.5°	2106.7	2123.1	2122.2	2125.0	2126.8
10°	2090.3	2105.8	2105.8	2108.6	2110.4
12.5°	2067.6	2084.0	2085.8	2090.3	2094.0
15°	2038.4	2054.8	2059.4	2067.6	2073.9
17.5°	2005.6	2022.9	2030.2	2038.4	2046.6
20°	1969.2	1984.7	1995.6	2002.0	2013.8
22.5°	1926.4	1943.7	1955.5	1961.9	1974.7
25°	1879.9	1896.3	1910.0	1920.0	1936.4
27.5°	1830.8	1847.1	1863.5	1875.4	1894.5
30°	1776.1	1793.4	1810.7	1828.9	1846.2
32.5°	1716.9	1736.9	1756.1	1776.1	1795.2
35°	1653.1	1674.1	1697.8	1720.5	1743.3
37.5°	1593.9	1613.1	1637.7	1662.3	1685.0
40°	1525.6	1546.6	1574.8	1602.1	1625.8
42.5°	1456.4	1479.2	1510.1	1536.6	1562.1
45°	1381.7	1409.0	1440.9	1470.1	1494.7
47.5°	1312.5	1336.2	1368.1	1399.9	1425.4
50°	1235.1	1261.5	1294.3	1328.0	1356.2
52.5°	1156.7	1184.1	1217.8	1251.5	1280.6
55°	1075.7	1103.9	1138.5	1174.1	1202.3
57.5°	992.8	1022.9	1058.4	1093.9	1122.1
60°	909.0	939.1	972.8	1011.9	1037.4
62.5°	821.6	855.3	887.1	923.6	939.1
65°	734.1	766.0	799.7	831.6	840.7
67.5°	644.9	677.7	707.7	728.7	740.5
70°	553.8	589.3	611.2	631.2	638.5
72.5°	463.6	499.1	511.9	531.0	538.3
75°	374.3	409.0	417.2	434.5	440.8
77.5°	287.8	319.7	322.4	342.5	347.9
80°	205.8	231.3	235.9	255.0	258.7
82.5°	132.1	150.3	156.7	173.1	178.5
85°	69.2	79.2	86.5	94.7	96.5
87.5°	22.8	28.2	23.7	24.6	22.8
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	18.58	20.23	18.94	20.54	20.86	19.12	20.77	19.48	21.08	21.40
	3H	20.35	21.85	20.73	22.17	22.53	20.97	22.47	21.35	22.79	23.15
	4H	20.98	22.39	21.38	22.73	23.11	21.64	23.05	22.04	23.40	23.77
	6H	21.39	22.69	21.80	23.06	23.45	22.12	23.42	22.53	23.79	24.18
	8H	21.49	22.74	21.92	23.13	23.52	22.27	23.51	22.69	23.90	24.30
	12H	21.54	22.74	21.97	23.12	23.55	22.35	23.54	22.78	23.92	24.35
4H	2H	19.30	20.71	19.70	21.06	21.43	19.72	21.13	20.12	21.48	21.85
	3H	21.30	22.48	21.71	22.87	23.27	21.80	22.98	22.20	23.37	23.77
	4H	22.05	23.12	22.48	23.53	23.97	22.59	23.66	23.02	24.07	24.51
	6H	22.58	23.51	23.03	23.95	24.41	23.19	24.13	23.65	24.57	25.02
	8H	22.72	23.59	23.18	24.04	24.50	23.39	24.26	23.84	24.70	25.17
	12H	22.80	23.58	23.28	24.06	24.53	23.51	24.29	23.99	24.77	25.24
8H	4H	22.39	23.26	22.85	23.71	24.17	22.87	23.74	23.33	24.18	24.65
	6H	23.03	23.76	23.52	24.24	24.72	23.58	24.31	24.07	24.79	25.27
	8H	23.23	23.88	23.74	24.39	24.87	23.84	24.49	24.35	24.99	25.48
	12H	23.36	23.93	23.87	24.42	24.98	24.02	24.59	24.52	25.08	25.64
12H	4H	22.43	23.21	22.91	23.69	24.16	22.89	23.68	23.37	24.15	24.62
	6H	23.09	23.74	23.59	24.24	24.73	23.62	24.27	24.12	24.77	25.26
	8H	23.34	23.91	23.84	24.40	24.96	23.92	24.50	24.43	24.99	25.55