

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: P1584466

Luminaire Tested: 14CZSP-70-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584466
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-70-L940-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 6700 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

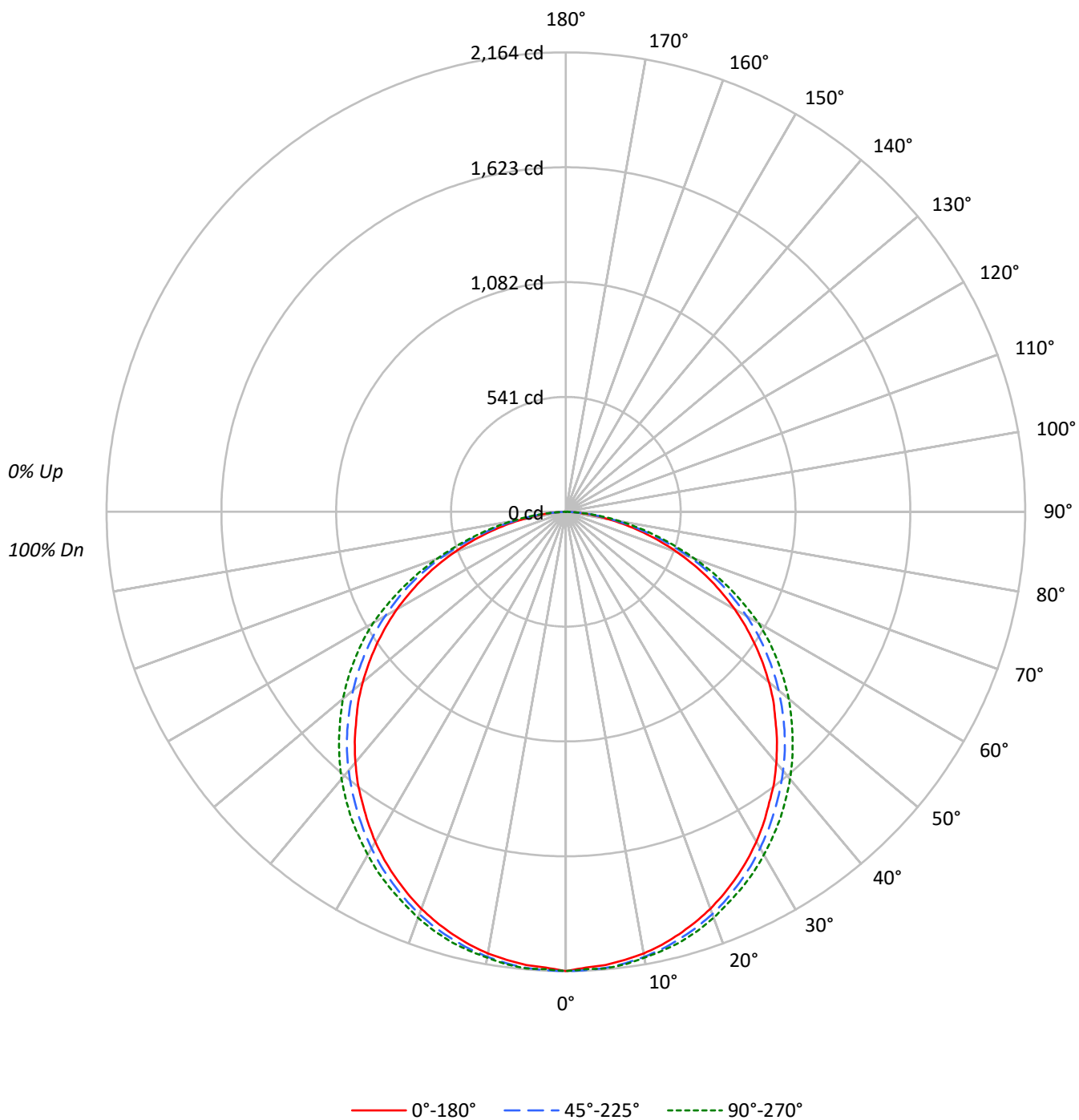
Lumens per Lamp: N/A
Luminaire Lumens: 6255.0 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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°	7290	7290	7290
5°	7250	7297	7303
10°	7230	7283	7299
15°	7188	7262	7313
20°	7138	7233	7299
25°	7065	7178	7277
30°	6985	7121	7261
35°	6874	7060	7249
40°	6783	7002	7229
45°	6656	6941	7199
50°	6544	6858	7186
55°	6388	6761	7139
60°	6192	6627	7067
65°	5917	6445	6776
70°	5515	6087	6358
75°	4926	5490	5801
80°	4038	4628	5074
85°	2706	3383	3773

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7199 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.9	3.3
10°-20°	587.5	9.4
20°-30°	889.5	14.2
30°-40°	1074.2	17.2
40°-50°	1122.6	17.9
50°-60°	1028.7	16.4
60°-70°	794.1	12.7
70°-80°	446.7	7.1
80°-90°	106.9	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°	1681.9	26.9
0°-40°	2756.1	44.1
0°-60°	4907.4	78.5
0°-90°	6255.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6255.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2164	2164	2164	2164	2164	
5°	2143	2159	2157	2159	2159	204
15°	2060	2077	2082	2090	2096	581
25°	1900	1917	1931	1941	1957	876
35°	1671	1692	1716	1739	1762	1047
45°	1397	1424	1456	1486	1511	1079
55°	1087	1116	1151	1187	1215	971
65°	742	774	808	841	850	733
75°	378	413	422	439	446	401
85°	70	80	88	96	98	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2163.6	2163.6	2163.6	2163.6	2163.6
2.5°	2148.9	2165.5	2161.8	2167.3	2157.2
5°	2143.4	2159.0	2157.2	2159.0	2159.0
7.5°	2129.5	2146.1	2145.2	2148.0	2149.8
10°	2113.0	2128.6	2128.6	2131.4	2133.2
12.5°	2090.0	2106.5	2108.4	2113.0	2116.7
15°	2060.5	2077.1	2081.7	2090.0	2096.4
17.5°	2027.3	2044.8	2052.2	2060.5	2068.8
20°	1990.5	2006.2	2017.2	2023.7	2035.6
22.5°	1947.2	1964.7	1976.7	1983.2	1996.0
25°	1900.3	1916.9	1930.7	1940.8	1957.4
27.5°	1850.6	1867.1	1883.7	1895.7	1915.0
30°	1795.3	1812.8	1830.3	1848.7	1866.2
32.5°	1735.5	1755.7	1775.1	1795.3	1814.7
35°	1671.0	1692.2	1716.2	1739.2	1762.2
37.5°	1611.2	1630.5	1655.4	1680.3	1703.3
40°	1542.1	1563.3	1591.9	1619.5	1643.4
42.5°	1472.2	1495.2	1526.5	1553.2	1579.0
45°	1396.7	1424.3	1456.5	1486.0	1510.8
47.5°	1326.7	1350.6	1382.9	1415.1	1440.9
50°	1248.4	1275.1	1308.3	1342.4	1370.9
52.5°	1169.3	1196.9	1231.0	1265.0	1294.5
55°	1087.3	1115.9	1150.9	1186.8	1215.3
57.5°	1003.5	1033.9	1069.8	1105.7	1134.3
60°	918.8	949.2	983.3	1022.9	1048.7
62.5°	830.5	864.5	896.7	933.6	949.2
65°	742.1	774.3	808.4	840.6	849.8
67.5°	651.8	685.0	715.4	736.5	748.5
70°	559.8	595.7	617.8	638.0	645.4
72.5°	468.6	504.5	517.4	536.8	544.1
75°	378.4	413.4	421.7	439.2	445.6
77.5°	290.9	323.2	325.9	346.2	351.7
80°	208.1	233.9	238.5	257.8	261.5
82.5°	133.5	151.9	158.4	174.9	180.5
85°	70.0	80.1	87.5	95.8	97.6
87.5°	23.0	28.5	23.9	24.9	23.0
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	18.61	20.26	18.98	20.58	20.89	19.15	20.80	19.52	21.12	21.43
	3H	20.39	21.88	20.77	22.21	22.57	21.01	22.50	21.39	22.83	23.19
	4H	21.02	22.42	21.41	22.77	23.15	21.68	23.09	22.08	23.43	23.81
	6H	21.42	22.73	21.84	23.09	23.48	22.16	23.46	22.57	23.83	24.22
	8H	21.53	22.77	21.95	23.16	23.56	22.30	23.55	22.73	23.94	24.34
	12H	21.58	22.77	22.01	23.15	23.58	22.39	23.58	22.81	23.96	24.39
4H	2H	19.34	20.75	19.74	21.09	21.47	19.76	21.17	20.16	21.52	21.89
	3H	21.33	22.51	21.74	22.91	23.31	21.83	23.01	22.24	23.41	23.81
	4H	22.09	23.16	22.52	23.57	24.01	22.63	23.70	23.06	24.11	24.55
	6H	22.62	23.55	23.07	23.99	24.45	23.23	24.17	23.68	24.61	25.06
	8H	22.76	23.63	23.22	24.07	24.54	23.42	24.30	23.88	24.74	25.20
	12H	22.84	23.62	23.32	24.10	24.57	23.54	24.33	24.02	24.80	25.27
8H	4H	22.43	23.30	22.89	23.74	24.21	22.90	23.78	23.36	24.22	24.69
	6H	23.07	23.79	23.56	24.28	24.76	23.62	24.34	24.11	24.83	25.31
	8H	23.27	23.92	23.78	24.42	24.91	23.87	24.53	24.38	25.03	25.52
	12H	23.40	23.97	23.90	24.46	25.02	24.06	24.63	24.56	25.12	25.68
12H	4H	22.46	23.25	22.94	23.73	24.19	22.93	23.71	23.41	24.19	24.66
	6H	23.12	23.78	23.63	24.28	24.77	23.65	24.31	24.16	24.81	25.30
	8H	23.37	23.95	23.88	24.44	25.00	23.96	24.54	24.47	25.03	25.59