

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: P1584757

Luminaire Tested: 14CZSP-A-70-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-724-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-70-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 6700 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

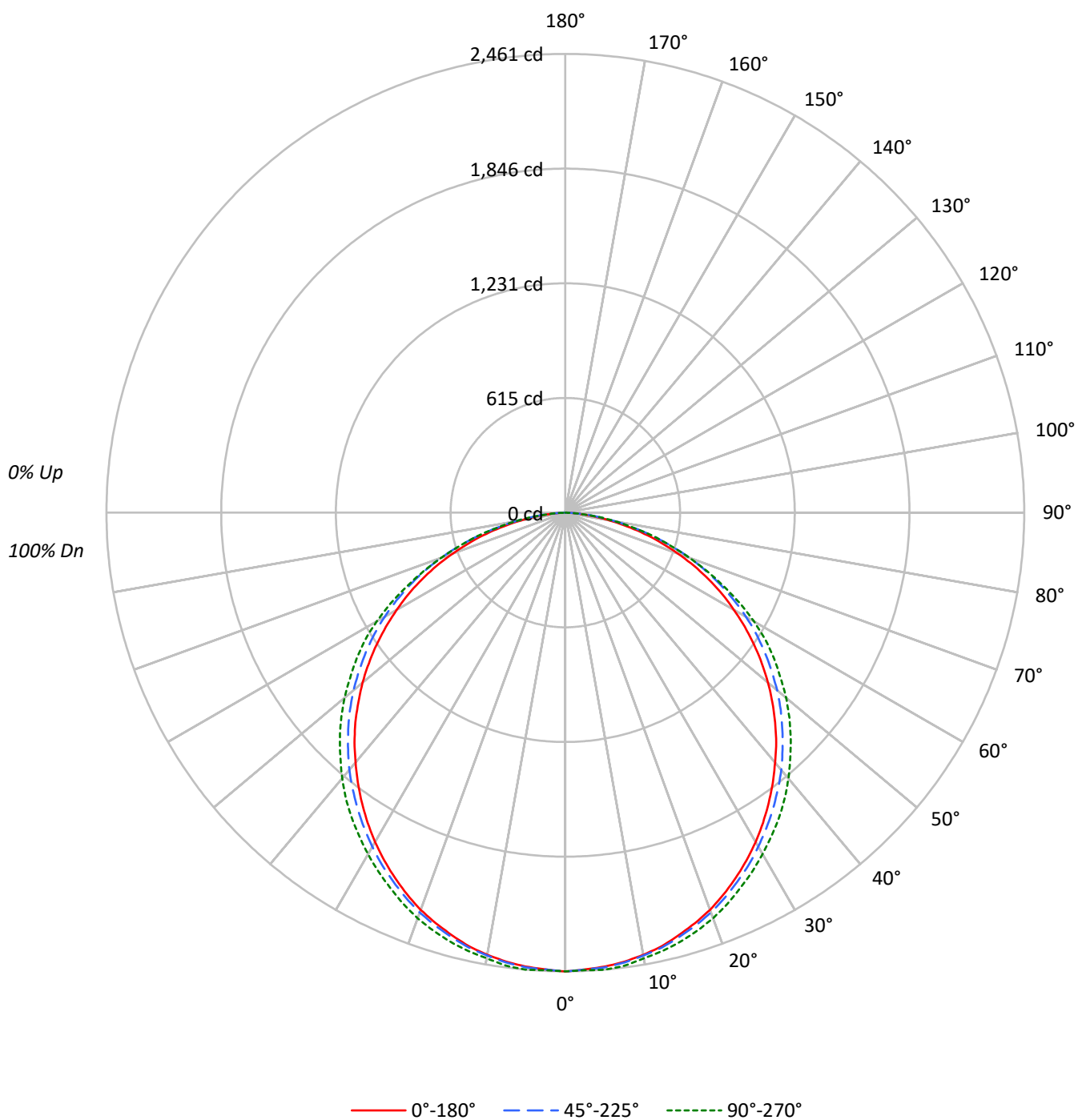
Lumens per Lamp: N/A
Luminaire Lumens: 7102.0 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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	53		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	29		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°	8294	8294	8294
5°	8268	8283	8325
10°	8242	8256	8306
15°	8189	8226	8314
20°	8131	8184	8305
25°	8039	8118	8259
30°	7938	8053	8233
35°	7821	7986	8219
40°	7696	7928	8187
45°	7585	7846	8147
50°	7439	7770	8101
55°	7261	7669	8028
60°	7038	7549	7875
65°	6765	7336	7488
70°	6348	6969	6969
75°	5701	6332	6360
80°	4698	5352	5352
85°	3255	3909	3418

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8147 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.1	3.3
10°-20°	667.7	9.4
20°-30°	1010.6	14.2
30°-40°	1220.0	17.2
40°-50°	1274.6	17.9
50°-60°	1167.6	16.4
60°-70°	900.2	12.7
70°-80°	507.9	7.2
80°-90°	120.2	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°	1911.4	26.9
0°-40°	3131.4	44.1
0°-60°	5573.7	78.5
0°-90°	7102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7102.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2461	2461	2461	2461	2461	
5°	2444	2461	2449	2453	2461	232
15°	2348	2362	2358	2377	2383	663
25°	2162	2181	2183	2213	2221	996
35°	1901	1926	1941	1983	1998	1189
45°	1592	1619	1646	1695	1710	1227
55°	1236	1268	1305	1354	1366	1104
65°	848	876	920	952	939	839
75°	438	472	486	499	488	464
85°	84	95	101	107	88	106
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2461.3	2461.3	2461.3	2461.3	2461.3
2.5°	2452.9	2469.7	2452.9	2461.3	2457.1
5°	2444.5	2461.3	2448.7	2452.9	2461.3
7.5°	2429.7	2446.6	2434.0	2440.3	2450.8
10°	2408.7	2425.5	2412.9	2423.4	2427.6
12.5°	2383.4	2398.2	2389.7	2402.4	2408.7
15°	2347.6	2362.4	2358.2	2377.1	2383.4
17.5°	2309.7	2326.6	2322.4	2345.5	2351.8
20°	2267.6	2282.4	2282.4	2303.4	2316.0
22.5°	2217.1	2233.9	2236.0	2259.2	2271.8
25°	2162.3	2181.3	2183.4	2212.9	2221.3
27.5°	2103.4	2122.3	2130.8	2162.3	2170.8
30°	2040.2	2059.2	2069.7	2105.5	2116.0
32.5°	1972.8	1996.0	2006.5	2046.5	2057.1
35°	1901.3	1926.5	1941.3	1983.4	1998.1
37.5°	1827.6	1852.8	1871.8	1916.0	1932.8
40°	1749.7	1777.0	1802.3	1846.5	1861.3
42.5°	1673.9	1701.2	1724.4	1770.7	1785.5
45°	1591.8	1619.1	1646.5	1694.9	1709.7
47.5°	1505.4	1534.9	1566.5	1610.7	1629.7
50°	1419.1	1448.6	1482.3	1528.6	1545.4
52.5°	1328.6	1360.2	1393.8	1442.3	1454.9
55°	1235.9	1267.5	1305.4	1353.8	1366.5
57.5°	1141.2	1174.9	1214.9	1261.2	1273.8
60°	1044.3	1078.0	1120.1	1164.3	1168.6
62.5°	949.6	979.1	1021.2	1063.3	1057.0
65°	848.5	875.9	920.1	951.7	939.1
67.5°	747.5	776.9	816.9	840.1	823.2
70°	644.3	675.9	707.4	724.3	707.4
72.5°	541.1	574.8	598.0	608.5	593.7
75°	437.9	471.6	486.4	499.0	488.5
77.5°	339.0	370.6	376.9	391.6	376.9
80°	242.1	271.6	275.8	290.6	275.8
82.5°	155.8	174.8	183.2	195.8	181.1
85°	84.2	94.7	101.1	107.4	88.4
87.5°	29.5	33.7	29.5	25.3	10.5
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	19.06	20.71	19.43	21.03	21.34	19.61	21.26	19.97	21.57	21.88
	3H	20.85	22.34	21.23	22.67	23.03	21.41	22.91	21.79	23.23	23.59
	4H	21.49	22.90	21.89	23.24	23.62	22.06	23.47	22.46	23.81	24.19
	6H	21.91	23.22	22.32	23.58	23.97	22.50	23.80	22.91	24.17	24.56
	8H	22.02	23.27	22.45	23.66	24.06	22.62	23.87	23.04	24.26	24.65
	12H	22.08	23.27	22.51	23.65	24.08	22.68	23.87	23.11	24.25	24.68
4H	2H	19.79	21.20	20.19	21.54	21.92	20.21	21.62	20.61	21.97	22.34
	3H	21.80	22.98	22.20	23.37	23.77	22.25	23.43	22.66	23.83	24.23
	4H	22.56	23.63	22.99	24.04	24.48	23.03	24.10	23.46	24.51	24.95
	6H	23.11	24.04	23.56	24.48	24.94	23.60	24.53	24.05	24.97	25.43
	8H	23.25	24.13	23.71	24.57	25.03	23.76	24.64	24.22	25.08	25.54
	12H	23.34	24.12	23.82	24.60	25.07	23.86	24.64	24.34	25.12	25.58
8H	4H	22.91	23.78	23.37	24.22	24.69	23.32	24.19	23.78	24.63	25.10
	6H	23.57	24.29	24.06	24.78	25.25	24.00	24.73	24.49	25.21	25.69
	8H	23.77	24.42	24.28	24.93	25.41	24.23	24.88	24.74	25.39	25.88
	12H	23.91	24.48	24.41	24.97	25.53	24.38	24.96	24.89	25.45	26.01
12H	4H	22.94	23.73	23.42	24.20	24.67	23.34	24.13	23.82	24.60	25.07
	6H	23.62	24.27	24.13	24.78	25.26	24.04	24.69	24.55	25.20	25.68
	8H	23.88	24.45	24.39	24.94	25.50	24.33	24.90	24.83	25.39	25.95