

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: P1584477

Luminaire Tested: 14CZSP-70VHE-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584477
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-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 7200 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

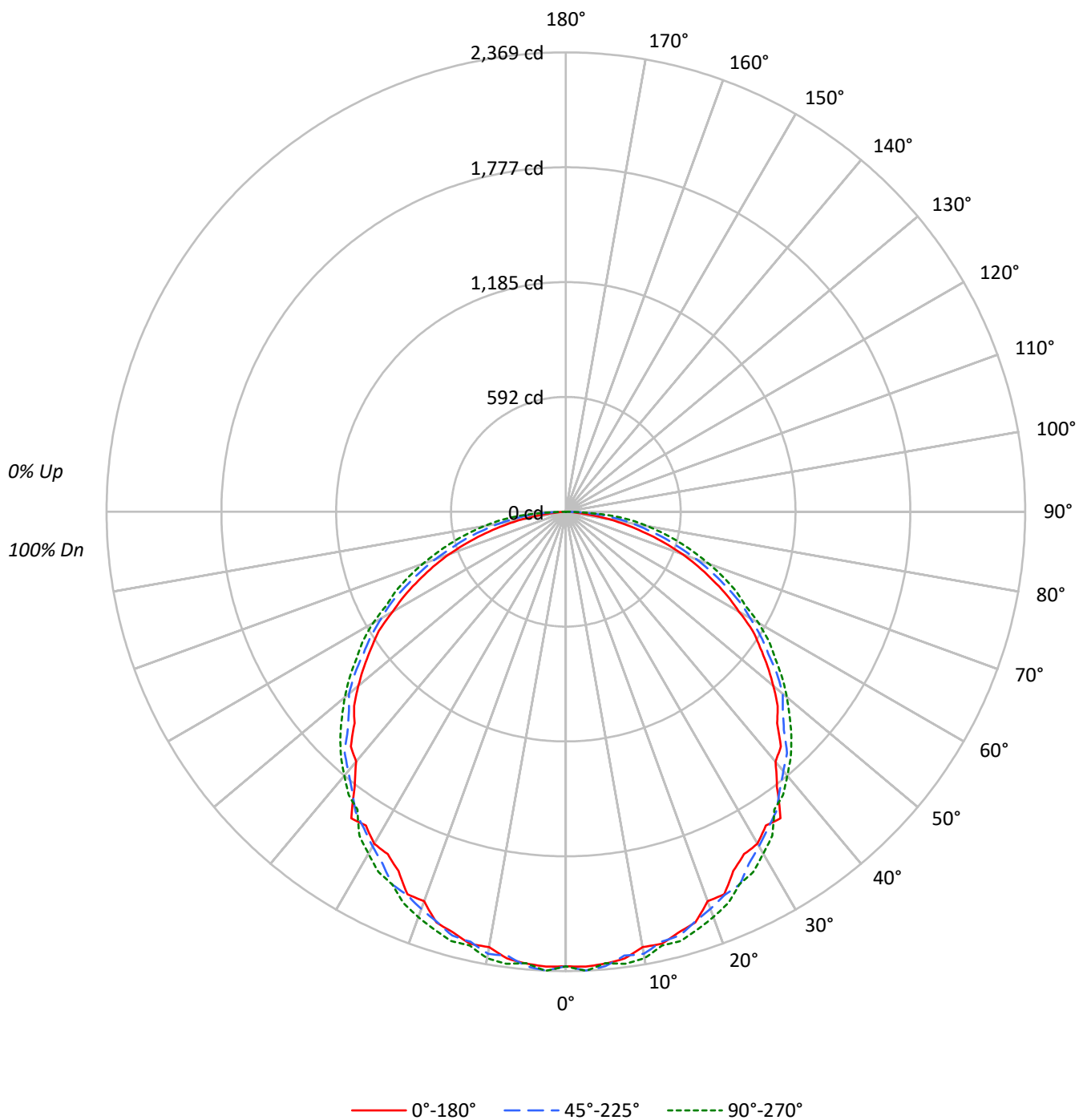
Lumens per Lamp: N/A
Luminaire Lumens: 7026.0 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7898	7898	7898
5°	7912	7957	7904
10°	7801	7921	8000
15°	7836	7895	7992
20°	7665	7816	7976
25°	7597	7884	7880
30°	7692	7753	7922
35°	7938	7774	7710
40°	7399	7676	7814
45°	7343	7579	7838
50°	7324	7654	7799
55°	7194	7484	7740
60°	6950	7398	7739
65°	6682	7270	7722
70°	6317	7067	7734
75°	5581	6901	7877
80°	4593	6726	8342
85°	2567	7098	9290

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 9290 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.2	3.2
10°-20°	637.7	9.1
20°-30°	969.1	13.8
30°-40°	1178.5	16.8
40°-50°	1237.1	17.6
50°-60°	1144.1	16.3
60°-70°	901.3	12.8
70°-80°	554.0	7.9
80°-90°	182.0	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°	1829.0	26.0
0°-40°	3007.5	42.8
0°-60°	5388.7	76.7
0°-90°	7026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7026.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2344	2344	2344	2344	2344	
5°	2339	2298	2352	2332	2337	222
15°	2246	2240	2263	2293	2291	633
25°	2043	2081	2121	2114	2119	949
35°	1930	1861	1890	1919	1874	1169
45°	1541	1574	1590	1636	1645	1198
55°	1224	1263	1274	1307	1318	1095
65°	838	871	912	952	968	830
75°	429	476	530	584	605	456
85°	66	116	184	225	240	93
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2344.0	2344.0	2344.0	2344.0	2344.0
2.5°	2347.6	2351.2	2368.1	2330.7	2369.4
5°	2339.2	2298.1	2352.4	2331.9	2336.7
7.5°	2323.5	2328.3	2309.0	2321.0	2351.2
10°	2280.0	2310.2	2315.0	2319.8	2338.0
12.5°	2282.4	2263.1	2271.5	2306.6	2290.9
15°	2246.2	2240.1	2263.1	2293.3	2290.9
17.5°	2220.8	2207.5	2216.0	2230.5	2258.3
20°	2137.5	2172.5	2179.8	2224.4	2224.4
22.5°	2135.1	2133.9	2138.7	2161.6	2185.8
25°	2043.3	2080.7	2120.6	2114.5	2119.4
27.5°	1990.2	2032.4	2045.7	2086.8	2094.0
30°	1976.9	1984.1	1992.6	2037.3	2036.0
32.5°	1918.9	1931.0	1937.0	1962.4	1981.7
35°	1929.8	1860.9	1889.9	1918.9	1874.2
37.5°	1788.5	1799.4	1811.4	1833.2	1840.4
40°	1682.2	1710.0	1745.0	1770.4	1776.4
42.5°	1641.2	1682.2	1688.3	1711.2	1717.2
45°	1540.9	1573.5	1590.4	1636.3	1644.8
47.5°	1481.8	1486.6	1516.8	1560.2	1566.3
50°	1397.2	1429.8	1460.0	1479.3	1487.8
52.5°	1311.5	1347.7	1371.9	1390.0	1406.9
55°	1224.5	1263.2	1274.0	1306.6	1317.5
57.5°	1143.6	1155.7	1190.7	1222.1	1241.4
60°	1031.3	1072.4	1097.7	1155.7	1148.4
62.5°	940.7	968.5	1015.6	1044.6	1041.0
65°	838.1	870.7	911.8	951.6	968.5
67.5°	740.3	783.7	813.9	865.9	877.9
70°	641.2	661.8	717.3	768.0	785.0
72.5°	535.0	567.6	615.9	671.4	692.0
75°	428.7	475.8	530.1	584.5	605.0
77.5°	328.5	369.5	431.1	493.9	514.4
80°	236.7	274.1	346.6	404.6	429.9
82.5°	138.9	189.6	260.8	324.9	344.2
85°	66.4	115.9	183.6	224.6	240.3
87.5°	18.1	51.9	80.9	105.1	108.7
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	18.99	20.66	19.35	20.97	21.28	19.42	21.09	19.78	21.40	21.71
	3H	20.79	22.31	21.17	22.63	22.99	21.50	23.02	21.88	23.34	23.70
	4H	21.43	22.86	21.83	23.21	23.58	22.38	23.81	22.78	24.16	24.53
	6H	21.85	23.17	22.26	23.54	23.93	23.17	24.50	23.58	24.86	25.25
	8H	21.94	23.21	22.37	23.60	24.00	23.51	24.78	23.93	25.16	25.56
	12H	21.98	23.20	22.41	23.58	24.01	23.79	25.01	24.22	25.39	25.82
4H	2H	19.72	21.15	20.11	21.49	21.87	20.05	21.48	20.45	21.83	22.20
	3H	21.74	22.95	22.15	23.35	23.74	22.37	23.57	22.77	23.97	24.37
	4H	22.52	23.61	22.95	24.03	24.46	23.41	24.50	23.84	24.91	25.35
	6H	23.06	24.02	23.51	24.46	24.91	24.36	25.32	24.81	25.76	26.21
	8H	23.20	24.10	23.66	24.54	25.00	24.78	25.67	25.23	26.12	26.58
	12H	23.27	24.08	23.75	24.56	25.03	25.14	25.95	25.62	26.43	26.89
8H	4H	22.95	23.85	23.41	24.29	24.76	23.73	24.63	24.18	25.07	25.53
	6H	23.63	24.38	24.12	24.87	25.34	24.84	25.59	25.33	26.08	26.55
	8H	23.85	24.52	24.35	25.03	25.51	25.38	26.06	25.89	26.56	27.05
	12H	23.98	24.58	24.49	25.07	25.63	25.88	26.48	26.39	26.97	27.53
12H	4H	23.04	23.85	23.51	24.32	24.79	23.76	24.57	24.24	25.04	25.51
	6H	23.76	24.44	24.27	24.94	25.43	24.90	25.58	25.41	26.08	26.57
	8H	24.05	24.65	24.55	25.14	25.70	25.52	26.12	26.02	26.61	27.16