

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: P1584475

Luminaire Tested: 14CZSP-70VHE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584475
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-L835
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 7200 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

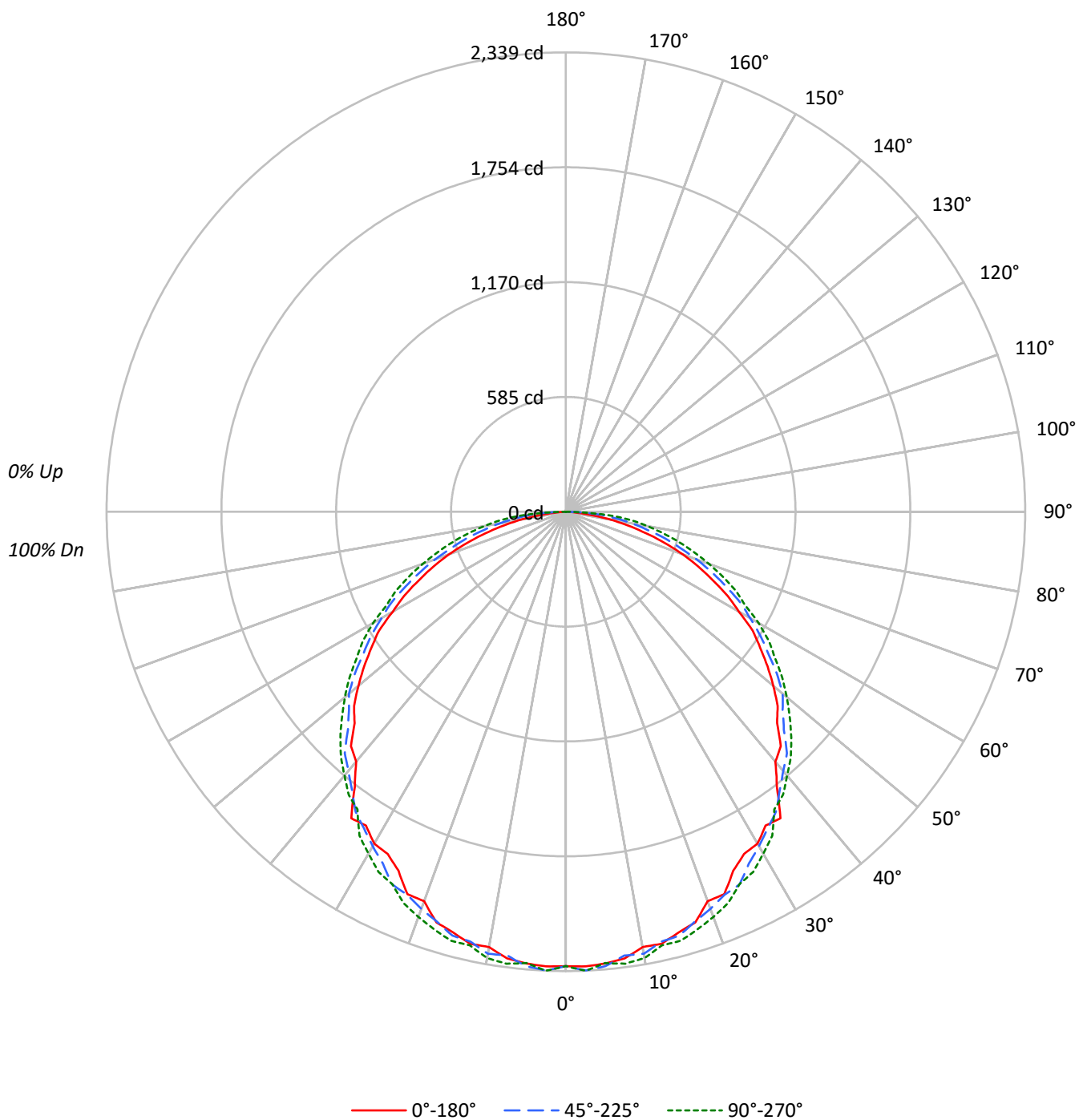
Lumens per Lamp: N/A
Luminaire Lumens: 6935.0 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	7796	7796	7796
5°	7810	7854	7802
10°	7700	7818	7896
15°	7734	7792	7888
20°	7565	7715	7873
25°	7498	7782	7778
30°	7592	7653	7819
35°	7835	7673	7610
40°	7304	7576	7713
45°	7248	7481	7736
50°	7229	7554	7698
55°	7101	7387	7640
60°	6860	7302	7640
65°	6595	7175	7622
70°	6235	6975	7633
75°	5510	6813	7775
80°	4533	6638	8233
85°	2536	7005	9171

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 9171 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.3	3.2
10°-20°	629.4	9.1
20°-30°	956.6	13.8
30°-40°	1163.2	16.8
40°-50°	1221.0	17.6
50°-60°	1129.3	16.3
60°-70°	889.7	12.8
70°-80°	546.8	7.9
80°-90°	179.6	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°	1805.3	26.0
0°-40°	2968.5	42.8
0°-60°	5318.9	76.7
0°-90°	6935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2314	2314	2314	2314	2314	
5°	2309	2268	2322	2302	2306	219
15°	2217	2211	2234	2264	2261	625
25°	2017	2054	2093	2087	2092	937
35°	1905	1837	1865	1894	1850	1154
45°	1521	1553	1570	1615	1624	1182
55°	1209	1247	1258	1290	1300	1080
65°	827	859	900	939	956	819
75°	423	470	523	577	597	450
85°	66	114	181	222	237	92
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2313.6	2313.6	2313.6	2313.6	2313.6
2.5°	2317.2	2320.8	2337.5	2300.5	2338.7
5°	2308.9	2268.3	2322.0	2301.7	2306.5
7.5°	2293.4	2298.1	2279.1	2291.0	2320.8
10°	2250.5	2280.3	2285.0	2289.8	2307.7
12.5°	2252.8	2233.8	2242.1	2276.7	2261.2
15°	2217.1	2211.1	2233.8	2263.6	2261.2
17.5°	2192.1	2178.9	2187.3	2201.6	2229.0
20°	2109.8	2144.4	2151.5	2195.6	2195.6
22.5°	2107.4	2106.2	2111.0	2133.6	2157.5
25°	2016.8	2053.8	2093.1	2087.2	2091.9
27.5°	1964.4	2006.1	2019.2	2059.7	2066.9
30°	1951.3	1958.4	1966.8	2010.9	2009.7
32.5°	1894.1	1906.0	1911.9	1937.0	1956.0
35°	1904.8	1836.8	1865.4	1894.1	1850.0
37.5°	1765.3	1776.1	1788.0	1809.4	1816.6
40°	1660.4	1687.8	1722.4	1747.4	1753.4
42.5°	1619.9	1660.4	1666.4	1689.0	1695.0
45°	1521.0	1553.2	1569.8	1615.1	1623.5
47.5°	1462.6	1467.3	1497.1	1540.0	1546.0
50°	1379.1	1411.3	1441.1	1460.2	1468.5
52.5°	1294.5	1330.3	1354.1	1372.0	1388.7
55°	1208.7	1246.8	1257.5	1289.7	1300.5
57.5°	1128.8	1140.7	1175.3	1206.3	1225.4
60°	1018.0	1058.5	1083.5	1140.7	1133.6
62.5°	928.6	956.0	1002.5	1031.1	1027.5
65°	827.2	859.4	899.9	939.3	956.0
67.5°	730.7	773.6	803.4	854.7	866.6
70°	632.9	653.2	708.0	758.1	774.8
72.5°	528.0	560.2	607.9	662.7	683.0
75°	423.2	469.6	523.3	576.9	597.2
77.5°	324.2	364.7	425.5	487.5	507.8
80°	233.6	270.6	342.1	399.3	424.3
82.5°	137.1	187.1	257.5	320.6	339.7
85°	65.6	114.4	181.2	221.7	237.2
87.5°	17.9	51.3	79.9	103.7	107.3
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	18.94	20.61	19.30	20.92	21.24	19.37	21.04	19.74	21.36	21.67
	3H	20.75	22.26	21.12	22.59	22.95	21.46	22.97	21.83	23.30	23.66
	4H	21.39	22.82	21.78	23.16	23.54	22.34	23.77	22.73	24.11	24.49
	6H	21.80	23.13	22.21	23.49	23.88	23.12	24.45	23.53	24.81	25.20
	8H	21.90	23.17	22.32	23.56	23.95	23.46	24.73	23.88	25.12	25.52
	12H	21.94	23.16	22.37	23.54	23.97	23.75	24.97	24.18	25.35	25.78
4H	2H	19.67	21.10	20.07	21.45	21.82	20.01	21.44	20.40	21.78	22.16
	3H	21.70	22.90	22.11	23.30	23.70	22.32	23.53	22.73	23.92	24.32
	4H	22.48	23.57	22.91	23.98	24.42	23.36	24.45	23.79	24.87	25.30
	6H	23.01	23.97	23.47	24.41	24.87	24.31	25.27	24.76	25.71	26.16
	8H	23.15	24.05	23.61	24.49	24.96	24.73	25.63	25.19	26.07	26.53
	12H	23.23	24.04	23.71	24.51	24.98	25.10	25.91	25.58	26.38	26.85
8H	4H	22.91	23.81	23.37	24.25	24.71	23.68	24.58	24.14	25.02	25.49
	6H	23.59	24.34	24.08	24.82	25.30	24.80	25.55	25.29	26.03	26.51
	8H	23.80	24.48	24.31	24.98	25.46	25.34	26.01	25.84	26.52	27.00
	12H	23.94	24.54	24.44	25.02	25.58	25.84	26.44	26.34	26.93	27.48
12H	4H	22.99	23.80	23.47	24.28	24.74	23.71	24.52	24.19	25.00	25.47
	6H	23.72	24.39	24.22	24.90	25.38	24.86	25.53	25.36	26.04	26.52
	8H	24.00	24.60	24.51	25.09	25.65	25.47	26.07	25.98	26.56	27.12