

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: P1586776

Luminaire Tested: 22CZSP-A-60HE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-A-60HE-L840-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 6700 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

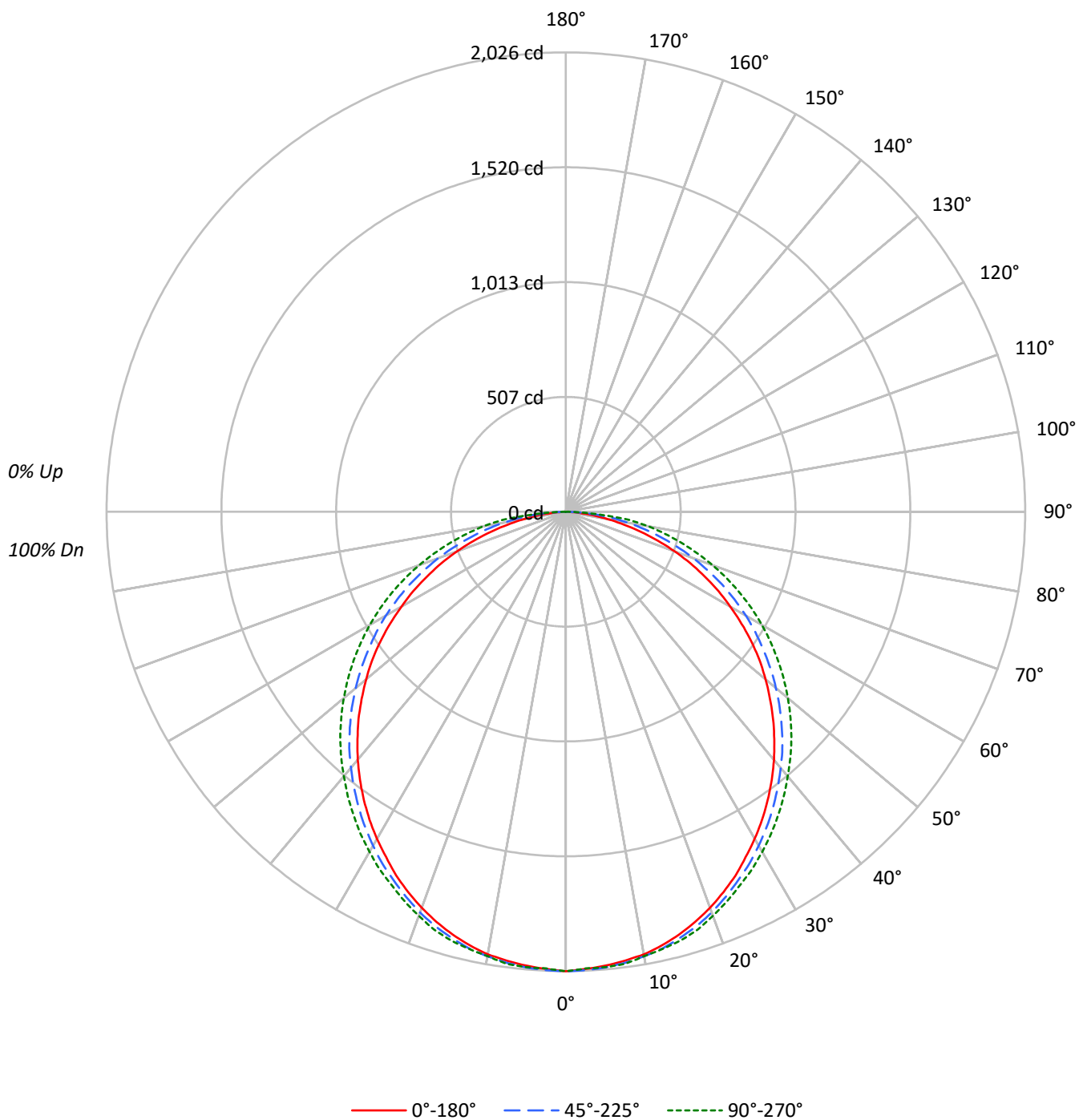
Lumens per Lamp: N/A
Luminaire Lumens: 5916.0 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 41.5
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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6345	6345	6345
5°	6316	6341	6337
10°	6303	6332	6327
15°	6258	6308	6346
20°	6194	6268	6320
25°	6118	6203	6279
30°	6022	6149	6261
35°	5935	6089	6243
40°	5837	6028	6224
45°	5725	5967	6232
50°	5603	5894	6229
55°	5457	5811	6237
60°	5252	5748	6252
65°	5011	5636	6271
70°	4671	5479	6299
75°	4162	5262	6360
80°	3441	5009	6672
85°	2238	4523	5831

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6883 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.6	3.2
10°-20°	548.8	9.3
20°-30°	827.6	14.0
30°-40°	996.8	16.8
40°-50°	1041.0	17.6
50°-60°	956.1	16.2
60°-70°	753.0	12.7
70°-80°	462.0	7.8
80°-90°	139.0	2.4
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°	1568.0	26.5
0°-40°	2564.8	43.4
0°-60°	4562.0	77.1
0°-90°	5916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5916.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2026	2026	2026	2026	2026	
5°	2010	2012	2017	2024	2016	191
15°	1930	1934	1946	1958	1958	544
25°	1771	1774	1795	1817	1817	815
35°	1553	1560	1593	1625	1633	971
45°	1293	1307	1348	1394	1407	997
55°	1000	1018	1064	1124	1142	892
65°	676	700	761	824	846	669
75°	344	371	435	504	526	365
85°	62	86	126	160	162	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2026.4	2026.4	2026.4	2026.4	2026.4
2.5°	2018.6	2022.5	2023.8	2025.1	2016.0
5°	2009.5	2012.1	2017.3	2023.8	2016.0
7.5°	1996.5	1999.1	2005.6	2014.7	2010.8
10°	1982.3	1983.5	1991.3	1997.8	1990.0
12.5°	1958.9	1962.8	1971.9	1977.1	1974.5
15°	1930.3	1934.2	1945.9	1957.6	1957.6
17.5°	1896.6	1901.8	1916.0	1931.6	1932.9
20°	1858.9	1862.8	1881.0	1896.6	1896.6
22.5°	1816.1	1821.3	1839.5	1856.3	1858.9
25°	1770.7	1774.5	1795.3	1817.4	1817.4
27.5°	1717.4	1725.2	1751.2	1773.3	1778.4
30°	1665.5	1672.0	1700.6	1727.8	1731.7
32.5°	1611.0	1618.8	1648.6	1678.5	1685.0
35°	1552.6	1560.4	1592.8	1625.3	1633.1
37.5°	1491.6	1500.6	1534.4	1572.0	1579.8
40°	1427.9	1438.3	1474.7	1514.9	1522.7
42.5°	1360.4	1374.7	1413.7	1455.2	1466.9
45°	1292.9	1307.2	1347.5	1394.2	1407.2
47.5°	1221.5	1238.4	1280.0	1329.3	1343.6
50°	1150.1	1167.0	1209.9	1263.1	1278.7
52.5°	1077.5	1094.3	1138.5	1194.3	1211.2
55°	999.6	1017.7	1064.5	1124.2	1142.4
57.5°	919.1	942.4	991.8	1052.8	1071.0
60°	838.6	862.0	917.8	977.5	998.3
62.5°	759.4	781.5	838.6	902.2	924.3
65°	676.3	699.7	760.7	824.3	846.4
67.5°	594.5	617.9	678.9	745.1	768.5
70°	510.2	536.1	598.4	664.6	688.0
72.5°	425.8	453.0	516.7	584.2	606.2
75°	344.0	371.3	434.9	503.7	525.7
77.5°	263.5	293.4	355.7	425.8	446.6
80°	190.8	219.4	277.8	346.6	370.0
82.5°	122.0	146.7	205.1	270.0	286.9
85°	62.3	85.7	125.9	159.7	162.3
87.5°	19.5	27.3	41.5	62.3	63.6
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	17.90	19.56	18.26	19.87	20.19	18.73	20.39	19.09	20.70	21.02
	3H	19.65	21.16	20.03	21.49	21.85	20.84	22.35	21.22	22.68	23.04
	4H	20.27	21.69	20.67	22.04	22.42	21.73	23.16	22.13	23.50	23.88
	6H	20.68	22.00	21.09	22.37	22.76	22.51	23.84	22.92	24.20	24.59
	8H	20.79	22.05	21.21	22.44	22.84	22.83	24.10	23.26	24.49	24.88
	12H	20.84	22.05	21.27	22.43	22.86	23.05	24.26	23.47	24.64	25.07
4H	2H	18.67	20.09	19.07	20.44	20.81	19.32	20.74	19.71	21.09	21.46
	3H	20.65	21.84	21.06	22.24	22.64	21.67	22.87	22.08	23.27	23.66
	4H	21.38	22.47	21.81	22.88	23.32	22.72	23.81	23.15	24.22	24.66
	6H	21.91	22.86	22.36	23.30	23.76	23.68	24.63	24.13	25.07	25.52
	8H	22.06	22.95	22.52	23.39	23.86	24.07	24.96	24.53	25.41	25.87
	12H	22.14	22.95	22.62	23.42	23.89	24.35	25.15	24.83	25.63	26.10
8H	4H	21.84	22.73	22.30	23.18	23.64	23.01	23.90	23.47	24.35	24.81
	6H	22.50	23.25	23.00	23.73	24.21	24.12	24.87	24.62	25.35	25.83
	8H	22.71	23.38	23.22	23.89	24.37	24.64	25.30	25.14	25.81	26.29
	12H	22.85	23.45	23.36	23.93	24.49	25.02	25.61	25.53	26.10	26.66
12H	4H	21.93	22.74	22.41	23.21	23.68	23.04	23.84	23.52	24.31	24.78
	6H	22.64	23.31	23.14	23.81	24.29	24.17	24.84	24.68	25.35	25.83
	8H	22.91	23.51	23.42	24.00	24.55	24.75	25.34	25.25	25.83	26.39