

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: P1586777

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-668-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-A-60HE-L840
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 6700 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

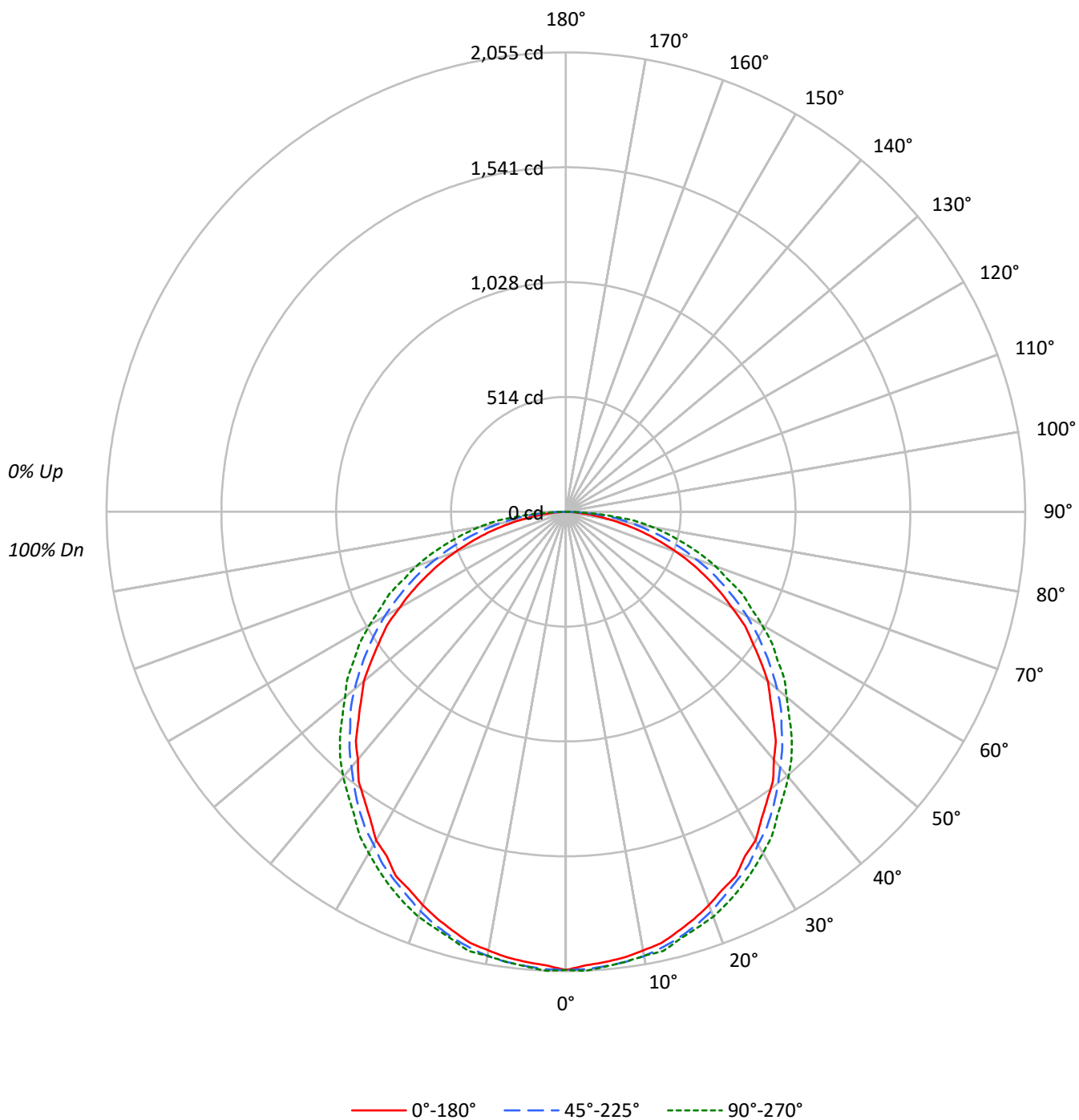
Lumens per Lamp: N/A
Luminaire Lumens: 6037.0 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45		56	50	44		55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35		46	40	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6418	6418	6418
5°	6355	6414	6419
10°	6335	6417	6411
15°	6297	6387	6411
20°	6239	6338	6424
25°	6214	6278	6405
30°	6136	6216	6376
35°	6007	6176	6317
40°	5918	6099	6333
45°	5806	6043	6329
50°	5748	6009	6279
55°	5565	5927	6310
60°	5377	5863	6348
65°	5144	5773	6457
70°	4835	5664	6525
75°	4357	5563	6658
80°	3563	5460	7092
85°	2321	5439	6636

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 7442 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.7	3.2
10°-20°	554.8	9.2
20°-30°	838.4	13.9
30°-40°	1011.2	16.8
40°-50°	1057.1	17.5
50°-60°	974.8	16.1
60°-70°	772.4	12.8
70°-80°	483.0	8.0
80°-90°	151.5	2.5
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°	1586.9	26.3
0°-40°	2598.1	43.0
0°-60°	4630.1	76.7
0°-90°	6037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2050	2050	2050	2050	2050	
5°	2022	2031	2040	2048	2042	192
15°	1942	1952	1970	1983	1978	548
25°	1798	1793	1817	1843	1854	825
35°	1571	1590	1616	1643	1653	986
45°	1311	1330	1365	1400	1429	1015
55°	1019	1043	1086	1145	1156	914
65°	694	724	779	840	872	688
75°	360	390	460	524	550	379
85°	65	92	151	177	185	85
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2049.6	2049.6	2049.6	2049.6	2049.6
2.5°	2031.2	2040.4	2047.8	2045.9	2055.2
5°	2021.9	2031.2	2040.4	2047.8	2042.2
7.5°	2010.8	2020.1	2031.2	2042.2	2031.2
10°	1992.4	1997.9	2018.2	2020.1	2016.4
12.5°	1975.8	1981.3	1996.1	2009.0	2012.7
15°	1942.5	1951.8	1970.2	1983.1	1977.6
17.5°	1909.3	1922.2	1938.8	1951.8	1951.8
20°	1872.4	1881.6	1901.9	1911.1	1927.7
22.5°	1829.9	1841.0	1857.6	1883.4	1892.7
25°	1798.5	1793.0	1817.0	1842.8	1853.9
27.5°	1735.7	1743.1	1776.3	1800.3	1809.6
30°	1696.9	1700.6	1719.1	1752.3	1763.4
32.5°	1628.6	1639.7	1672.9	1696.9	1717.2
35°	1571.4	1589.8	1615.7	1643.4	1652.6
37.5°	1521.5	1525.2	1554.8	1591.7	1599.1
40°	1447.7	1469.8	1492.0	1538.1	1549.2
42.5°	1390.4	1401.5	1432.9	1477.2	1493.8
45°	1311.0	1329.5	1364.6	1399.6	1429.2
47.5°	1240.8	1259.3	1305.5	1349.8	1355.3
50°	1179.9	1187.3	1233.5	1283.3	1288.9
52.5°	1096.8	1115.3	1159.6	1215.0	1233.5
55°	1019.3	1043.3	1085.7	1144.8	1155.9
57.5°	950.9	962.0	1011.9	1071.0	1093.1
60°	858.6	890.0	936.2	993.4	1013.7
62.5°	779.2	808.8	858.6	912.2	934.3
65°	694.3	723.8	779.2	840.2	871.5
67.5°	613.0	637.0	703.5	766.3	781.1
70°	528.1	555.8	618.6	683.2	712.7
72.5°	439.5	470.9	541.0	602.0	633.4
75°	360.1	389.6	459.8	524.4	550.3
77.5°	277.0	310.2	378.5	443.2	472.7
80°	197.6	230.8	302.8	367.5	393.3
82.5°	127.4	162.5	230.8	288.1	310.2
85°	64.6	92.3	151.4	177.3	184.7
87.5°	20.3	33.2	51.7	59.1	59.1
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	17.98	19.65	18.35	19.97	20.28	18.77	20.44	19.14	20.76	21.07
	3H	19.77	21.28	20.14	21.60	21.96	20.92	22.43	21.29	22.76	23.12
	4H	20.40	21.83	20.80	22.18	22.55	21.84	23.27	22.24	23.62	23.99
	6H	20.83	22.16	21.24	22.52	22.91	22.67	23.99	23.08	24.36	24.75
	8H	20.94	22.21	21.37	22.60	23.00	23.01	24.28	23.44	24.67	25.07
	12H	21.00	22.21	21.43	22.59	23.02	23.26	24.47	23.68	24.85	25.28
4H	2H	18.76	20.18	19.15	20.53	20.91	19.37	20.80	19.77	21.15	21.52
	3H	20.77	21.97	21.18	22.37	22.77	21.76	22.96	22.16	23.36	23.76
	4H	21.53	22.62	21.96	23.03	23.47	22.84	23.94	23.27	24.35	24.78
	6H	22.08	23.03	22.53	23.47	23.93	23.84	24.80	24.29	25.24	25.69
	8H	22.23	23.13	22.69	23.57	24.03	24.27	25.17	24.73	25.61	26.07
	12H	22.32	23.13	22.80	23.60	24.07	24.58	25.39	25.06	25.86	26.33
8H	4H	22.01	22.91	22.47	23.35	23.81	23.15	24.05	23.61	24.49	24.95
	6H	22.70	23.45	23.19	23.93	24.41	24.32	25.07	24.81	25.55	26.03
	8H	22.93	23.60	23.43	24.10	24.59	24.86	25.53	25.37	26.04	26.52
	12H	23.07	23.67	23.58	24.16	24.72	25.29	25.89	25.79	26.38	26.93
12H	4H	22.10	22.91	22.58	23.39	23.86	23.18	23.99	23.66	24.46	24.93
	6H	22.85	23.52	23.35	24.03	24.51	24.37	25.05	24.88	25.55	26.04
	8H	23.15	23.75	23.65	24.23	24.79	24.99	25.59	25.49	26.07	26.63