

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: P1586377

Luminaire Tested: 22CZSP-37HE-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586377
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-37HE-L840
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

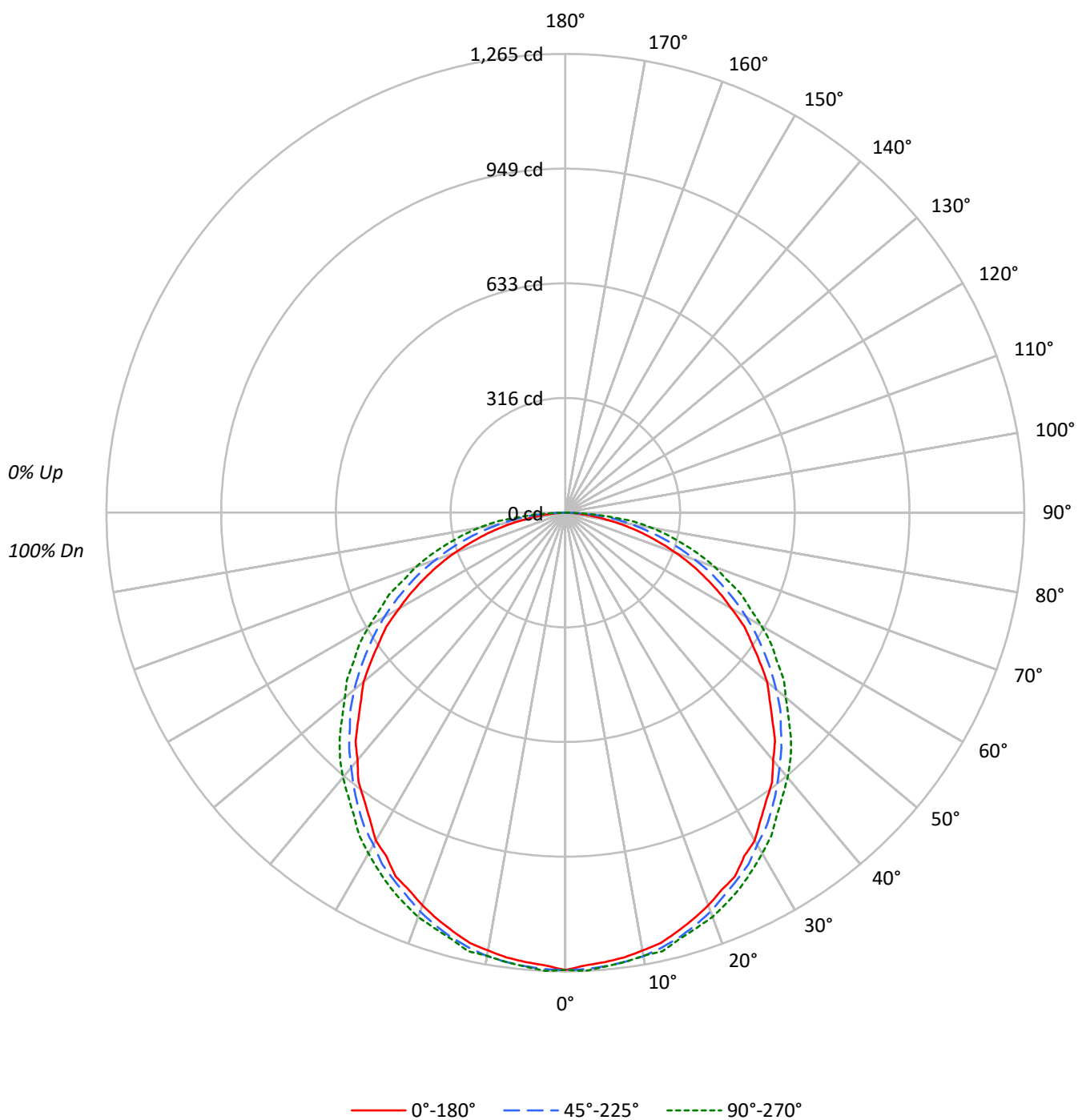
Lumens per Lamp: N/A
Luminaire Lumens: 3715.0 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.1
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°	3950	3950	3950
5°	3911	3947	3950
10°	3899	3949	3945
15°	3875	3930	3945
20°	3839	3900	3953
25°	3824	3863	3942
30°	3776	3825	3924
35°	3696	3800	3888
40°	3641	3753	3897
45°	3573	3718	3895
50°	3537	3697	3864
55°	3424	3647	3883
60°	3309	3608	3907
65°	3165	3553	3974
70°	2976	3485	4016
75°	2681	3423	4097
80°	2193	3361	4364
85°	1430	3348	4081

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4580 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	3.2
10°-20°	341.4	9.2
20°-30°	515.9	13.9
30°-40°	622.3	16.8
40°-50°	650.5	17.5
50°-60°	599.9	16.1
60°-70°	475.3	12.8
70°-80°	297.2	8.0
80°-90°	93.2	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°	976.5	26.3
0°-40°	1598.8	43.0
0°-60°	2849.2	76.7
0°-90°	3715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3715.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1261	1261	1261	1261	1261	
5°	1244	1250	1256	1260	1257	118
15°	1195	1201	1212	1220	1217	337
25°	1107	1103	1118	1134	1141	508
35°	967	978	994	1011	1017	606
45°	807	818	840	861	880	624
55°	627	642	668	704	711	562
65°	427	445	480	517	536	423
75°	222	240	283	323	339	233
85°	40	57	93	109	114	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1261.3	1261.3	1261.3	1261.3	1261.3
2.5°	1249.9	1255.6	1260.1	1259.0	1264.7
5°	1244.2	1249.9	1255.6	1260.1	1256.7
7.5°	1237.4	1243.1	1249.9	1256.7	1249.9
10°	1226.1	1229.5	1242.0	1243.1	1240.8
12.5°	1215.8	1219.2	1228.3	1236.3	1238.6
15°	1195.4	1201.1	1212.4	1220.4	1217.0
17.5°	1174.9	1182.9	1193.1	1201.1	1201.1
20°	1152.2	1157.9	1170.4	1176.1	1186.3
22.5°	1126.1	1132.9	1143.1	1159.0	1164.7
25°	1106.7	1103.3	1118.1	1134.0	1140.8
27.5°	1068.1	1072.7	1093.1	1107.9	1113.6
30°	1044.2	1046.5	1057.9	1078.3	1085.2
32.5°	1002.2	1009.0	1029.5	1044.2	1056.7
35°	967.0	978.3	994.2	1011.3	1017.0
37.5°	936.3	938.6	956.8	979.5	984.0
40°	890.8	904.5	918.1	946.5	953.3
42.5°	855.6	862.4	881.8	909.0	919.3
45°	806.8	818.1	839.7	861.3	879.5
47.5°	763.6	774.9	803.4	830.6	834.0
50°	726.1	730.6	759.0	789.7	793.1
52.5°	675.0	686.3	713.6	747.7	759.0
55°	627.2	642.0	668.1	704.5	711.3
57.5°	585.2	592.0	622.7	659.0	672.7
60°	528.4	547.7	576.1	611.3	623.8
62.5°	479.5	497.7	528.4	561.3	575.0
65°	427.2	445.4	479.5	517.0	536.3
67.5°	377.2	392.0	432.9	471.6	480.6
70°	325.0	342.0	380.7	420.4	438.6
72.5°	270.4	289.8	332.9	370.4	389.7
75°	221.6	239.8	282.9	322.7	338.6
77.5°	170.4	190.9	232.9	272.7	290.9
80°	121.6	142.0	186.4	226.1	242.0
82.5°	78.4	100.0	142.0	177.3	190.9
85°	39.8	56.8	93.2	109.1	113.6
87.5°	12.5	20.5	31.8	36.4	36.4
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	16.30	17.96	16.66	18.28	18.59	17.09	18.75	17.45	19.07	19.38
	3H	18.08	19.59	18.46	19.92	20.28	19.23	20.74	19.61	21.07	21.43
	4H	18.72	20.14	19.11	20.49	20.87	20.15	21.58	20.55	21.93	22.30
	6H	19.14	20.47	19.55	20.83	21.22	20.98	22.31	21.39	22.67	23.06
	8H	19.26	20.52	19.68	20.91	21.31	21.33	22.59	21.75	22.98	23.38
	12H	19.31	20.53	19.74	20.91	21.34	21.57	22.78	22.00	23.17	23.59
4H	2H	17.07	18.50	17.47	18.84	19.22	17.68	19.11	18.08	19.46	19.83
	3H	19.08	20.28	19.49	20.68	21.08	20.07	21.27	20.48	21.67	22.07
	4H	19.84	20.93	20.27	21.35	21.78	21.16	22.25	21.59	22.66	23.10
	6H	20.39	21.35	20.84	21.79	22.24	22.15	23.11	22.61	23.55	24.01
	8H	20.54	21.44	21.00	21.88	22.35	22.58	23.48	23.04	23.92	24.38
	12H	20.63	21.44	21.11	21.91	22.38	22.89	23.70	23.37	24.18	24.65
8H	4H	20.32	21.22	20.78	21.66	22.12	21.46	22.36	21.92	22.80	23.27
	6H	21.01	21.76	21.50	22.25	22.72	22.63	23.38	23.12	23.86	24.34
	8H	21.24	21.91	21.75	22.42	22.90	23.17	23.85	23.68	24.35	24.84
	12H	21.39	21.98	21.89	22.47	23.03	23.60	24.20	24.11	24.69	25.25
12H	4H	20.42	21.23	20.90	21.70	22.17	21.49	22.30	21.97	22.78	23.24
	6H	21.16	21.83	21.67	22.34	22.82	22.68	23.36	23.19	23.86	24.35
	8H	21.46	22.06	21.97	22.55	23.11	23.30	23.90	23.81	24.39	24.95