

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: P1588857

Luminaire Tested: 24CZSP-A-75-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2604-747-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-75-L840
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 7500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

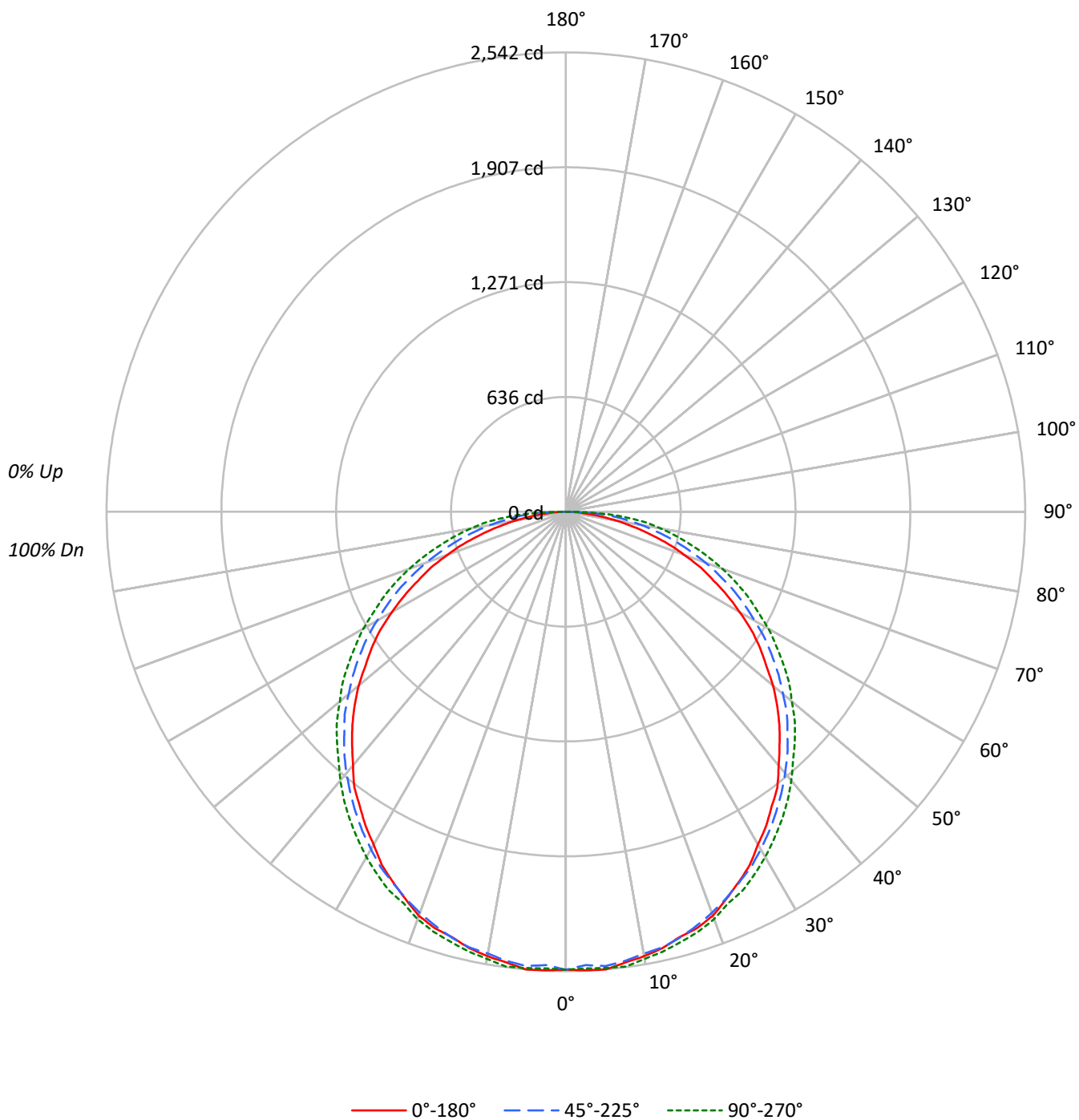
Lumens per Lamp: N/A
Luminaire Lumens: 7735.0 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 59.5
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82		
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67		
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56		
4	81	69	60	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48		
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41		
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36		
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32		
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28		
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25		
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3881	3881	3881
5°	3908	3879	3896
10°	3884	3861	3907
15°	3863	3869	3907
20°	3877	3850	3910
25°	3822	3829	3910
30°	3761	3814	3902
35°	3717	3793	3893
40°	3663	3774	3882
45°	3619	3756	3880
50°	3567	3739	3889
55°	3502	3725	3923
60°	3405	3700	3967
65°	3269	3699	4028
70°	3119	3675	4123
75°	2872	3683	4276
80°	2516	3758	4706
85°	1921	4330	5632

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 6243 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.6	3.1
10°-20°	691.6	8.9
20°-30°	1050.7	13.6
30°-40°	1272.7	16.5
40°-50°	1339.0	17.3
50°-60°	1245.0	16.1
60°-70°	1002.4	13.0
70°-80°	649.4	8.4
80°-90°	243.5	3.1
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°	1982.9	25.6
0°-40°	3255.7	42.1
0°-60°	5839.7	75.5
0°-90°	7735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2534	2534	2534	2534	2534	
5°	2542	2538	2523	2538	2534	241
15°	2436	2445	2440	2469	2464	690
25°	2262	2260	2266	2304	2314	1043
35°	1988	2002	2028	2064	2082	1245
45°	1671	1693	1734	1771	1791	1288
55°	1312	1345	1395	1450	1469	1170
65°	902	943	1021	1082	1112	897
75°	485	534	622	695	722	516
85°	109	161	246	308	320	134
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2534.2	2534.2	2534.2	2534.2	2534.2
2.5°	2539.7	2539.7	2510.1	2541.6	2528.6
5°	2541.6	2537.9	2523.0	2537.9	2534.2
7.5°	2515.6	2519.3	2506.4	2524.9	2537.9
10°	2497.1	2500.8	2482.3	2511.9	2511.9
12.5°	2473.0	2476.7	2469.3	2497.1	2491.6
15°	2436.0	2445.2	2439.7	2469.3	2463.8
17.5°	2415.6	2408.2	2402.6	2424.9	2436.0
20°	2378.6	2361.9	2361.9	2391.5	2398.9
22.5°	2319.3	2313.7	2315.6	2352.6	2345.2
25°	2261.8	2260.0	2265.6	2304.5	2313.7
27.5°	2204.4	2200.7	2217.4	2254.4	2261.8
30°	2126.6	2134.0	2156.3	2197.0	2206.3
32.5°	2061.8	2074.8	2095.1	2134.0	2145.1
35°	1987.7	2002.5	2028.4	2063.6	2082.2
37.5°	1922.9	1932.1	1959.9	1993.2	2015.5
40°	1832.1	1856.2	1887.7	1935.8	1941.4
42.5°	1750.6	1774.7	1815.4	1867.3	1861.7
45°	1670.9	1693.1	1733.9	1770.9	1791.3
47.5°	1585.7	1606.1	1659.8	1704.3	1719.1
50°	1496.8	1522.7	1569.0	1615.3	1632.0
52.5°	1396.8	1424.5	1483.8	1533.8	1557.9
55°	1311.5	1344.9	1394.9	1450.5	1469.0
57.5°	1217.1	1244.9	1306.0	1361.6	1380.1
60°	1111.5	1144.8	1207.8	1267.1	1294.9
62.5°	1009.6	1046.6	1113.3	1174.5	1196.7
65°	902.1	942.9	1020.7	1081.8	1111.5
67.5°	809.5	842.9	918.8	987.4	1018.9
70°	696.5	741.0	820.6	896.6	920.7
72.5°	596.5	635.4	718.8	794.7	824.3
75°	485.3	533.5	622.4	694.7	722.5
77.5°	383.5	433.5	522.4	598.3	629.8
80°	285.3	333.4	426.1	503.9	533.5
82.5°	192.7	240.8	333.4	409.4	442.7
85°	109.3	161.2	246.4	307.5	320.5
87.5°	48.2	92.6	138.9	166.7	177.8
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	16.40	18.08	16.76	18.39	18.71	17.07	18.75	17.44	19.07	19.38
	3H	18.25	19.78	18.63	20.10	20.46	19.29	20.82	19.67	21.14	21.50
	4H	18.94	20.38	19.33	20.73	21.10	20.25	21.70	20.65	22.04	22.42
	6H	19.43	20.77	19.84	21.13	21.52	21.14	22.49	21.55	22.85	23.24
	8H	19.58	20.86	20.00	21.25	21.65	21.55	22.83	21.97	23.22	23.62
	12H	19.67	20.90	20.09	21.28	21.71	21.91	23.14	22.34	23.52	23.95
4H	2H	17.19	18.63	17.59	18.98	19.35	17.71	19.15	18.11	19.50	19.87
	3H	19.28	20.50	19.69	20.89	21.29	20.17	21.39	20.58	21.79	22.19
	4H	20.10	21.21	20.53	21.62	22.05	21.30	22.41	21.73	22.82	23.25
	6H	20.72	21.70	21.17	22.14	22.59	22.37	23.34	22.82	23.78	24.24
	8H	20.92	21.83	21.38	22.28	22.74	22.86	23.77	23.32	24.21	24.68
	12H	21.05	21.88	21.53	22.35	22.82	23.31	24.14	23.79	24.61	25.08
8H	4H	20.61	21.52	21.06	21.96	22.43	21.64	22.56	22.10	23.00	23.46
	6H	21.39	22.16	21.88	22.64	23.12	22.89	23.66	23.38	24.14	24.62
	8H	21.67	22.36	22.18	22.87	23.35	23.51	24.20	24.02	24.71	25.19
	12H	21.89	22.50	22.40	22.99	23.55	24.12	24.74	24.63	25.23	25.78
12H	4H	20.71	21.54	21.19	22.01	22.48	21.68	22.51	22.16	22.98	23.45
	6H	21.56	22.25	22.06	22.75	23.24	22.96	23.66	23.47	24.16	24.64
	8H	21.93	22.54	22.43	23.03	23.59	23.67	24.28	24.17	24.77	25.33