

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: P1588855

Luminaire Tested: 24CZSP-A-75-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588855
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-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 7500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

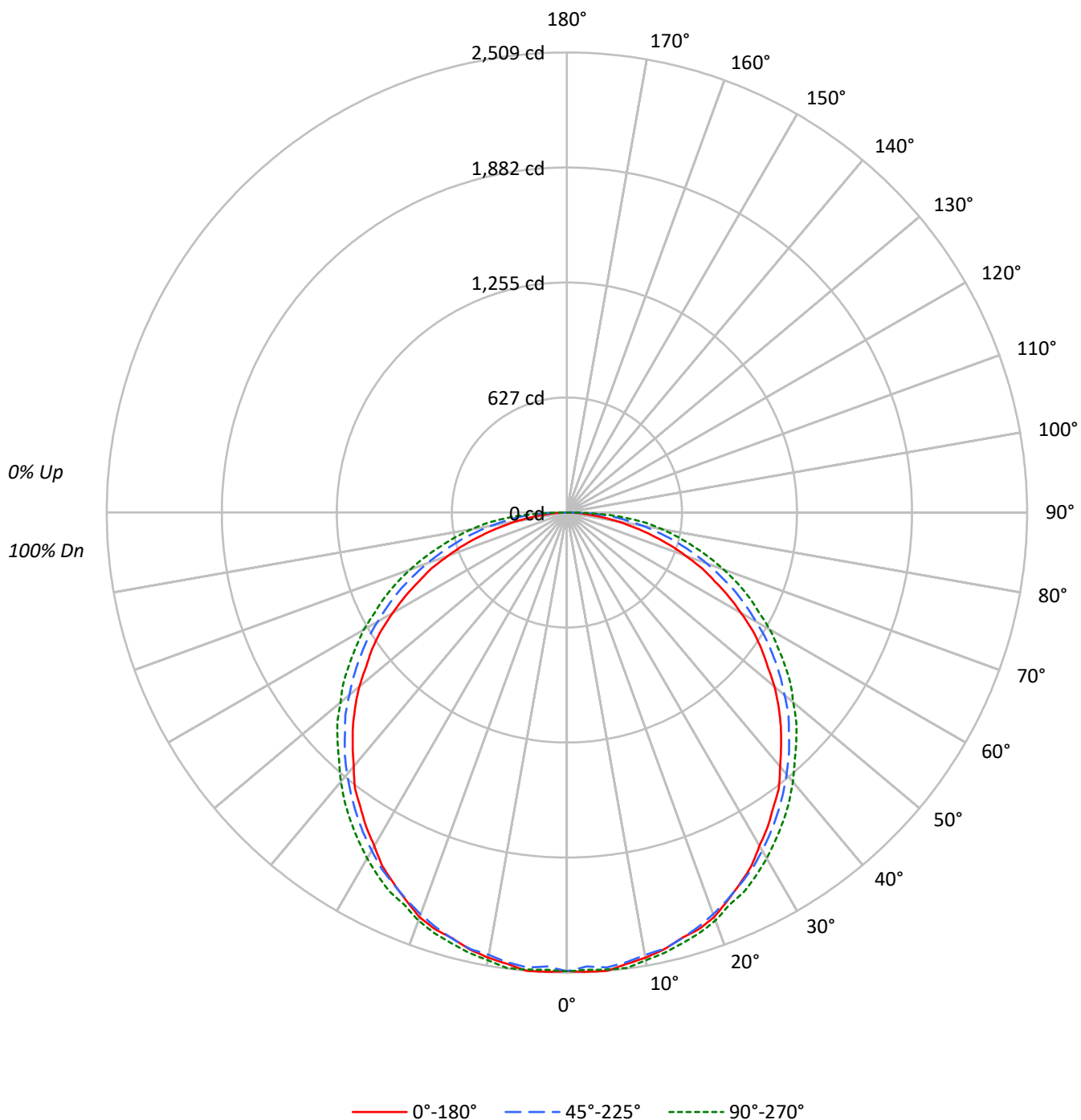
Lumens per Lamp: N/A
Luminaire Lumens: 7636.0 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	0
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°	3832	3832	3832
5°	3858	3830	3846
10°	3834	3811	3857
15°	3813	3819	3857
20°	3827	3800	3860
25°	3774	3780	3860
30°	3713	3765	3852
35°	3669	3744	3843
40°	3616	3726	3832
45°	3573	3708	3830
50°	3521	3691	3839
55°	3458	3677	3872
60°	3361	3652	3916
65°	3228	3652	3976
70°	3079	3628	4070
75°	2835	3636	4221
80°	2484	3710	4646
85°	1896	4274	5560

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 6166 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.5	3.1
10°-20°	682.8	8.9
20°-30°	1037.2	13.6
30°-40°	1256.4	16.5
40°-50°	1321.9	17.3
50°-60°	1229.1	16.1
60°-70°	989.6	13.0
70°-80°	641.1	8.4
80°-90°	240.4	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°	1957.6	25.6
0°-40°	3214.0	42.1
0°-60°	5764.9	75.5
0°-90°	7636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2502	2502	2502	2502	2502	
5°	2509	2505	2491	2505	2502	238
15°	2405	2414	2408	2438	2432	681
25°	2233	2231	2237	2275	2284	1029
35°	1962	1977	2002	2037	2056	1229
45°	1650	1672	1712	1748	1768	1272
55°	1295	1328	1377	1432	1450	1155
65°	891	931	1008	1068	1097	886
75°	479	527	614	686	713	509
85°	108	159	243	304	316	132
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2501.7	2501.7	2501.7	2501.7	2501.7
2.5°	2507.2	2507.2	2478.0	2509.0	2496.2
5°	2509.0	2505.4	2490.8	2505.4	2501.7
7.5°	2483.4	2487.1	2474.3	2492.6	2505.4
10°	2465.2	2468.8	2450.5	2479.8	2479.8
12.5°	2441.4	2445.0	2437.7	2465.2	2459.7
15°	2404.8	2413.9	2408.5	2437.7	2432.2
17.5°	2384.7	2377.4	2371.9	2393.8	2404.8
20°	2348.1	2331.7	2331.7	2360.9	2368.2
22.5°	2289.6	2284.1	2285.9	2322.5	2315.2
25°	2232.9	2231.1	2236.6	2275.0	2284.1
27.5°	2176.2	2172.6	2189.0	2225.6	2232.9
30°	2099.4	2106.7	2128.7	2168.9	2178.0
32.5°	2035.4	2048.2	2068.3	2106.7	2117.7
35°	1962.2	1976.9	2002.5	2037.2	2055.5
37.5°	1898.2	1907.4	1934.8	1967.7	1989.7
40°	1808.6	1832.4	1863.5	1911.0	1916.5
42.5°	1728.2	1751.9	1792.2	1843.4	1837.9
45°	1649.5	1671.5	1711.7	1748.3	1768.4
47.5°	1565.4	1585.5	1638.6	1682.4	1697.1
50°	1477.6	1503.2	1548.9	1594.7	1611.1
52.5°	1378.9	1406.3	1464.8	1514.2	1538.0
55°	1294.8	1327.7	1377.0	1431.9	1450.2
57.5°	1201.5	1228.9	1289.3	1344.1	1362.4
60°	1097.2	1130.2	1192.3	1250.9	1278.3
62.5°	996.7	1033.2	1099.1	1159.4	1181.4
65°	890.6	930.8	1007.6	1068.0	1097.2
67.5°	799.2	832.1	907.1	974.7	1005.8
70°	687.6	731.5	810.1	885.1	908.9
72.5°	588.9	627.3	709.6	784.5	813.8
75°	479.1	526.7	614.5	685.8	713.2
77.5°	378.6	427.9	515.7	590.7	621.8
80°	281.6	329.2	420.6	497.4	526.7
82.5°	190.2	237.7	329.2	404.2	437.1
85°	107.9	159.1	243.2	303.6	316.4
87.5°	47.5	91.4	137.2	164.6	175.6
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	16.35	18.03	16.72	18.35	18.66	17.03	18.71	17.39	19.02	19.34
	3H	18.21	19.73	18.58	20.06	20.42	19.24	20.77	19.62	21.10	21.46
	4H	18.89	20.34	19.29	20.68	21.06	20.21	21.65	20.60	22.00	22.37
	6H	19.38	20.73	19.79	21.09	21.48	21.10	22.44	21.51	22.80	23.20
	8H	19.53	20.82	19.95	21.20	21.60	21.50	22.79	21.93	23.18	23.57
	12H	19.62	20.85	20.05	21.23	21.66	21.86	23.09	22.29	23.48	23.90
4H	2H	17.14	18.59	17.54	18.94	19.31	17.66	19.11	18.06	19.46	19.83
	3H	19.23	20.45	19.64	20.85	21.25	20.12	21.35	20.53	21.74	22.14
	4H	20.05	21.16	20.48	21.57	22.01	21.25	22.36	21.68	22.78	23.21
	6H	20.68	21.65	21.13	22.09	22.54	22.32	23.30	22.77	23.74	24.19
	8H	20.87	21.79	21.33	22.23	22.69	22.81	23.73	23.27	24.17	24.63
	12H	21.01	21.84	21.49	22.31	22.78	23.27	24.09	23.74	24.57	25.03
8H	4H	20.56	21.48	21.02	21.92	22.38	21.60	22.51	22.05	22.95	23.42
	6H	21.35	22.11	21.84	22.60	23.07	22.85	23.61	23.34	24.10	24.57
	8H	21.63	22.32	22.13	22.82	23.31	23.47	24.16	23.97	24.66	25.15
	12H	21.85	22.46	22.35	22.95	23.51	24.08	24.69	24.58	25.18	25.74
12H	4H	20.67	21.49	21.15	21.97	22.44	21.63	22.46	22.11	22.93	23.40
	6H	21.51	22.20	22.02	22.71	23.19	22.92	23.61	23.42	24.11	24.60
	8H	21.88	22.50	22.39	22.98	23.54	23.63	24.24	24.13	24.73	25.28