

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: P1588877

Luminaire Tested: 24CZSP-A-75VHE-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-776-5)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-75VHE-L840
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 8000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

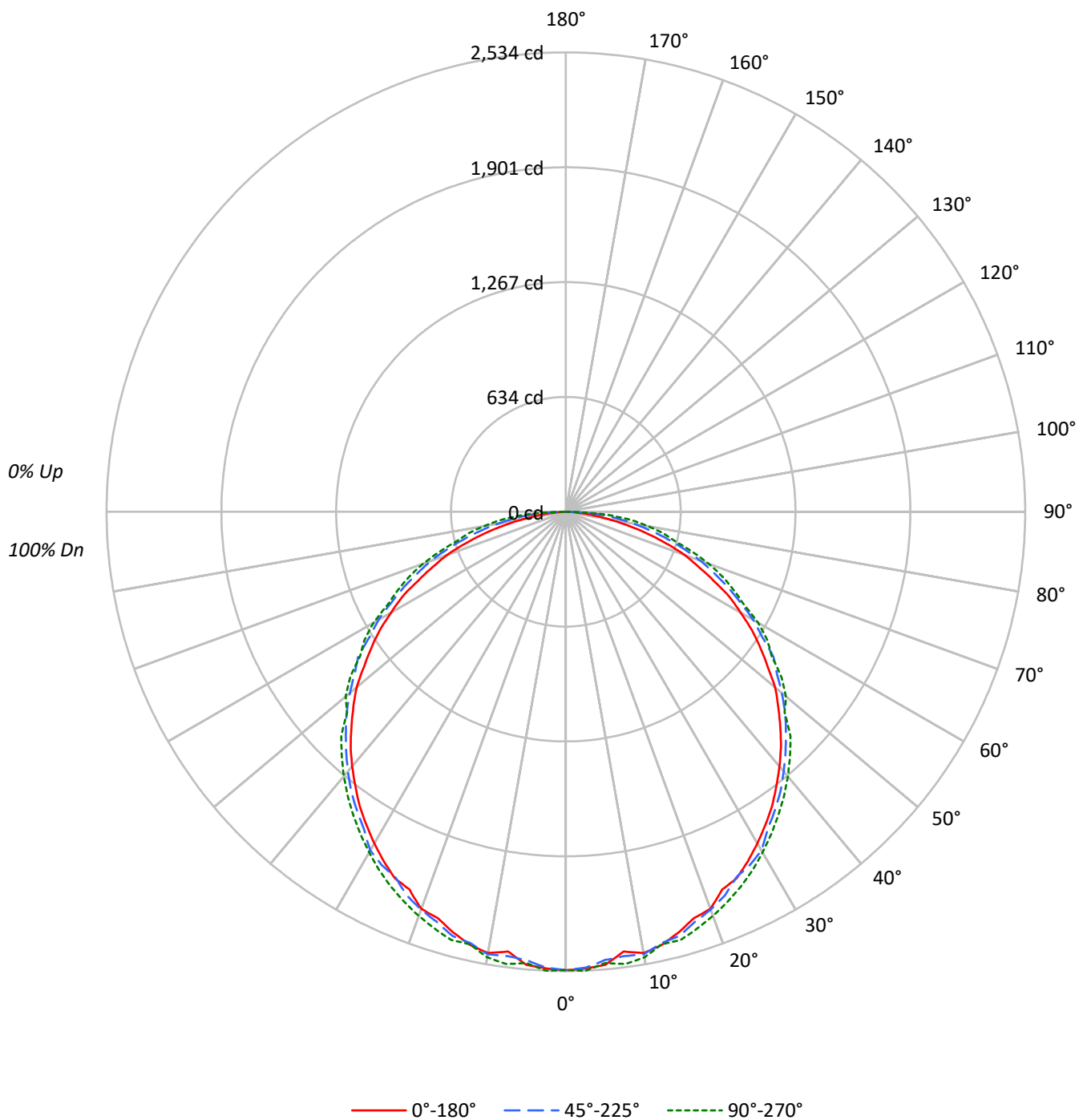
Lumens per Lamp: N/A
Luminaire Lumens: 7548.0 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 56.9
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	89	82	76	95	88	81	75	84	78	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3873	3873	3873
5°	3856	3816	3842
10°	3844	3854	3881
15°	3809	3840	3877
20°	3800	3806	3867
25°	3769	3759	3856
30°	3736	3816	3838
35°	3708	3759	3821
40°	3667	3739	3808
45°	3621	3719	3794
50°	3591	3704	3777
55°	3501	3737	3698
60°	3412	3657	3752
65°	3258	3578	3701
70°	3124	3547	3755
75°	2767	3441	3678
80°	2184	3362	4069
85°	1336	3594	4639

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 4639 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.8	3.2
10°-20°	682.1	9.0
20°-30°	1039.2	13.8
30°-40°	1265.0	16.8
40°-50°	1326.4	17.6
50°-60°	1228.7	16.3
60°-70°	968.9	12.8
70°-80°	599.4	7.9
80°-90°	199.6	2.6
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°	1960.1	26.0
0°-40°	3225.1	42.7
0°-60°	5780.1	76.6
0°-90°	7548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7548.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2528	2528	2528	2528	2528	
5°	2508	2507	2482	2537	2499	237
15°	2402	2414	2422	2404	2445	678
25°	2230	2243	2224	2286	2282	1025
35°	1983	2001	2011	2049	2044	1239
45°	1672	1702	1717	1736	1752	1291
55°	1311	1350	1399	1412	1385	1173
65°	899	934	987	1024	1021	895
75°	468	504	582	626	622	494
85°	76	130	204	249	264	102
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2528.5	2528.5	2528.5	2528.5	2528.5
2.5°	2521.3	2536.7	2517.2	2533.6	2533.6
5°	2507.9	2506.9	2482.2	2536.7	2498.7
7.5°	2446.3	2489.4	2471.9	2538.7	2516.1
10°	2471.9	2460.6	2478.1	2523.3	2495.6
12.5°	2446.3	2464.8	2437.0	2414.4	2443.2
15°	2402.1	2414.4	2421.6	2404.1	2445.2
17.5°	2349.7	2395.9	2371.3	2363.0	2410.3
20°	2331.2	2333.2	2335.3	2377.4	2372.3
22.5°	2255.2	2296.3	2291.1	2325.0	2329.1
25°	2230.5	2242.8	2224.3	2286.0	2281.9
27.5°	2174.0	2200.7	2197.6	2218.2	2229.5
30°	2112.4	2139.1	2157.6	2135.0	2169.9
32.5°	2048.7	2093.9	2073.3	2115.4	2108.2
35°	1982.9	2001.4	2010.6	2048.7	2043.5
37.5°	1906.9	1938.7	1943.9	2001.4	1976.7
40°	1833.9	1865.8	1869.9	1903.8	1904.8
42.5°	1756.9	1772.3	1793.9	1832.9	1829.8
45°	1671.6	1702.4	1716.8	1736.3	1751.7
47.5°	1589.4	1622.3	1640.8	1672.6	1636.7
50°	1507.2	1530.8	1554.5	1588.4	1585.3
52.5°	1403.4	1456.9	1468.2	1486.7	1499.0
55°	1311.0	1350.0	1399.3	1411.7	1384.9
57.5°	1217.5	1247.3	1283.2	1321.2	1318.2
60°	1113.7	1149.7	1193.9	1222.6	1224.7
62.5°	1019.2	1043.8	1086.0	1128.1	1106.5
65°	899.0	933.9	987.3	1024.3	1021.2
67.5°	792.1	830.1	884.6	932.9	934.9
70°	697.6	718.2	792.1	829.1	838.4
72.5°	581.5	617.5	683.2	724.3	728.4
75°	467.5	504.5	581.5	625.7	621.6
77.5°	351.4	404.8	479.8	532.2	549.7
80°	247.6	295.9	381.2	432.5	461.3
82.5°	156.2	206.5	289.7	353.4	370.9
85°	76.0	129.5	204.5	248.6	264.0
87.5°	19.5	53.4	94.5	116.1	125.3
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	16.51	18.18	16.87	18.49	18.81	16.94	18.61	17.30	18.92	19.24
	3H	18.31	19.82	18.68	20.15	20.51	19.01	20.53	19.39	20.85	21.21
	4H	18.95	20.38	19.35	20.73	21.10	19.85	21.28	20.25	21.63	22.01
	6H	19.36	20.69	19.77	21.05	21.44	20.64	21.97	21.05	22.33	22.72
	8H	19.46	20.73	19.89	21.12	21.52	20.99	22.26	21.41	22.65	23.04
	12H	19.51	20.73	19.94	21.11	21.54	21.28	22.50	21.71	22.88	23.31
4H	2H	17.25	18.68	17.64	19.02	19.40	17.58	19.01	17.98	19.36	19.73
	3H	19.28	20.49	19.69	20.88	21.28	19.89	21.10	20.30	21.50	21.90
	4H	20.05	21.15	20.48	21.56	21.99	20.90	21.99	21.33	22.41	22.84
	6H	20.59	21.55	21.04	21.99	22.44	21.85	22.81	22.30	23.25	23.70
	8H	20.73	21.63	21.19	22.07	22.54	22.27	23.17	22.73	23.62	24.08
	12H	20.81	21.63	21.29	22.10	22.57	22.65	23.47	23.13	23.94	24.41
8H	4H	20.50	21.40	20.96	21.84	22.31	21.24	22.14	21.70	22.58	23.04
	6H	21.18	21.93	21.67	22.42	22.89	22.35	23.11	22.84	23.59	24.07
	8H	21.40	22.08	21.91	22.58	23.06	22.90	23.58	23.41	24.08	24.57
	12H	21.55	22.15	22.05	22.63	23.19	23.42	24.02	23.92	24.51	25.07
12H	4H	20.59	21.40	21.06	21.87	22.34	21.27	22.08	21.75	22.56	23.03
	6H	21.31	21.99	21.82	22.50	22.98	22.42	23.10	22.93	23.60	24.09
	8H	21.61	22.21	22.11	22.70	23.26	23.04	23.64	23.55	24.13	24.69