

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: P1588457

Luminaire Tested: 24CZSP-65-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588457
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-65-L840
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 6000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

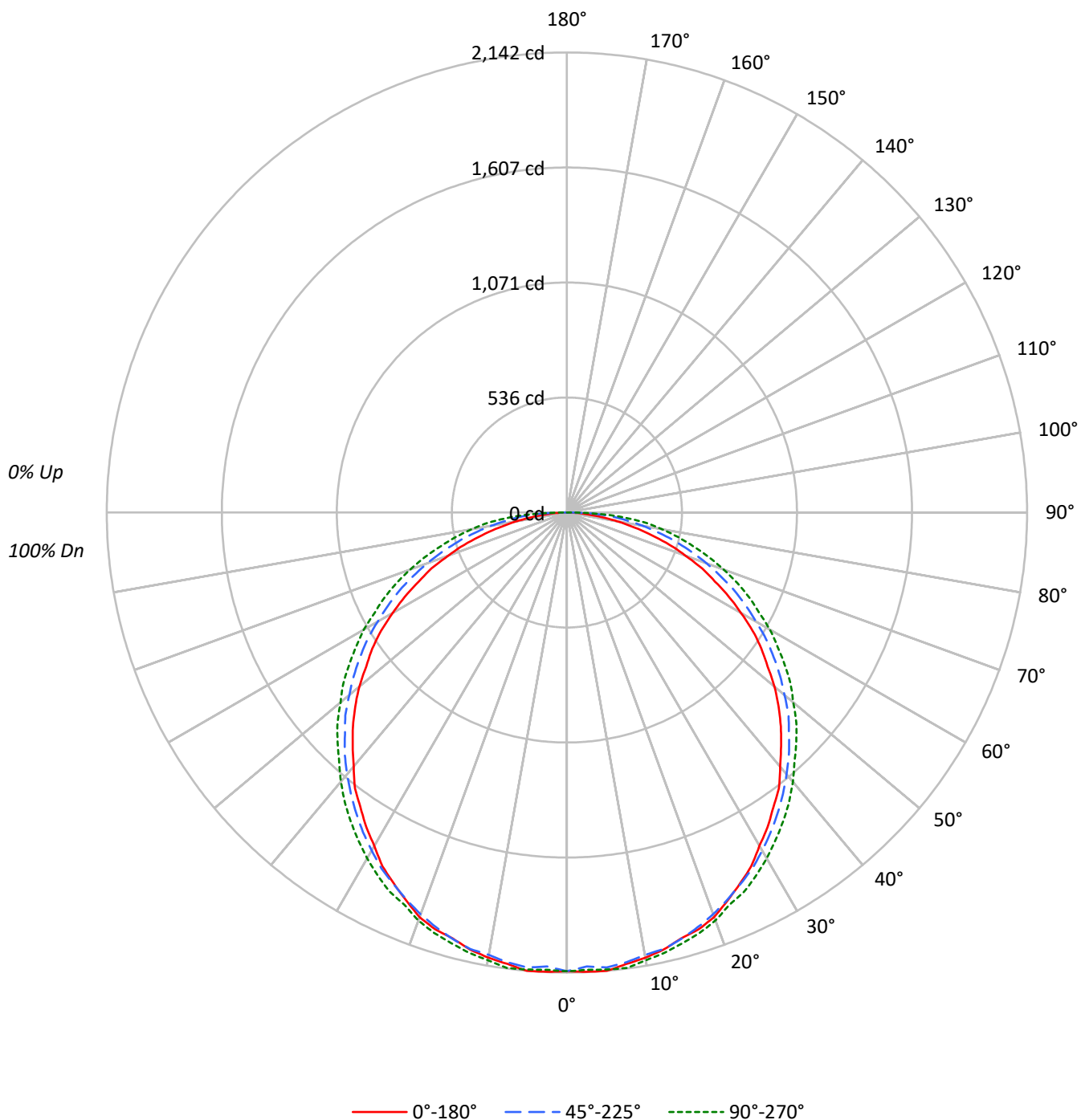
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6519.0 lumens
Efficiency: N/A
Efficacy: 136.1 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): 47.9
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	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°	3271	3271	3271
5°	3293	3269	3284
10°	3273	3254	3292
15°	3255	3260	3292
20°	3267	3245	3295
25°	3222	3227	3295
30°	3170	3214	3288
35°	3132	3197	3281
40°	3087	3181	3271
45°	3050	3165	3270
50°	3006	3151	3277
55°	2952	3139	3306
60°	2869	3118	3343
65°	2755	3117	3395
70°	2629	3097	3475
75°	2420	3104	3603
80°	2120	3167	3966
85°	1619	3648	4747

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 5264 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.8	3.1
10°-20°	582.9	8.9
20°-30°	885.5	13.6
30°-40°	1072.7	16.5
40°-50°	1128.5	17.3
50°-60°	1049.3	16.1
60°-70°	844.8	13.0
70°-80°	547.3	8.4
80°-90°	205.2	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°	1671.2	25.6
0°-40°	2743.9	42.1
0°-60°	4921.6	75.5
0°-90°	6519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6519.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2136	2136	2136	2136	2136	
5°	2142	2139	2126	2139	2136	203
15°	2053	2061	2056	2081	2076	582
25°	1906	1905	1909	1942	1950	879
35°	1675	1688	1710	1739	1755	1050
45°	1408	1427	1461	1492	1510	1086
55°	1105	1134	1176	1222	1238	986
65°	760	795	860	912	937	756
75°	409	450	525	586	609	435
85°	92	136	208	259	270	113
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2135.8	2135.8	2135.8	2135.8	2135.8
2.5°	2140.5	2140.5	2115.5	2142.0	2131.1
5°	2142.0	2138.9	2126.4	2138.9	2135.8
7.5°	2120.2	2123.3	2112.4	2128.0	2138.9
10°	2104.5	2107.7	2092.1	2117.0	2117.0
12.5°	2084.3	2087.4	2081.1	2104.5	2099.9
15°	2053.0	2060.8	2056.1	2081.1	2076.4
17.5°	2035.9	2029.6	2024.9	2043.7	2053.0
20°	2004.6	1990.6	1990.6	2015.6	2021.8
22.5°	1954.7	1950.0	1951.5	1982.8	1976.5
25°	1906.3	1904.7	1909.4	1942.2	1950.0
27.5°	1857.9	1854.7	1868.8	1900.0	1906.3
30°	1792.3	1798.5	1817.3	1851.6	1859.4
32.5°	1737.7	1748.6	1765.8	1798.5	1807.9
35°	1675.2	1687.7	1709.6	1739.2	1754.8
37.5°	1620.6	1628.4	1651.8	1679.9	1698.6
40°	1544.1	1564.4	1590.9	1631.5	1636.2
42.5°	1475.4	1495.7	1530.0	1573.7	1569.0
45°	1408.2	1427.0	1461.3	1492.5	1509.7
47.5°	1336.4	1353.6	1398.9	1436.3	1448.8
50°	1261.5	1283.3	1322.4	1361.4	1375.4
52.5°	1177.2	1200.6	1250.6	1292.7	1313.0
55°	1105.4	1133.5	1175.6	1222.4	1238.1
57.5°	1025.7	1049.2	1100.7	1147.5	1163.1
60°	936.7	964.8	1017.9	1067.9	1091.3
62.5°	850.9	882.1	938.3	989.8	1008.6
65°	760.3	794.7	860.2	911.8	936.7
67.5°	682.3	710.4	774.4	832.1	858.7
70°	587.0	624.5	691.6	755.6	775.9
72.5°	502.7	535.5	605.8	669.8	694.8
75°	409.0	449.6	524.6	585.5	608.9
77.5°	323.2	365.3	440.3	504.3	530.8
80°	240.4	281.0	359.1	424.7	449.6
82.5°	162.4	203.0	281.0	345.0	373.1
85°	92.1	135.8	207.6	259.2	270.1
87.5°	40.6	78.1	117.1	140.5	149.9
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	15.80	17.48	16.17	17.80	18.11	16.48	18.16	16.84	18.47	18.79
	3H	17.66	19.18	18.03	19.51	19.87	18.69	20.22	19.07	20.55	20.91
	4H	18.34	19.79	18.74	20.13	20.51	19.66	21.10	20.06	21.45	21.82
	6H	18.83	20.18	19.24	20.54	20.93	20.55	21.89	20.96	22.26	22.65
	8H	18.98	20.27	19.41	20.65	21.05	20.95	22.24	21.38	22.63	23.02
	12H	19.07	20.30	19.50	20.68	21.11	21.31	22.55	21.74	22.93	23.35
4H	2H	16.60	18.04	16.99	18.39	18.76	17.11	18.56	17.51	18.91	19.28
	3H	18.68	19.90	19.09	20.30	20.70	19.58	20.80	19.98	21.19	21.59
	4H	19.50	20.61	19.93	21.02	21.46	20.70	21.81	21.13	22.23	22.66
	6H	20.13	21.10	20.58	21.54	21.99	21.77	22.75	22.23	23.19	23.64
	8H	20.33	21.24	20.78	21.68	22.14	22.26	23.18	22.72	23.62	24.08
	12H	20.46	21.29	20.94	21.76	22.23	22.72	23.54	23.19	24.02	24.48
8H	4H	20.01	20.93	20.47	21.37	21.83	21.05	21.96	21.50	22.40	22.87
	6H	20.80	21.56	21.29	22.05	22.52	22.30	23.06	22.79	23.55	24.02
	8H	21.08	21.77	21.59	22.27	22.76	22.92	23.61	23.42	24.11	24.60
	12H	21.30	21.91	21.80	22.40	22.96	23.53	24.14	24.03	24.63	25.19
12H	4H	20.12	20.95	20.60	21.42	21.89	21.08	21.91	21.56	22.38	22.85
	6H	20.96	21.65	21.47	22.16	22.64	22.37	23.06	22.88	23.57	24.05
	8H	21.33	21.95	21.84	22.43	22.99	23.08	23.69	23.58	24.18	24.73