

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1438792

Luminaire Tested: CB2-0U-XD-940-B10-UNV-STD-W-4

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438792  
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2312-242-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/31/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB2-0U-XD-940-B10-UNV-STD-W-4  
Description: CORELITE BASIC SLOT LED LUMINAIRE  
2-INCH APERTURE  
DOWNLIGHT UNDER 10W BATTERY POWER  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

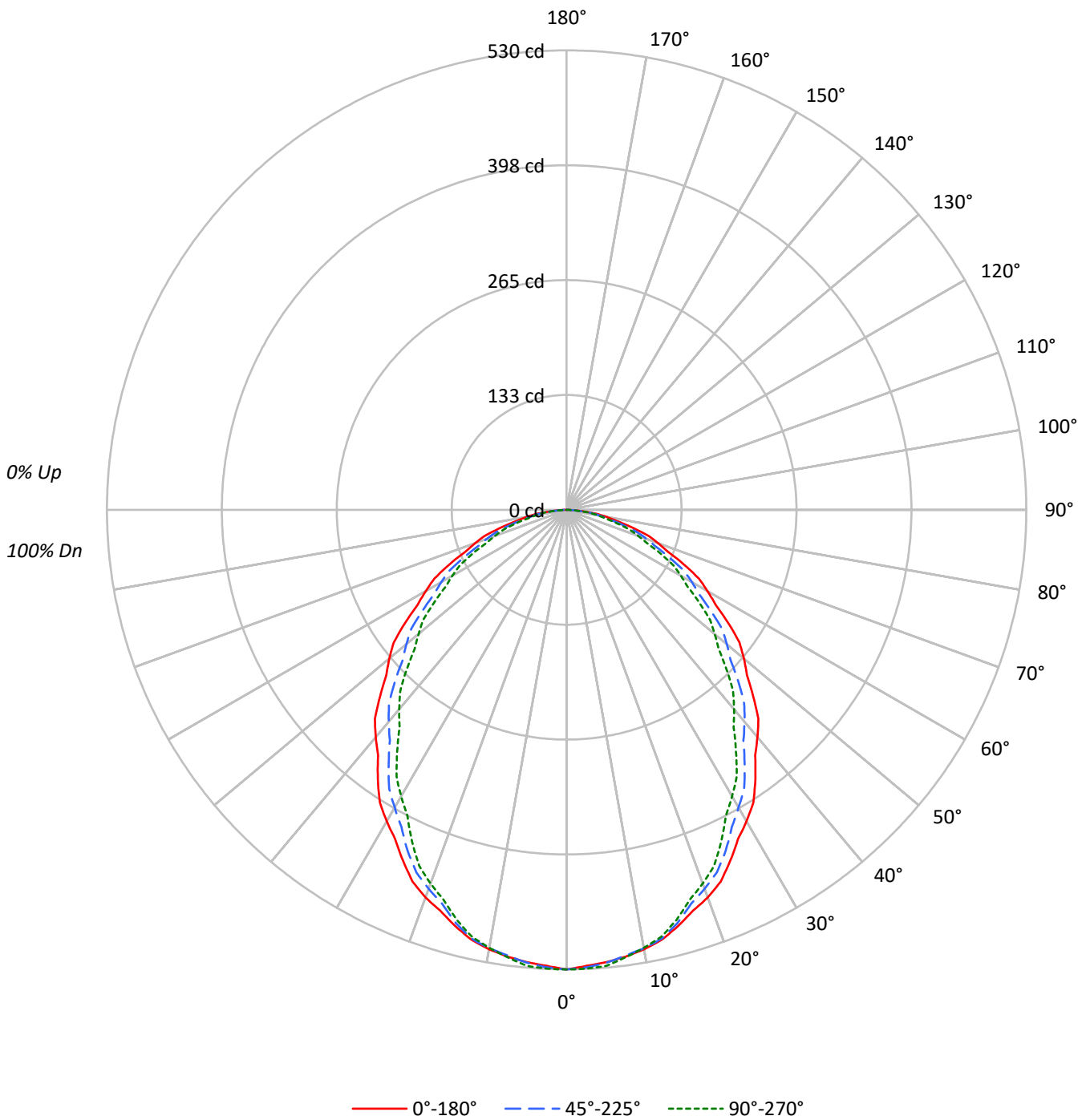
Lumens per Lamp: N/A  
Luminaire Lumens: 1236.1 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	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	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85																												
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72																												
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61																												
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53																												
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46																												
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41																												
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36																												
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33																												
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29																												
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27																												

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9233	9233	9233
5°	9155	9169	9231
10°	9101	9080	9073
15°	8958	8899	8827
20°	8817	8621	8500
25°	8581	8339	8104
30°	8342	7974	7673
35°	8069	7604	7240
40°	7781	7253	6828
45°	7488	6887	6429
50°	7227	6533	6037
55°	6902	6161	5669
60°	6532	5810	5302
65°	6141	5420	4933
70°	5704	4980	4466
75°	5188	4509	4044
80°	4644	3952	3661
85°	3577	3237	2678

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7488 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.8	4.0
10°-20°	139.0	11.2
20°-30°	199.8	16.2
30°-40°	224.6	18.2
40°-50°	216.9	17.5
50°-60°	183.3	14.8
60°-70°	131.6	10.7
70°-80°	72.0	5.8
80°-90°	19.1	1.5
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°	388.6	31.4
0°-40°	613.2	49.6
0°-60°	1013.3	82.0
0°-90°	1236.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1236.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	524	531	524	524	528	50
15°	497	501	494	489	490	140
25°	446	447	434	424	422	206
35°	380	375	358	344	340	237
45°	304	298	280	265	261	235
55°	227	219	203	190	187	203
65°	149	143	132	122	120	148
75°	77	72	67	62	60	82
85°	18	17	16	14	13	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	530.1	530.1	530.1	530.1	530.1
2.5°	526.5	532.8	528.1	528.8	529.7
5°	523.6	530.7	524.4	524.5	528.0
7.5°	519.8	526.6	518.6	517.2	520.5
10°	514.6	521.4	513.4	510.6	513.0
12.5°	507.8	514.3	506.6	502.2	504.3
15°	496.8	501.2	493.5	488.7	489.5
17.5°	484.8	487.5	476.5	472.4	471.6
20°	475.7	478.1	465.1	459.4	458.6
22.5°	464.0	466.1	452.5	445.5	444.3
25°	446.5	446.9	433.9	424.1	421.7
27.5°	428.1	426.8	412.4	400.9	397.8
30°	414.8	413.2	396.5	384.3	381.5
32.5°	400.5	397.7	381.0	367.7	365.0
35°	379.5	375.1	357.6	343.7	340.5
37.5°	357.1	352.2	334.9	319.8	316.3
40°	342.2	336.6	319.0	303.9	300.3
42.5°	327.2	321.0	303.1	288.0	284.1
45°	304.0	297.6	279.6	264.9	261.0
47.5°	281.9	273.8	256.3	241.7	237.8
50°	266.7	257.9	241.1	226.8	222.8
52.5°	251.1	242.0	225.8	212.2	208.2
55°	227.3	219.0	202.9	190.3	186.7
57.5°	203.7	195.7	181.1	169.0	165.5
60°	187.5	180.8	166.8	155.4	152.2
62.5°	171.9	165.8	152.5	142.1	138.9
65°	149.0	143.4	131.5	122.1	119.7
67.5°	126.6	121.1	111.5	103.0	100.3
70°	112.0	106.5	97.8	90.0	87.7
72.5°	98.1	92.2	85.2	78.1	76.3
75°	77.1	72.4	67.0	61.7	60.1
77.5°	58.6	54.0	50.1	46.3	45.9
80°	46.3	42.3	39.4	36.9	36.5
82.5°	34.6	31.6	29.6	27.8	27.8
85°	17.9	16.7	16.2	14.2	13.4
87.5°	5.2	5.2	4.5	3.9	3.9
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	18.57	20.15	18.94	20.46	20.78	17.47	19.05	17.84	19.37	19.68
	3H	20.27	21.69	20.64	22.02	22.38	19.05	20.47	19.43	20.80	21.16
	4H	20.93	22.26	21.33	22.61	22.99	19.65	20.99	20.05	21.34	21.72
	6H	21.36	22.60	21.77	22.97	23.36	20.06	21.30	20.47	21.66	22.05
	8H	21.53	22.71	21.96	23.10	23.50	20.22	21.40	20.64	21.79	22.19
	12H	21.63	22.76	22.06	23.14	23.57	20.30	21.44	20.73	21.82	22.25
4H	2H	19.06	20.40	19.46	20.75	21.12	18.19	19.53	18.59	19.87	20.25
	3H	20.99	22.11	21.40	22.51	22.91	19.98	21.10	20.39	21.50	21.90
	4H	21.77	22.77	22.20	23.19	23.63	20.68	21.69	21.12	22.11	22.54
	6H	22.32	23.20	22.78	23.64	24.10	21.20	22.08	21.65	22.52	22.98
	8H	22.54	23.37	23.01	23.81	24.28	21.40	22.22	21.86	22.67	23.13
	12H	22.68	23.42	23.17	23.90	24.37	21.52	22.26	22.00	22.74	23.21
8H	4H	21.98	22.80	22.44	23.24	23.71	21.01	21.83	21.47	22.28	22.74
	6H	22.65	23.33	23.14	23.82	24.29	21.64	22.33	22.14	22.81	23.29
	8H	22.94	23.55	23.45	24.06	24.55	21.92	22.54	22.44	23.04	23.53
	12H	23.15	23.69	23.66	24.18	24.74	22.11	22.65	22.61	23.14	23.70
12H	4H	21.99	22.73	22.47	23.20	23.67	21.05	21.79	21.53	22.26	22.73
	6H	22.68	23.29	23.19	23.80	24.29	21.71	22.32	22.22	22.83	23.32
	8H	23.03	23.57	23.54	24.06	24.62	22.05	22.59	22.56	23.08	23.64