

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: CORELITE

Report Number: P824336

Luminaire Tested: CB3-0U-XD-840-B10-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824336  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-3, G2-2312-242-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB3-0U-XD-840-B10-UNV-STD-W-4  
Description: CORELITE Bryx SLOT LED LUMINAIRE  
3-INCH APERTURE  
DOWNLIGHT UNDER 10W BATTERY POWER  
DIRECT ONLY  
Light Source: 80 CRI, 4000K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1223.2 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 0.24' x L: 4' x H: 0')  
CIE Type: Direct

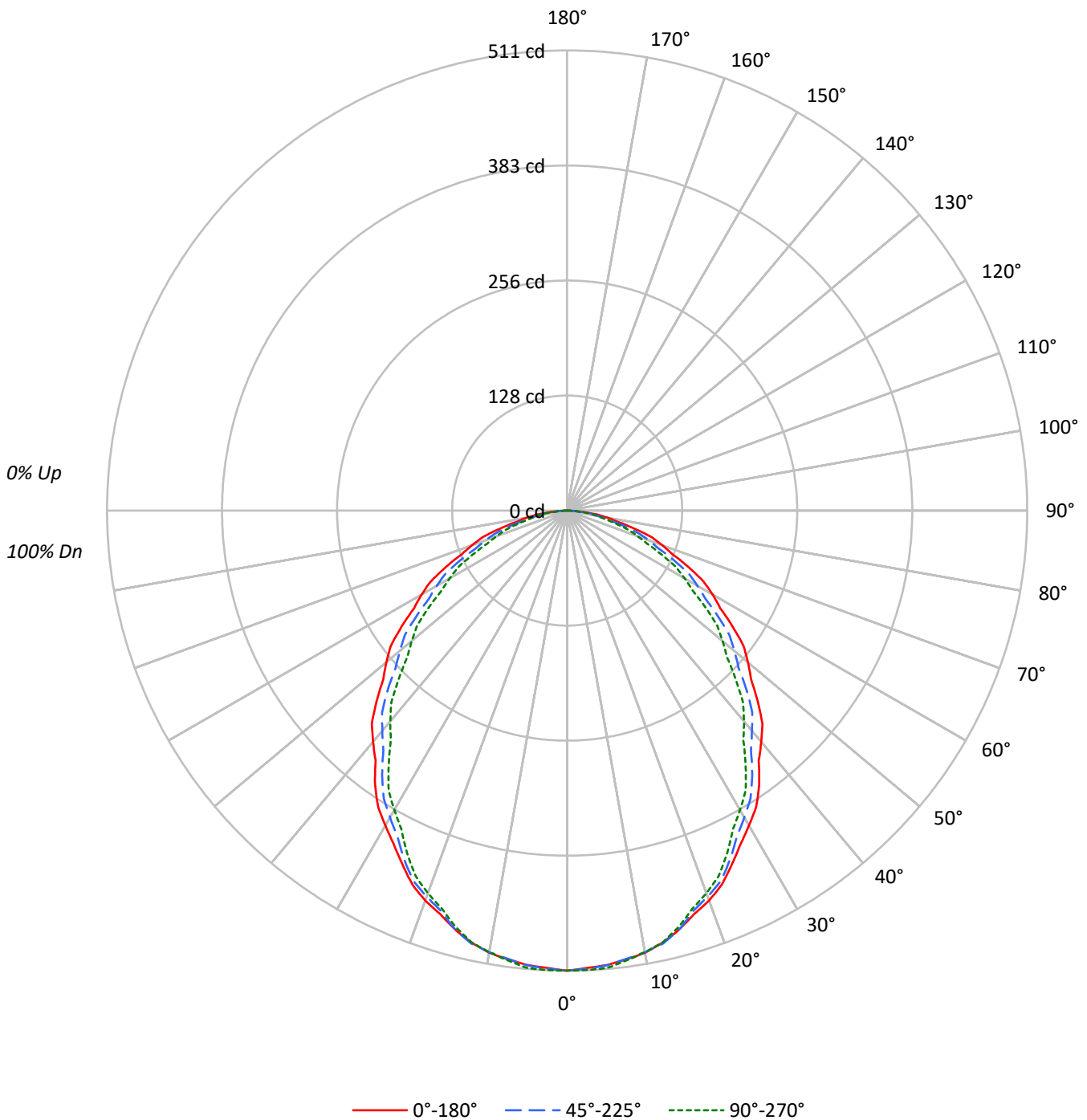
Input Watts (W): 10  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	109	105	101	97	107	103	99	96	98	95	93		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	72	64	58	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	78	65	56	50	75	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		54	48	43		53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39		50	43	38		48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31		42	36	31		41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29		39	33	29		38	33	28	27

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

	0°	45°	90°
0°	5781	5781	5781
5°	5754	5757	5791
10°	5728	5720	5720
15°	5640	5640	5606
20°	5550	5492	5445
25°	5409	5341	5246
30°	5277	5140	5016
35°	5138	4948	4772
40°	4952	4716	4512
45°	4784	4512	4232
50°	4612	4267	3961
55°	4425	4030	3701
60°	4220	3786	3408
65°	3984	3507	3100
70°	3708	3182	2762
75°	3362	2793	2457
80°	2932	2339	2176
85°	2259	1973	1973

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4784 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.2	3.9
10°-20°	135.4	11.1
20°-30°	196.8	16.1
30°-40°	223.7	18.3
40°-50°	217.2	17.8
50°-60°	183.4	15.0
60°-70°	130.5	10.7
70°-80°	69.7	5.7
80°-90°	18.4	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°	380.4	31.1
0°-40°	604.1	49.4
0°-60°	1004.7	82.1
0°-90°	1223.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1223.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	511	511	511	511	511	
5°	507	513	507	506	510	48
15°	482	486	482	479	479	136
25°	433	435	428	422	420	200
35°	372	368	358	348	346	232
45°	299	294	282	268	264	231
55°	224	218	204	191	188	201
65°	149	144	131	119	116	147
75°	77	73	64	57	56	82
85°	17	16	15	15	15	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	510.9	510.9	510.9	510.9	510.9
2.5°	508.3	513.4	508.9	509.5	510.7
5°	506.6	513.0	506.9	506.3	509.9
7.5°	502.7	508.5	502.2	500.8	504.0
10°	498.6	505.0	497.9	496.1	497.9
12.5°	491.3	498.0	492.4	489.4	490.9
15°	481.5	485.8	481.5	478.6	478.6
17.5°	469.6	474.0	466.0	464.0	463.2
20°	460.9	464.8	456.1	453.2	452.2
22.5°	449.3	452.9	445.7	440.7	439.4
25°	433.3	434.7	427.8	422.0	420.2
27.5°	417.2	417.6	408.2	401.1	398.7
30°	403.9	404.2	393.4	385.7	383.9
32.5°	390.5	389.5	379.1	370.0	368.8
35°	372.0	368.4	358.2	347.6	345.5
37.5°	349.5	347.4	335.3	324.7	321.5
40°	335.3	331.8	319.3	308.7	305.5
42.5°	321.1	317.0	304.2	292.5	289.0
45°	299.0	294.4	282.0	268.4	264.5
47.5°	276.8	271.8	258.1	245.0	240.7
50°	262.0	256.7	242.4	229.6	225.0
52.5°	246.9	241.3	227.0	213.9	210.2
55°	224.3	218.2	204.3	191.2	187.6
57.5°	201.6	195.7	181.8	169.4	165.1
60°	186.5	180.8	167.3	154.9	150.6
62.5°	171.1	165.7	152.5	140.3	136.4
65°	148.8	143.5	131.0	119.3	115.8
67.5°	126.6	122.1	109.8	99.1	96.2
70°	112.1	107.9	96.2	86.3	83.5
72.5°	98.2	93.7	82.5	74.1	72.1
75°	76.9	72.7	63.9	57.3	56.2
77.5°	57.5	54.0	46.4	42.7	42.1
80°	45.0	41.8	35.9	33.4	33.4
82.5°	33.4	30.8	26.9	25.8	25.8
85°	17.4	16.0	15.2	15.2	15.2
87.5°	5.2	5.2	4.9	4.6	4.6
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	17.09	18.68	17.46	18.99	19.30	16.02	17.60	16.38	17.91	18.23
	3H	18.81	20.23	19.19	20.56	20.92	17.48	18.90	17.86	19.23	19.59
	4H	19.47	20.81	19.87	21.16	21.54	18.03	19.37	18.43	19.71	20.09
	6H	19.89	21.13	20.30	21.50	21.89	18.38	19.62	18.79	19.98	20.38
	8H	20.05	21.23	20.47	21.62	22.02	18.52	19.70	18.95	20.09	20.49
	12H	20.14	21.27	20.57	21.65	22.08	18.62	19.75	19.05	20.13	20.56
4H	2H	17.58	18.92	17.98	19.27	19.65	16.72	18.06	17.12	18.41	18.79
	3H	19.53	20.65	19.94	21.05	21.45	18.40	19.52	18.81	19.92	20.32
	4H	20.31	21.32	20.74	21.73	22.17	19.04	20.05	19.47	20.46	20.90
	6H	20.85	21.73	21.31	22.17	22.63	19.49	20.37	19.94	20.81	21.27
	8H	21.06	21.88	21.52	22.32	22.79	19.67	20.50	20.14	20.94	21.41
	12H	21.19	21.93	21.67	22.40	22.87	19.81	20.55	20.29	21.03	21.50
8H	4H	20.49	21.32	20.95	21.76	22.22	19.35	20.18	19.82	20.62	21.08
	6H	21.14	21.82	21.64	22.31	22.79	19.91	20.59	20.41	21.08	21.56
	8H	21.42	22.03	21.93	22.54	23.03	20.17	20.78	20.68	21.29	21.77
	12H	21.62	22.16	22.13	22.65	23.21	20.38	20.92	20.88	21.41	21.97
12H	4H	20.50	21.24	20.98	21.71	22.18	19.39	20.13	19.87	20.60	21.07
	6H	21.16	21.77	21.67	22.28	22.77	19.97	20.58	20.48	21.09	21.58
	8H	21.49	22.03	22.00	22.53	23.09	20.29	20.83	20.79	21.32	21.88