

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: P824332

Luminaire Tested: CB3-0U-XD-830-B10-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824332  
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-830-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, 3000K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1136.4 lumens  
Efficiency: N/A  
Efficacy: 113.6 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

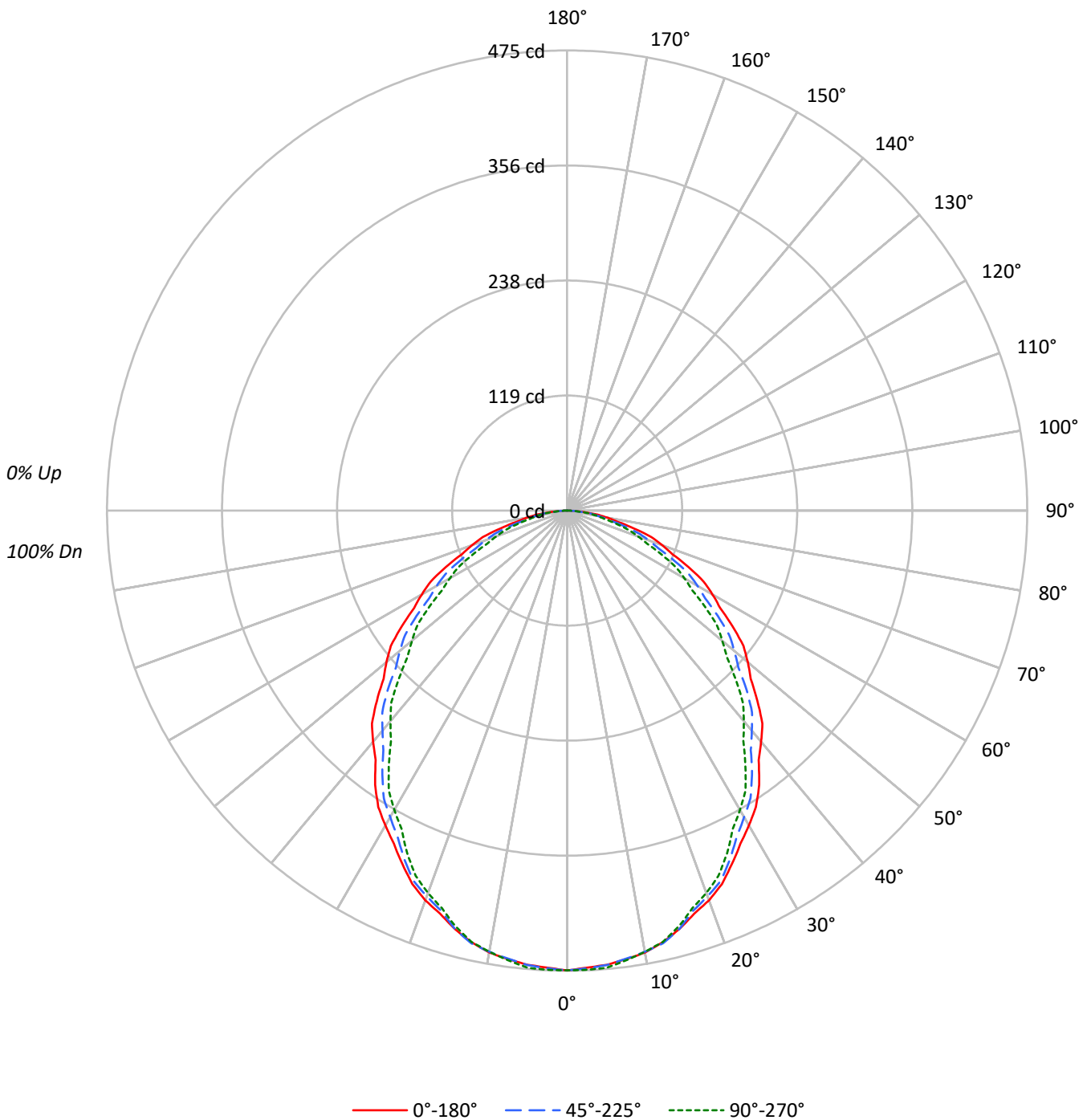
Input Watts (W): 10  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P824332

CATALOG NUMBER: CB3-OU-XD-830-B10-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P824332

CATALOG NUMBER: CB3-OU-XD-830-B10-UNV-STD-W-4

**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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72				72
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46				46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41				41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36				36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32				32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29				29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27				27

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

	0°	45°	90°
0°	5370	5370	5370
5°	5345	5348	5379
10°	5322	5314	5314
15°	5240	5240	5208
20°	5155	5102	5057
25°	5025	4961	4874
30°	4902	4774	4660
35°	4772	4595	4432
40°	4601	4381	4192
45°	4445	4191	3932
50°	4284	3964	3679
55°	4109	3744	3438
60°	3922	3517	3166
65°	3700	3258	2878
70°	3447	2954	2564
75°	3126	2592	2286
80°	2724	2176	2020
85°	2103	1843	1843

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4445 cd/sqm



TEST NUMBER: P824332

CATALOG NUMBER: CB3-OU-XD-830-B10-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.8	3.9
10°-20°	125.8	11.1
20°-30°	182.8	16.1
30°-40°	207.8	18.3
40°-50°	201.7	17.8
50°-60°	170.3	15.0
60°-70°	121.2	10.7
70°-80°	64.8	5.7
80°-90°	17.1	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°	353.4	31.1
0°-40°	561.2	49.4
0°-60°	933.3	82.1
0°-90°	1136.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1136.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	475	475	475	475	475	
5°	471	476	471	470	474	45
15°	447	451	447	445	445	126
25°	402	404	397	392	390	185
35°	346	342	333	323	321	215
45°	278	274	262	249	246	214
55°	208	203	190	178	174	186
65°	138	133	122	111	108	137
75°	72	68	59	53	52	76
85°	16	15	14	14	14	20
90°	0	0	0	0	0	

TEST NUMBER: P824332

CATALOG NUMBER: CB3-OU-XD-830-B10-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	474.6	474.6	474.6	474.6	474.6
2.5°	472.2	477.0	472.8	473.3	474.4
5°	470.6	476.5	470.9	470.3	473.6
7.5°	467.0	472.4	466.5	465.2	468.2
10°	463.2	469.1	462.5	460.9	462.5
12.5°	456.4	462.6	457.4	454.6	456.0
15°	447.3	451.3	447.3	444.6	444.6
17.5°	436.2	440.4	432.9	431.0	430.3
20°	428.1	431.7	423.7	421.0	420.0
22.5°	417.3	420.7	414.0	409.4	408.2
25°	402.5	403.8	397.4	392.0	390.4
27.5°	387.6	387.9	379.2	372.6	370.4
30°	375.2	375.5	365.4	358.3	356.7
32.5°	362.8	361.8	352.2	343.8	342.6
35°	345.5	342.2	332.7	322.9	320.9
37.5°	324.7	322.7	311.5	301.6	298.7
40°	311.5	308.2	296.6	286.8	283.8
42.5°	298.3	294.4	282.6	271.7	268.5
45°	277.8	273.5	261.9	249.4	245.7
47.5°	257.1	252.5	239.7	227.6	223.6
50°	243.4	238.4	225.2	213.3	209.0
52.5°	229.4	224.2	210.9	198.7	195.2
55°	208.3	202.7	189.8	177.6	174.3
57.5°	187.3	181.8	168.9	157.3	153.4
60°	173.3	168.0	155.4	143.9	139.9
62.5°	159.0	154.0	141.7	130.4	126.7
65°	138.2	133.3	121.7	110.8	107.5
67.5°	117.6	113.4	102.0	92.0	89.4
70°	104.2	100.2	89.3	80.2	77.5
72.5°	91.2	87.0	76.7	68.9	67.0
75°	71.5	67.5	59.3	53.2	52.3
77.5°	53.4	50.2	43.1	39.6	39.1
80°	41.8	38.8	33.4	31.0	31.0
82.5°	31.0	28.6	25.0	24.0	24.0
85°	16.2	14.9	14.2	14.2	14.2
87.5°	4.9	4.9	4.6	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P824332  
 CATALOG NUMBER: CB3-OU-XD-830-B10-UNV-STD-W-4

**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	16.84	18.42	17.20	18.73	19.05	15.76	17.34	16.12	17.65	17.97
	3H	18.55	19.98	18.93	20.31	20.67	17.22	18.65	17.60	18.97	19.33
	4H	19.22	20.55	19.61	20.90	21.28	17.77	19.11	18.17	19.46	19.83
	6H	19.64	20.87	20.05	21.24	21.63	18.12	19.36	18.53	19.73	20.12
	8H	19.79	20.97	20.22	21.36	21.76	18.26	19.45	18.69	19.84	20.24
	12H	19.88	21.01	20.31	21.40	21.82	18.36	19.49	18.79	19.88	20.31
4H	2H	17.33	18.67	17.73	19.01	19.39	16.47	17.81	16.87	18.15	18.53
	3H	19.28	20.39	19.69	20.79	21.19	18.15	19.26	18.56	19.66	20.06
	4H	20.05	21.06	20.49	21.48	21.91	18.78	19.79	19.21	20.20	20.64
	6H	20.59	21.47	21.05	21.91	22.37	19.23	20.11	19.69	20.55	21.01
	8H	20.80	21.62	21.26	22.07	22.53	19.42	20.24	19.88	20.68	21.15
	12H	20.93	21.67	21.41	22.15	22.62	19.56	20.29	20.04	20.77	21.24
8H	4H	20.24	21.06	20.70	21.50	21.97	19.10	19.92	19.56	20.36	20.83
	6H	20.88	21.57	21.38	22.05	22.53	19.65	20.33	20.15	20.82	21.30
	8H	21.17	21.78	21.68	22.28	22.77	19.91	20.52	20.42	21.03	21.52
	12H	21.36	21.90	21.87	22.39	22.96	20.12	20.66	20.63	21.15	21.71
12H	4H	20.24	20.98	20.72	21.46	21.93	19.13	19.87	19.61	20.35	20.82
	6H	20.90	21.52	21.42	22.03	22.51	19.71	20.33	20.23	20.84	21.32
	8H	21.24	21.78	21.75	22.27	22.83	20.03	20.57	20.54	21.06	21.62