

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: P824290

Luminaire Tested: CB3-D-055U-055D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824290  
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-D-055U-055D-835-1D-UNV-STD-W-4  
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER  
3-INCH APERTURE  
DOWNLIGHT 550 LUMENS PER FOOT  
UPLIGHT 550 LUMENS PER FOOT  
Light Source: 80 CRI, 3500K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4436.3 lumens  
Efficiency: N/A  
Efficacy: 136.5 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: General Diffuse

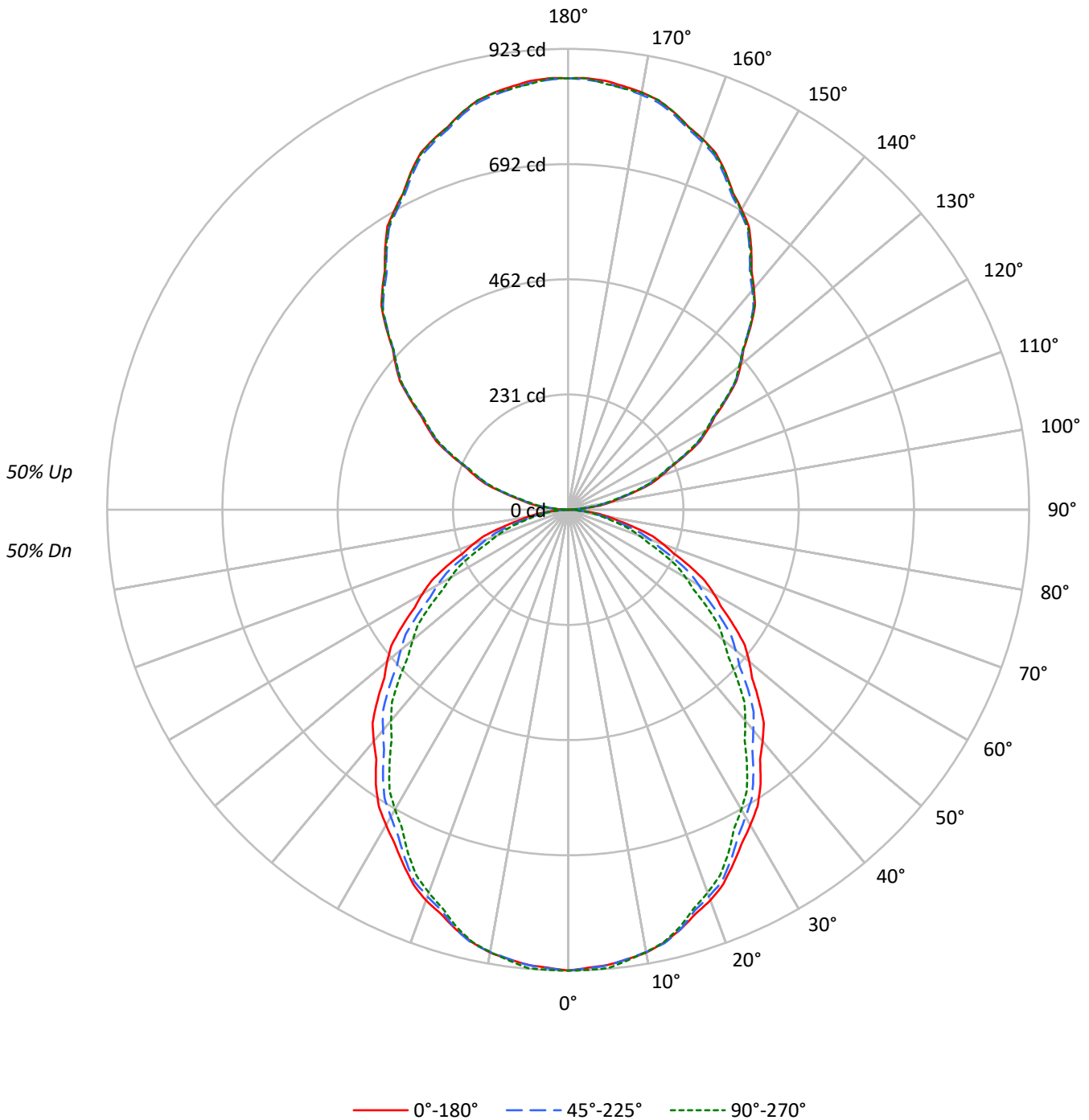
Input Watts (W): 32.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	90	86	90	87	83	80	73	71	69	61	59	58	50	49	48	42
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	30
4	75	64	56	50	69	59	53	47	51	45	41	43	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	32	29	26	23
6	63	51	43	37	58	48	41	35	41	35	31	35	30	27	29	26	23	20
7	59	46	38	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18
8	54	42	34	29	50	39	32	28	34	28	25	29	25	21	24	21	19	16
9	51	38	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15
10	47	35	28	23	44	33	27	22	29	23	20	25	20	18	21	18	15	13

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

	0°	45°	90°
0°	10444	10444	10444
5°	10395	10403	10470
10°	10349	10334	10334
15°	10191	10191	10130
20°	10026	9924	9829
25°	9765	9643	9472
30°	9527	9279	9055
35°	9275	8931	8615
40°	8942	8515	8147
45°	8637	8145	7642
50°	8326	7703	7150
55°	7987	7275	6681
60°	7619	6834	6153
65°	7191	6332	5595
70°	6696	5743	4985
75°	6072	5040	4437
80°	5291	4229	3929
85°	4076	3570	3570

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8637 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.1	2.0
10°-20°	244.7	5.5
20°-30°	355.3	8.0
30°-40°	403.9	9.1
40°-50°	392.1	8.8
50°-60°	331.0	7.5
60°-70°	235.5	5.3
70°-80°	125.8	2.8
80°-90°	33.2	0.7
90°-100°	36.5	0.8
100°-110°	142.9	3.2
110°-120°	254.7	5.7
120°-130°	344.6	7.8
130°-140°	396.2	8.9
140°-150°	397.6	9.0
150°-160°	341.9	7.7
160°-170°	231.5	5.2
170°-180°	81.6	1.8
0°-30°	687.1	15.5
0°-40°	1091.0	24.6
0°-60°	1814.1	40.9
0°-90°	2208.7	49.8
90°-120°	434.1	9.8
90°-150°	1572.6	35.4
90°-180°	2228.0	50.2
0°-180°	4436.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	915	927	916	915	922	87
15°	870	878	870	865	865	245
25°	782	785	772	762	759	361
35°	672	665	647	628	624	418
45°	540	532	509	485	478	416
55°	405	394	369	345	339	362
65°	269	259	236	215	209	266
75°	139	131	115	104	102	148
85°	31	29	28	28	28	37
90°	0	0	0	0	0	3
95°	35	32	28	26	27	40
105°	138	138	133	131	130	148
115°	260	261	255	254	254	257
125°	387	392	384	382	383	346
135°	516	521	512	508	514	397
145°	639	644	634	630	636	399
155°	746	752	740	736	744	343
165°	823	830	819	815	823	232
175°	862	870	858	853	856	82
180°	864	864	864	864	864	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	923.1	923.1	923.1	923.1	923.1
2.5°	918.4	927.6	919.4	920.5	922.6
5°	915.2	926.8	915.9	914.8	921.8
7.5°	908.2	918.7	907.4	904.8	910.5
10°	900.8	912.4	899.5	896.3	899.5
12.5°	887.7	899.8	889.6	884.3	886.9
15°	870.0	877.7	870.0	864.8	864.8
17.5°	848.4	856.5	842.0	838.3	836.8
20°	832.7	839.7	824.2	818.9	816.3
22.5°	811.7	818.3	805.3	795.8	793.3
25°	782.2	784.8	772.4	761.9	758.7
27.5°	753.3	753.9	736.9	724.1	719.9
30°	729.2	729.8	710.2	696.3	693.1
32.5°	705.1	703.1	684.5	668.1	665.9
35°	671.5	665.1	646.6	627.5	623.7
37.5°	631.0	627.2	605.4	586.2	580.5
40°	605.4	598.9	576.5	557.4	551.6
42.5°	579.7	572.2	549.3	528.0	521.8
45°	539.8	531.5	509.0	484.6	477.6
47.5°	499.7	490.6	465.9	442.3	434.5
50°	473.0	463.4	437.6	414.5	406.2
52.5°	445.8	435.6	409.9	386.3	379.5
55°	404.9	394.0	368.8	345.1	338.7
57.5°	364.0	353.2	328.2	305.8	298.1
60°	336.7	326.5	302.0	279.6	271.9
62.5°	309.0	299.2	275.3	253.4	246.2
65°	268.6	259.0	236.5	215.4	209.0
67.5°	228.6	220.4	198.2	178.9	173.7
70°	202.4	194.8	173.6	155.8	150.7
72.5°	177.3	169.1	149.0	133.8	130.2
75°	138.9	131.2	115.3	103.5	101.5
77.5°	103.8	97.5	83.7	77.0	76.0
80°	81.2	75.5	64.9	60.3	60.3
82.5°	60.3	55.5	48.6	46.6	46.6
85°	31.4	28.9	27.5	27.5	27.5
87.5°	9.4	9.4	8.9	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	9.5	8.5	5.3	4.2	4.2
95°	35.1	31.9	28.5	26.5	27.2
97.5°	64.8	61.7	57.5	55.5	56.1
100°	85.5	82.9	78.2	76.2	76.2
102.5°	105.6	104.1	99.4	97.4	97.9
105°	138.5	137.9	133.2	131.2	129.9
107.5°	174.8	173.7	168.5	168.3	167.1
110°	198.2	197.5	192.9	192.2	191.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	222.0	222.9	217.8	217.1	216.4
115°	259.8	261.1	255.1	254.5	253.8
117.5°	298.5	300.3	294.0	293.3	292.1
120°	323.4	327.3	319.4	318.8	318.1
122.5°	348.9	352.2	344.9	343.7	343.6
125°	387.0	391.6	383.7	382.4	383.1
127.5°	425.2	429.9	422.5	419.9	421.4
130°	450.6	455.8	448.0	445.4	447.3
132.5°	476.6	481.8	474.0	471.4	474.4
135°	515.6	520.8	512.3	508.4	513.6
137.5°	553.6	558.2	548.9	546.2	551.6
140°	578.6	583.1	573.3	570.1	576.6
142.5°	602.9	608.0	597.1	594.0	601.0
145°	638.9	644.0	633.6	630.4	636.2
147.5°	673.3	678.6	668.0	664.3	670.3
150°	694.5	700.4	689.2	686.1	692.5
152.5°	715.2	721.6	709.9	706.2	714.3
155°	745.6	752.0	739.6	736.5	744.2
157.5°	772.9	778.8	767.6	764.4	771.1
160°	789.3	795.8	784.0	780.9	788.6
162.5°	803.6	810.1	799.4	795.2	803.0
165°	823.1	830.2	819.1	814.7	823.1
167.5°	839.4	847.0	835.3	831.2	839.7
170°	848.9	856.1	844.3	839.2	847.6
172.5°	855.3	862.4	850.7	845.5	851.3
175°	862.2	870.0	858.2	853.0	856.2
177.5°	865.2	871.5	862.1	857.5	864.7
180°	864.2	864.2	864.2	864.2	864.2

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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	15.28	16.13	16.24	17.10	18.38	14.20	15.05	15.16	16.02	17.30
	3H	16.94	17.70	17.91	18.69	19.98	15.61	16.37	16.58	17.36	18.65
	4H	17.57	18.29	18.56	19.28	20.59	16.13	16.85	17.11	17.84	19.14
	6H	17.96	18.62	18.95	19.61	20.93	16.45	17.11	17.44	18.10	19.42
	8H	18.09	18.72	19.10	19.73	21.05	16.57	17.20	17.57	18.21	19.52
	12H	18.16	18.76	19.17	19.76	21.10	16.64	17.24	17.65	18.25	19.59
4H	2H	15.68	16.40	16.68	17.39	18.70	14.83	15.54	15.82	16.53	17.84
	3H	17.57	18.17	18.57	19.19	20.51	16.44	17.04	17.44	18.06	19.38
	4H	18.32	18.87	19.33	19.88	21.22	17.05	17.60	18.06	18.61	19.95
	6H	18.82	19.29	19.84	20.33	21.67	17.46	17.93	18.48	18.97	20.31
	8H	19.01	19.45	20.03	20.48	21.83	17.63	18.07	18.65	19.10	20.45
	12H	19.11	19.51	20.15	20.55	21.91	17.74	18.13	18.78	19.17	20.53
8H	4H	18.45	18.89	19.47	19.91	21.27	17.31	17.75	18.33	18.78	20.13
	6H	19.07	19.43	20.11	20.50	21.85	17.84	18.20	18.88	19.27	20.62
	8H	19.34	19.66	20.40	20.72	22.09	18.09	18.41	19.14	19.46	20.83
	12H	19.51	19.79	20.56	20.84	22.25	18.27	18.55	19.32	19.59	21.01
12H	4H	18.42	18.82	19.46	19.86	21.22	17.31	17.71	18.35	18.75	20.11
	6H	19.08	19.40	20.14	20.46	21.83	17.90	18.22	18.95	19.27	20.64
	8H	19.38	19.66	20.44	20.71	22.13	18.18	18.46	19.23	19.51	20.92