

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: P824176

Luminaire Tested: CB2-D-030U-030D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824176  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-13, G2-2312-242-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB2-D-030U-030D-835-1D-UNV-STD-W-4  
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER  
2-INCH APERTURE  
DOWNLIGHT 300 LUMENS PER FOOT  
UPLIGHT 300 LUMENS PER FOOT  
Light Source: 80 CRI, 3500K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2310.1 lumens  
Efficiency: N/A  
Efficacy: 129.1 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: General Diffuse

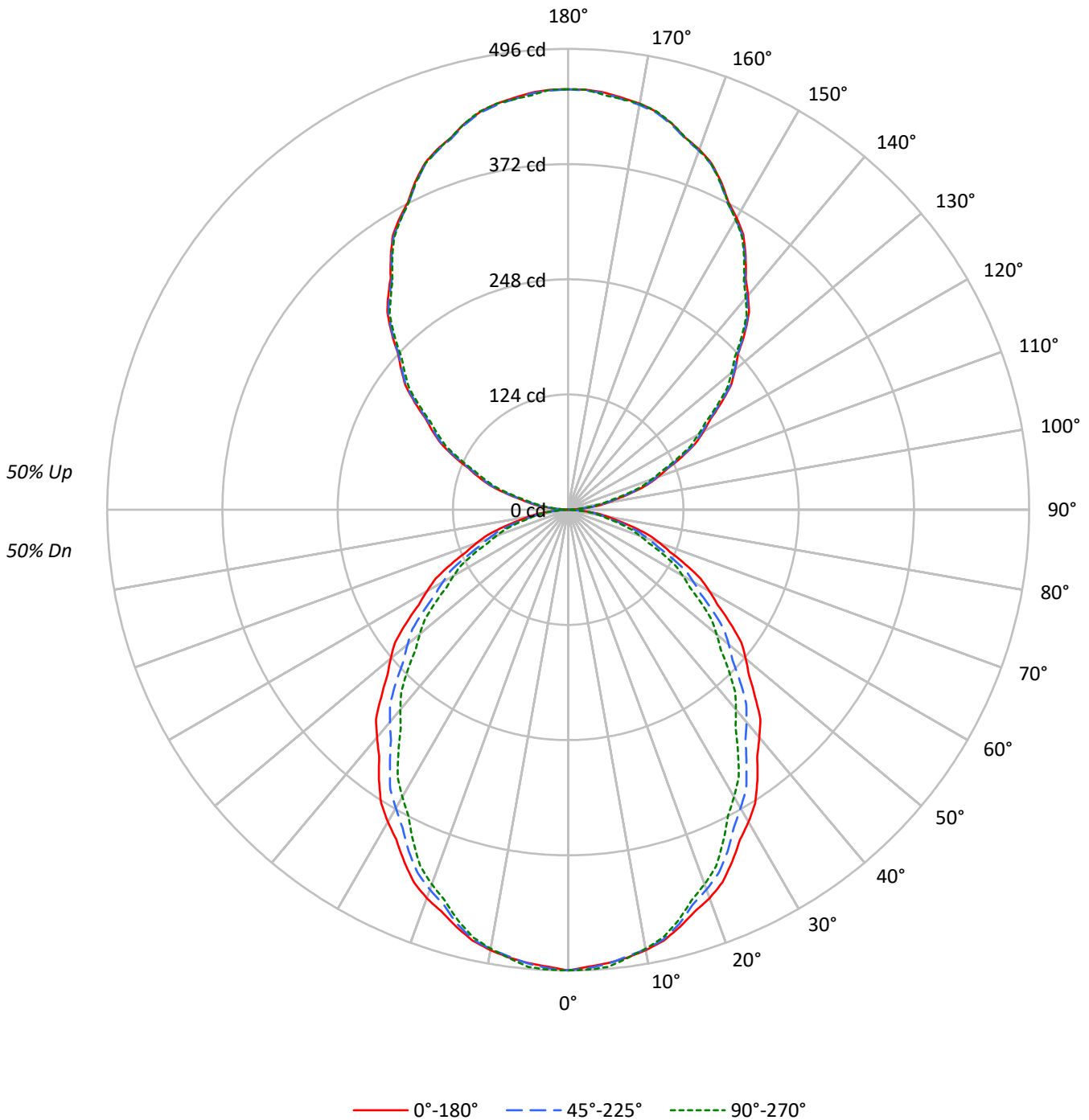
Input Watts (W): 17.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	60	58	50	49	48	43				
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	41	36				
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	31				
4	75	64	56	50	69	59	53	47	51	46	41	43	39	36	35	32	30	26				
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23				
6	63	51	43	38	58	48	41	35	41	36	31	35	31	27	29	26	23	20				
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18				
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16				
9	51	39	31	26	47	36	29	25	31	26	22	27	23	19	23	19	17	15				
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13				

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

	0°	45°	90°
0°	8636	8636	8636
5°	8562	8576	8635
10°	8514	8493	8486
15°	8379	8323	8255
20°	8246	8065	7952
25°	8025	7799	7580
30°	7803	7459	7176
35°	7546	7110	6772
40°	7276	6785	6387
45°	7003	6444	6013
50°	6758	6110	5647
55°	6456	5764	5302
60°	6110	5434	4960
65°	5741	5069	4616
70°	5337	4660	4176
75°	4852	4213	3782
80°	4343	3691	3430
85°	3337	3038	2498

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7003 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.6	2.0
10°-20°	130.0	5.6
20°-30°	186.9	8.1
30°-40°	210.0	9.1
40°-50°	202.9	8.8
50°-60°	171.4	7.4
60°-70°	123.1	5.3
70°-80°	67.3	2.9
80°-90°	17.9	0.8
90°-100°	17.5	0.8
100°-110°	72.1	3.1
110°-120°	130.9	5.7
120°-130°	178.1	7.7
130°-140°	205.6	8.9
140°-150°	207.2	9.0
150°-160°	178.8	7.7
160°-170°	121.2	5.2
170°-180°	42.7	1.9
0°-30°	363.5	15.7
0°-40°	573.5	24.8
0°-60°	947.8	41.0
0°-90°	1156.1	50.0
90°-120°	220.5	9.5
90°-150°	811.3	35.1
90°-180°	1154.0	50.0
0°-180°	2310.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	496	496	496	496	496	
5°	490	496	490	491	494	46
15°	465	469	462	457	458	131
25°	418	418	406	397	394	192
35°	355	351	334	322	318	222
45°	284	278	262	248	244	220
55°	213	205	190	178	175	190
65°	139	134	123	114	112	138
75°	72	68	63	58	56	77
85°	17	16	15	13	12	20
90°	0	0	0	0	0	1
95°	17	15	14	11	11	20
105°	71	70	68	65	64	76
115°	136	135	133	129	128	134
125°	202	204	199	195	196	180
135°	269	272	267	262	264	207
145°	333	337	331	328	330	208
155°	389	393	388	385	388	179
165°	430	435	429	427	431	121
175°	451	456	450	447	448	43
180°	452	452	452	452	452	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	495.8	495.8	495.8	495.8	495.8
2.5°	492.4	498.4	494.0	494.6	495.5
5°	489.7	496.4	490.5	490.6	493.9
7.5°	486.2	492.5	485.1	483.7	486.8
10°	481.4	487.7	480.2	477.6	479.8
12.5°	475.0	481.0	473.8	469.7	471.6
15°	464.7	468.7	461.6	457.1	457.8
17.5°	453.4	455.9	445.7	441.9	441.1
20°	444.9	447.1	435.1	429.7	429.0
22.5°	434.0	435.9	423.2	416.7	415.6
25°	417.6	418.0	405.8	396.7	394.4
27.5°	400.4	399.2	385.8	374.9	372.0
30°	388.0	386.5	370.9	359.4	356.8
32.5°	374.6	371.9	356.3	344.0	341.4
35°	354.9	350.9	334.4	321.5	318.5
37.5°	334.0	329.4	313.3	299.1	295.8
40°	320.0	314.8	298.4	284.3	280.9
42.5°	306.1	300.3	283.5	269.4	265.7
45°	284.3	278.4	261.6	247.8	244.1
47.5°	263.7	256.1	239.8	226.1	222.4
50°	249.4	241.2	225.5	212.1	208.4
52.5°	234.8	226.4	211.2	198.5	194.7
55°	212.6	204.8	189.8	178.0	174.6
57.5°	190.6	183.1	169.4	158.1	154.8
60°	175.4	169.1	156.0	145.3	142.4
62.5°	160.8	155.1	142.7	132.9	129.9
65°	139.3	134.1	123.0	114.2	112.0
67.5°	118.4	113.2	104.2	96.4	93.8
70°	104.8	99.6	91.5	84.2	82.0
72.5°	91.7	86.2	79.6	73.0	71.4
75°	72.1	67.7	62.6	57.7	56.2
77.5°	54.8	50.5	46.8	43.3	43.0
80°	43.3	39.6	36.8	34.5	34.2
82.5°	32.3	29.5	27.7	26.0	26.0
85°	16.7	15.6	15.2	13.3	12.5
87.5°	4.9	4.9	4.3	3.6	3.7
90°	0.0	0.0	0.4	0.0	0.4
92.5°	4.2	3.7	3.5	2.3	2.6
95°	16.9	14.9	14.1	10.9	10.9
97.5°	32.0	29.9	28.8	25.5	24.8
100°	42.7	40.6	39.5	36.0	35.3
102.5°	53.7	52.8	50.8	47.0	46.3
105°	71.3	70.3	68.5	64.6	63.9
107.5°	89.4	89.6	86.9	83.7	82.7
110°	102.4	102.0	99.9	96.7	96.0



TEST NUMBER: P824176

CATALOG NUMBER: CB2-D-030U-030D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	115.6	115.0	112.9	109.7	109.0
115°	135.5	135.2	132.7	128.8	128.5
117.5°	154.5	155.6	152.6	148.5	148.4
120°	168.0	169.4	165.9	162.3	161.7
122.5°	181.3	182.9	179.4	175.4	175.5
125°	201.5	203.6	199.4	195.2	195.5
127.5°	221.1	223.6	219.8	215.5	215.9
130°	234.4	237.5	233.3	228.7	229.4
132.5°	247.9	251.0	246.9	242.0	243.3
135°	268.6	271.7	267.2	262.3	264.0
137.5°	288.1	291.2	286.3	282.1	284.2
140°	301.1	304.2	299.0	295.1	297.2
142.5°	313.8	317.4	311.9	307.8	310.5
145°	332.8	336.6	331.4	327.6	330.0
147.5°	350.9	354.7	349.4	345.7	348.2
150°	362.5	366.3	360.7	357.6	360.4
152.5°	373.2	377.6	371.7	368.6	372.2
155°	389.3	393.1	387.6	385.2	388.3
157.5°	403.3	407.7	402.2	400.1	402.6
160°	412.6	416.8	411.2	409.1	411.9
162.5°	419.7	424.1	418.8	416.5	419.8
165°	430.3	434.7	429.2	426.8	430.6
167.5°	438.6	443.4	437.7	435.3	439.2
170°	443.7	448.2	442.3	439.5	443.7
172.5°	447.1	451.8	445.6	442.9	445.6
175°	450.7	455.6	449.7	446.9	447.9
177.5°	452.5	456.4	451.6	449.2	452.5
180°	452.5	452.5	452.5	452.5	452.5



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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	14.50	15.35	15.46	16.32	17.59	13.40	14.25	14.36	15.22	16.49
	3H	16.14	16.90	17.11	17.88	19.18	14.92	15.68	15.89	16.67	17.96
	4H	16.77	17.49	17.75	18.47	19.78	15.50	16.22	16.48	17.20	18.50
	6H	17.17	17.83	18.16	18.82	20.14	15.87	16.53	16.86	17.52	18.84
	8H	17.32	17.95	18.32	18.96	20.27	16.01	16.64	17.01	17.65	18.96
	12H	17.39	17.99	18.40	18.99	20.33	16.07	16.67	17.08	17.67	19.01
4H	2H	14.90	15.62	15.89	16.61	17.91	14.03	14.75	15.02	15.74	17.04
	3H	16.77	17.37	17.77	18.39	19.70	15.76	16.36	16.76	17.38	18.69
	4H	17.52	18.07	18.52	19.07	20.41	16.44	16.99	17.44	17.99	19.33
	6H	18.04	18.51	19.06	19.54	20.88	16.91	17.38	17.93	18.41	19.75
	8H	18.24	18.68	19.26	19.71	21.06	17.10	17.54	18.12	18.57	19.92
	12H	18.35	18.74	19.38	19.78	21.14	17.19	17.59	18.23	18.63	19.98
8H	4H	17.67	18.11	18.69	19.14	20.49	16.71	17.15	17.73	18.17	19.53
	6H	18.31	18.68	19.36	19.74	21.09	17.31	17.68	18.36	18.74	20.09
	8H	18.60	18.93	19.66	19.98	21.34	17.59	17.91	18.64	18.96	20.33
	12H	18.78	19.06	19.83	20.11	21.52	17.74	18.02	18.79	19.06	20.48
12H	4H	17.65	18.05	18.69	19.09	20.45	16.71	17.11	17.75	18.15	19.51
	6H	18.34	18.66	19.39	19.72	21.08	17.37	17.70	18.43	18.75	20.12
	8H	18.66	18.94	19.71	19.99	21.40	17.68	17.96	18.74	19.01	20.42