

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: P824179

Luminaire Tested: CB2-D-030U-055D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824179  
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-055D-835-1D-UNV-STD-W-4  
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER  
2-INCH APERTURE  
DOWNLIGHT 550 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: 3362.7 lumens  
Efficiency: N/A  
Efficacy: 125.5 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: Semi-Direct

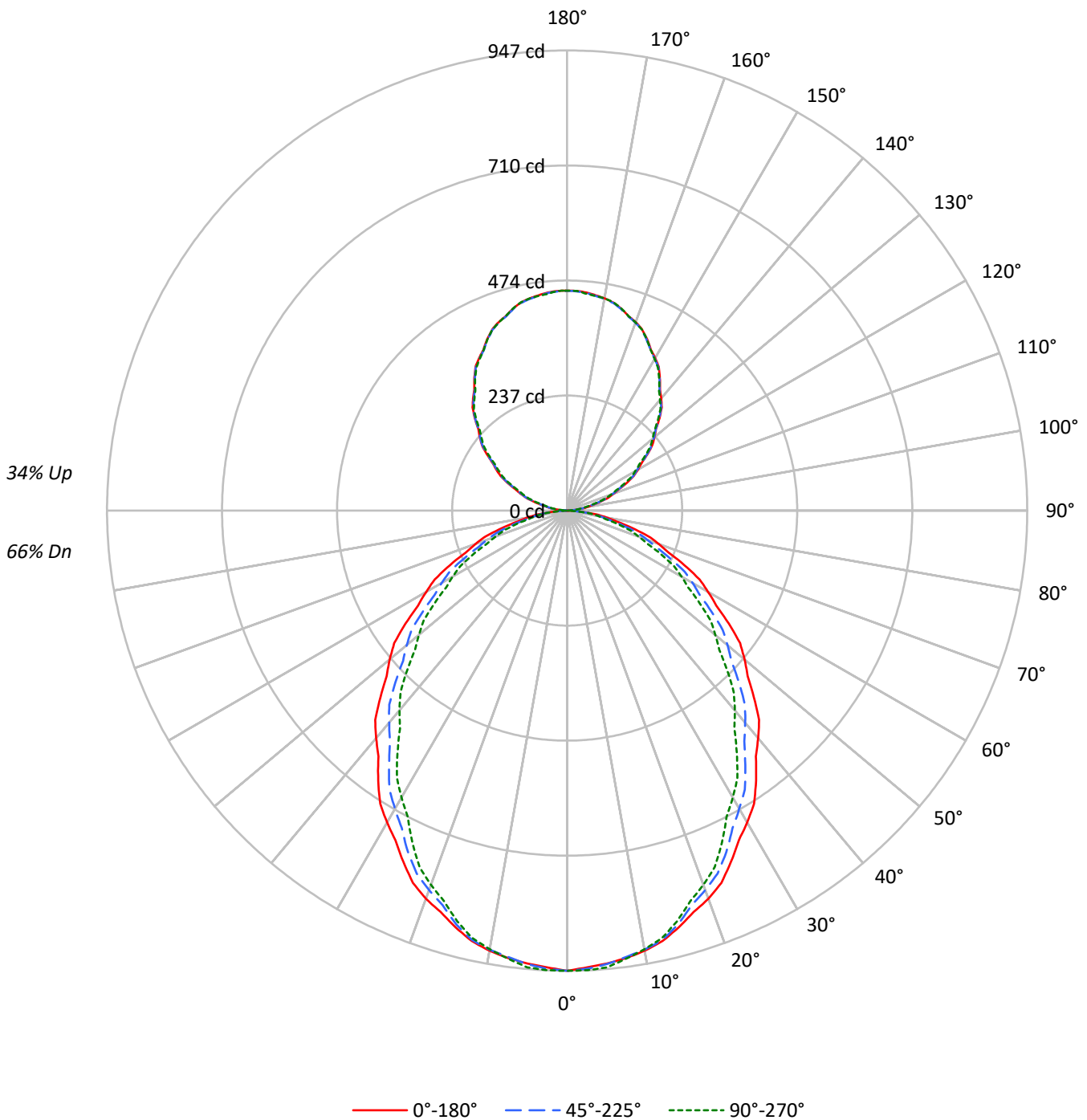
Input Watts (W): 26.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66								
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56								
2	93	85	79	74	87	80	75	70	71	67	64	63	60	57	55	53	51	47								
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44	40								
4	78	67	59	53	73	63	56	50	56	51	46	50	46	42	44	41	38	35								
5	71	60	51	45	67	57	49	44	51	45	40	45	40	37	40	36	33	30								
6	66	54	46	40	62	51	44	38	46	40	35	41	36	32	36	32	29	27								
7	61	49	41	35	57	46	39	34	42	36	31	37	32	29	33	29	26	24								
8	57	44	37	31	54	42	35	30	38	32	28	34	29	26	31	27	24	21								
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	28	24	21	19								
10	50	37	30	25	47	36	29	24	32	27	23	29	25	21	26	22	20	18								

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

	0°	45°	90°
0°	16496	16496	16496
5°	16356	16382	16496
10°	16264	16225	16213
15°	16007	15902	15771
20°	15755	15405	15190
25°	15330	14900	14481
30°	14907	14249	13710
35°	14418	13585	12938
40°	13901	12960	12203
45°	13380	12309	11486
50°	12912	11673	10787
55°	12332	11011	10130
60°	11673	10384	9475
65°	10971	9685	8815
70°	10195	8902	7975
75°	9273	8055	7221
80°	8295	7051	6550
85°	6375	5795	4776

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13380 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.1	2.6
10°-20°	248.3	7.4
20°-30°	357.0	10.6
30°-40°	401.2	11.9
40°-50°	387.6	11.5
50°-60°	327.5	9.7
60°-70°	235.2	7.0
70°-80°	128.6	3.8
80°-90°	34.2	1.0
90°-100°	17.5	0.5
100°-110°	72.1	2.1
110°-120°	130.9	3.9
120°-130°	178.1	5.3
130°-140°	205.6	6.1
140°-150°	207.2	6.2
150°-160°	178.8	5.3
160°-170°	121.2	3.6
170°-180°	42.7	1.3
0°-30°	694.3	20.6
0°-40°	1095.6	32.6
0°-60°	1810.7	53.8
0°-90°	2208.7	65.7
90°-120°	220.5	6.6
90°-150°	811.3	24.1
90°-180°	1154.0	34.3
0°-180°	3362.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	936	948	937	937	944	89
15°	888	896	882	873	875	250
25°	798	798	775	758	754	367
35°	678	670	639	614	608	424
45°	543	532	500	473	466	420
55°	406	391	363	340	334	363
65°	266	256	235	218	214	264
75°	138	129	120	110	107	147
85°	32	30	29	25	24	38
90°	0	0	0	0	0	2
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°	947.1	947.1	947.1	947.1	947.1
2.5°	940.8	952.1	943.7	944.9	946.6
5°	935.5	948.3	937.0	937.1	943.5
7.5°	928.9	940.9	926.7	924.1	930.0
10°	919.6	931.6	917.4	912.4	916.7
12.5°	907.4	918.9	905.2	897.3	901.0
15°	887.7	895.5	881.9	873.2	874.6
17.5°	866.2	871.0	851.4	844.1	842.7
20°	850.0	854.2	831.1	820.9	819.5
22.5°	829.1	832.8	808.5	796.0	794.0
25°	797.7	798.5	775.3	757.8	753.5
27.5°	765.0	762.7	737.0	716.2	710.7
30°	741.2	738.3	708.5	686.7	681.7
32.5°	715.6	710.5	680.7	657.1	652.1
35°	678.1	670.3	638.9	614.1	608.5
37.5°	638.1	629.3	598.5	571.5	565.1
40°	611.4	601.4	570.0	543.0	536.7
42.5°	584.7	573.6	541.6	514.6	507.7
45°	543.2	531.8	499.7	473.4	466.3
47.5°	503.7	489.3	458.1	431.9	424.8
50°	476.5	460.9	430.8	405.2	398.1
52.5°	448.6	432.5	403.5	379.1	372.0
55°	406.1	391.2	362.6	340.0	333.6
57.5°	364.1	349.7	323.6	302.0	295.7
60°	335.1	323.0	298.1	277.6	272.0
62.5°	307.2	296.3	272.5	253.8	248.2
65°	266.2	256.2	235.0	218.2	213.9
67.5°	226.3	216.3	199.1	184.1	179.3
70°	200.2	190.2	174.8	160.9	156.6
72.5°	175.2	164.7	152.2	139.5	136.3
75°	137.8	129.3	119.7	110.2	107.3
77.5°	104.7	96.5	89.5	82.8	82.1
80°	82.7	75.6	70.3	66.0	65.3
82.5°	61.8	56.4	52.9	49.7	49.6
85°	31.9	29.8	29.0	25.4	23.9
87.5°	9.3	9.3	8.2	7.0	7.0
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



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**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	18.08	19.08	18.89	19.92	20.95	16.98	17.99	17.79	18.82	19.85
	3H	19.73	20.64	20.56	21.48	22.54	18.52	19.42	19.34	20.26	21.32
	4H	20.37	21.22	21.21	22.07	23.14	19.10	19.95	19.94	20.80	21.87
	6H	20.78	21.57	21.63	22.42	23.50	19.48	20.26	20.33	21.12	22.20
	8H	20.93	21.68	21.80	22.56	23.64	19.62	20.37	20.48	21.24	22.33
	12H	21.01	21.72	21.88	22.59	23.70	19.69	20.40	20.56	21.27	22.38
4H	2H	18.51	19.36	19.35	20.21	21.28	17.63	18.48	18.48	19.33	20.40
	3H	20.39	21.10	21.25	21.98	23.06	19.38	20.09	20.24	20.97	22.06
	4H	21.14	21.79	22.01	22.67	23.78	20.06	20.71	20.93	21.59	22.70
	6H	21.67	22.23	22.55	23.13	24.24	20.54	21.10	21.43	22.00	23.12
	8H	21.88	22.40	22.76	23.30	24.42	20.74	21.26	21.62	22.16	23.28
	12H	21.99	22.46	22.90	23.38	24.51	20.83	21.30	21.74	22.22	23.35
8H	4H	21.31	21.83	22.20	22.73	23.85	20.34	20.87	21.23	21.76	22.89
	6H	21.95	22.39	22.87	23.33	24.45	20.95	21.39	21.87	22.33	23.45
	8H	22.25	22.63	23.17	23.56	24.71	21.23	21.61	22.16	22.55	23.69
	12H	22.43	22.76	23.36	23.69	24.88	21.39	21.72	22.32	22.65	23.84
12H	4H	21.29	21.76	22.20	22.68	23.81	20.35	20.82	21.26	21.74	22.87
	6H	21.98	22.37	22.91	23.30	24.44	21.02	21.40	21.94	22.33	23.48
	8H	22.31	22.65	23.24	23.57	24.77	21.33	21.67	22.26	22.59	23.79