

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: P824307

Luminaire Tested: CB3-D-085U-085D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824307  
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-085U-085D-830-1D-UNV-STD-W-4  
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER  
3-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 80 CRI, 3000K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6171.0 lumens  
Efficiency: N/A  
Efficacy: 124.7 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

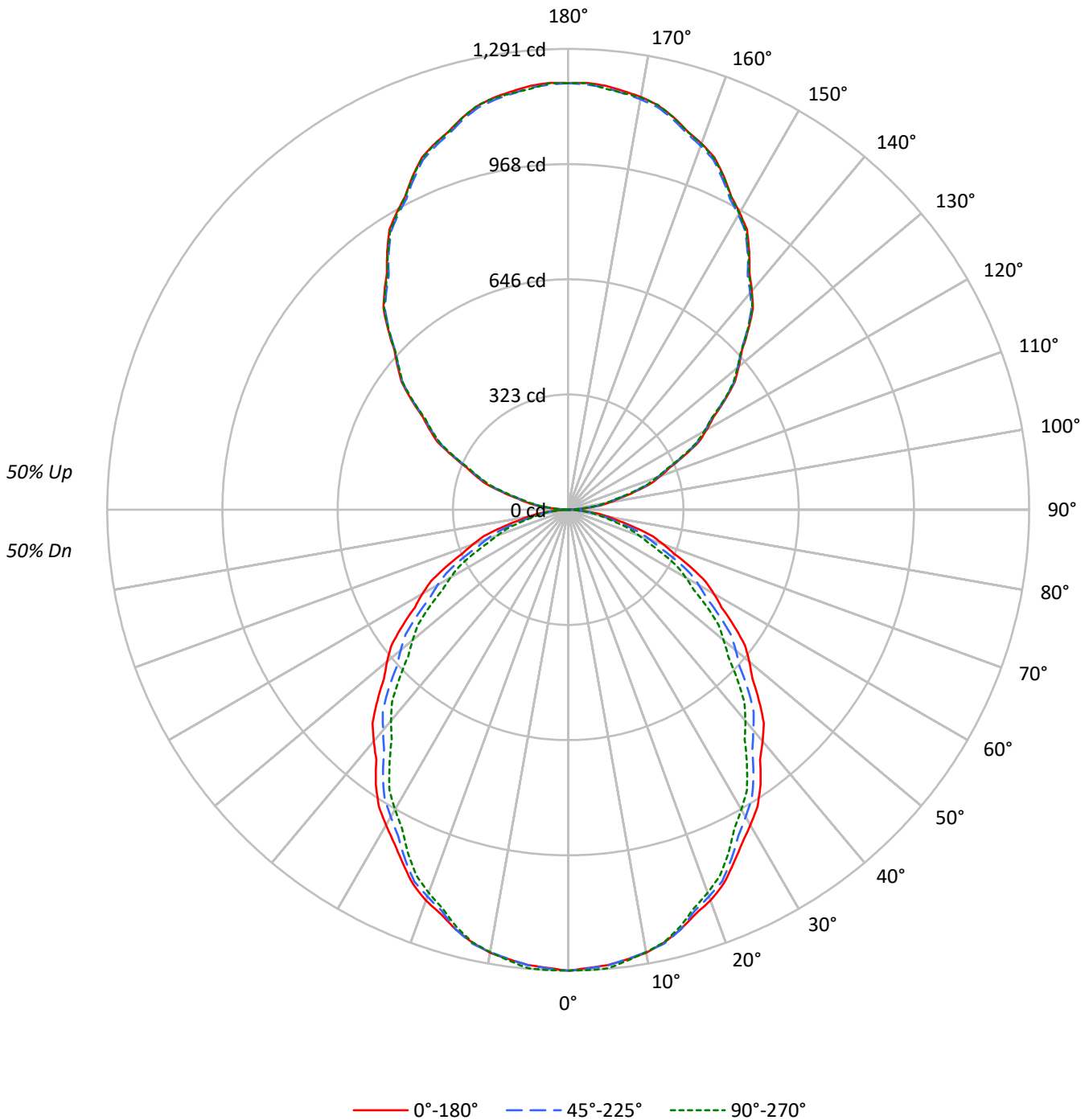
Input Watts (W): 49.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	65	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	35	31	35	30	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	34	29	50	39	32	28	34	29	25	29	25	22	24	21	19	16
9	51	39	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	24	20	25	21	18	21	18	15	13

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

	0°	45°	90°
0°	14612	14612	14612
5°	14543	14554	14647
10°	14480	14458	14458
15°	14258	14258	14172
20°	14027	13883	13750
25°	13663	13490	13251
30°	13328	12981	12669
35°	12977	12496	12053
40°	12509	11914	11400
45°	12086	11396	10692
50°	11649	10778	10003
55°	11173	10179	9348
60°	10661	9561	8608
65°	10061	8859	7828
70°	9369	8036	6974
75°	8494	7051	6212
80°	7408	5910	5493
85°	5712	4998	4998

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12086 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.9	2.0
10°-20°	342.3	5.5
20°-30°	497.1	8.1
30°-40°	565.1	9.2
40°-50°	548.6	8.9
50°-60°	463.1	7.5
60°-70°	329.5	5.3
70°-80°	176.1	2.9
80°-90°	46.5	0.8
90°-100°	50.5	0.8
100°-110°	197.6	3.2
110°-120°	352.2	5.7
120°-130°	476.7	7.7
130°-140°	548.0	8.9
140°-150°	549.9	8.9
150°-160°	472.9	7.7
160°-170°	320.1	5.2
170°-180°	112.9	1.8
0°-30°	961.3	15.6
0°-40°	1526.4	24.7
0°-60°	2538.1	41.1
0°-90°	3090.1	50.1
90°-120°	600.4	9.7
90°-150°	2174.9	35.2
90°-180°	3081.0	49.9
0°-180°	6171.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1291	1291	1291	1291	1291	
5°	1280	1297	1281	1280	1290	122
15°	1217	1228	1217	1210	1210	343
25°	1094	1098	1081	1066	1061	504
35°	940	930	905	878	873	585
45°	755	744	712	678	668	583
55°	566	551	516	483	474	506
65°	376	362	331	301	292	372
75°	194	184	161	145	142	207
85°	44	40	38	38	38	52
90°	0	0	0	0	0	4
95°	49	44	39	37	38	55
105°	192	191	184	181	180	204
115°	359	361	353	352	351	356
125°	535	542	531	529	530	479
135°	713	720	708	703	710	550
145°	884	891	876	872	880	552
155°	1031	1040	1023	1019	1029	474
165°	1138	1148	1133	1127	1138	321
175°	1192	1203	1187	1180	1184	113
180°	1195	1195	1195	1195	1195	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1291.4	1291.4	1291.4	1291.4	1291.4
2.5°	1284.8	1297.8	1286.3	1287.8	1290.7
5°	1280.4	1296.6	1281.4	1279.8	1289.6
7.5°	1270.5	1285.2	1269.4	1265.8	1273.8
10°	1260.3	1276.4	1258.4	1254.0	1258.4
12.5°	1242.0	1258.8	1244.5	1237.1	1240.9
15°	1217.2	1228.0	1217.2	1209.9	1209.9
17.5°	1187.0	1198.2	1178.0	1172.8	1170.6
20°	1165.0	1174.8	1153.0	1145.6	1142.0
22.5°	1135.6	1144.8	1126.6	1113.4	1109.8
25°	1094.4	1098.0	1080.6	1065.9	1061.4
27.5°	1053.9	1054.8	1031.0	1013.0	1007.1
30°	1020.1	1021.0	993.6	974.2	969.7
32.5°	986.4	983.7	957.6	934.6	931.6
35°	939.5	930.5	904.7	878.0	872.6
37.5°	882.8	877.5	846.9	820.1	812.1
40°	846.9	837.9	806.6	779.8	771.8
42.5°	811.0	800.6	768.5	738.7	730.0
45°	755.3	743.6	712.2	678.0	668.2
47.5°	699.2	686.4	651.9	618.8	607.9
50°	661.8	648.3	612.3	579.9	568.3
52.5°	623.6	609.5	573.4	540.4	530.9
55°	566.4	551.2	516.0	482.8	473.9
57.5°	509.2	494.2	459.2	427.8	417.0
60°	471.1	456.8	422.5	391.1	380.4
62.5°	432.3	418.6	385.1	354.5	344.4
65°	375.8	362.4	330.9	301.3	292.4
67.5°	319.9	308.4	277.4	250.2	243.1
70°	283.2	272.5	242.9	218.0	210.8
72.5°	248.0	236.6	208.4	187.2	182.2
75°	194.3	183.6	161.3	144.8	142.1
77.5°	145.2	136.4	117.1	107.8	106.3
80°	113.7	105.6	90.7	84.3	84.3
82.5°	84.3	77.7	68.0	65.3	65.3
85°	44.0	40.4	38.5	38.5	38.5
87.5°	13.2	13.2	12.5	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.2	11.8	7.3	5.9	5.9
95°	48.6	44.1	39.4	36.7	37.6
97.5°	89.6	85.3	79.6	76.8	77.5
100°	118.2	114.7	108.2	105.4	105.4
102.5°	146.1	144.0	137.5	134.8	135.5
105°	191.6	190.7	184.2	181.4	179.6
107.5°	241.8	240.2	233.0	232.8	231.2
110°	274.1	273.2	266.7	265.8	264.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	307.1	308.3	301.2	300.2	299.4
115°	359.3	361.1	352.9	351.9	351.0
117.5°	412.8	415.3	406.6	405.6	404.0
120°	447.3	452.7	441.8	440.8	440.0
122.5°	482.5	487.1	477.0	475.3	475.1
125°	535.3	541.5	530.7	528.9	529.8
127.5°	588.1	594.5	584.4	580.8	582.8
130°	623.3	630.4	619.6	616.0	618.7
132.5°	659.2	666.4	655.5	652.0	656.1
135°	713.1	720.3	708.5	703.2	710.3
137.5°	765.7	772.0	759.1	755.4	763.0
140°	800.2	806.4	792.8	788.5	797.4
142.5°	833.9	840.9	825.8	821.5	831.1
145°	883.6	890.7	876.2	871.8	879.9
147.5°	931.2	938.6	923.9	918.8	927.0
150°	960.6	968.6	953.2	948.9	957.8
152.5°	989.2	997.9	981.8	976.8	987.9
155°	1031.1	1040.1	1022.9	1018.6	1029.3
157.5°	1068.9	1077.1	1061.6	1057.2	1066.5
160°	1091.6	1100.6	1084.3	1080.0	1090.7
162.5°	1111.4	1120.4	1105.6	1099.8	1110.5
165°	1138.4	1148.2	1132.9	1126.7	1138.4
167.5°	1160.9	1171.5	1155.2	1149.6	1161.3
170°	1174.1	1184.0	1167.7	1160.6	1172.3
172.5°	1182.9	1192.8	1176.5	1169.4	1177.4
175°	1192.5	1203.2	1187.0	1179.7	1184.2
177.5°	1196.7	1205.3	1192.3	1185.9	1195.9
180°	1195.2	1195.2	1195.2	1195.2	1195.2

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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	16.47	17.32	17.43	18.29	19.57	15.39	16.24	16.35	17.22	18.49
	3H	18.14	18.90	19.11	19.88	21.17	16.81	17.57	17.78	18.55	19.84
	4H	18.77	19.49	19.75	20.47	21.78	17.32	18.04	18.31	19.03	20.33
	6H	19.15	19.82	20.15	20.81	22.12	17.64	18.30	18.63	19.29	20.61
	8H	19.29	19.92	20.29	20.93	22.24	17.76	18.39	18.76	19.40	20.71
	12H	19.36	19.96	20.36	20.96	22.29	17.84	18.44	18.84	19.44	20.78
4H	2H	16.88	17.60	17.87	18.58	19.89	16.02	16.74	17.01	17.73	19.03
	3H	18.77	19.37	19.77	20.38	21.70	17.64	18.24	18.64	19.25	20.57
	4H	19.52	20.06	20.52	21.07	22.41	18.24	18.79	19.25	19.80	21.14
	6H	20.02	20.49	21.04	21.52	22.86	18.66	19.13	19.67	20.16	21.50
	8H	20.21	20.65	21.23	21.67	23.02	18.83	19.27	19.84	20.29	21.64
	12H	20.30	20.70	21.34	21.74	23.10	18.93	19.33	19.97	20.37	21.72
8H	4H	19.64	20.08	20.66	21.11	22.46	18.50	18.95	19.52	19.97	21.32
	6H	20.26	20.63	21.31	21.69	23.04	19.03	19.40	20.08	20.46	21.81
	8H	20.54	20.86	21.59	21.91	23.28	19.28	19.61	20.34	20.66	22.02
	12H	20.70	20.98	21.76	22.03	23.44	19.46	19.74	20.52	20.79	22.20
12H	4H	19.62	20.01	20.65	21.05	22.41	18.51	18.90	19.54	19.94	21.30
	6H	20.28	20.60	21.33	21.65	23.02	19.09	19.41	20.14	20.46	21.83
	8H	20.58	20.86	21.63	21.91	23.32	19.37	19.65	20.43	20.70	22.11