

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: P824306

Luminaire Tested: CB3-D-085U-055D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824306  
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-055D-840-1D-UNV-STD-W-4  
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER  
3-INCH APERTURE  
DOWNLIGHT 550 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 80 CRI, 4000K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5495.9 lumens  
Efficiency: N/A  
Efficacy: 136.0 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: Semi-Indirect

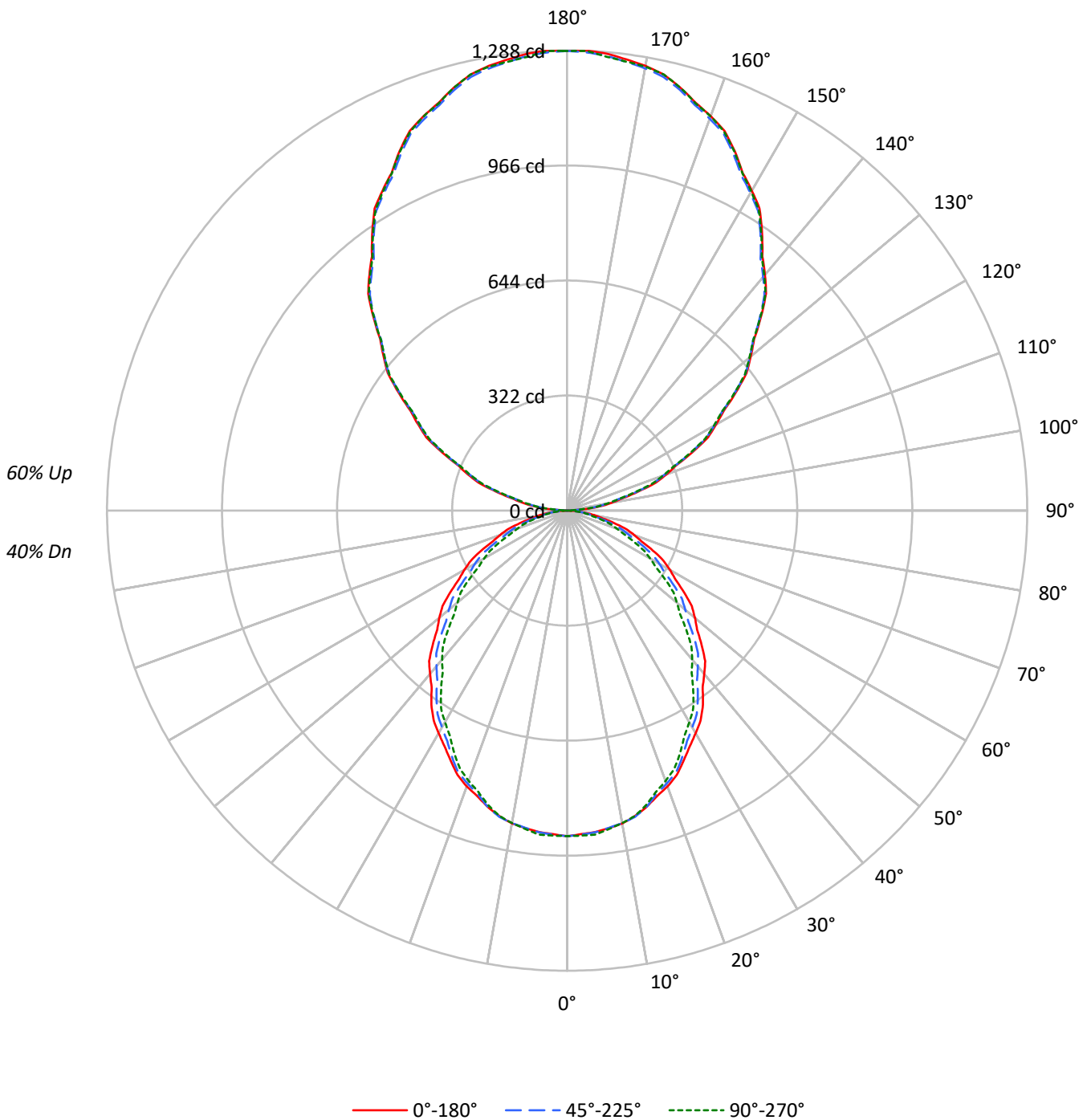
Input Watts (W): 40.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P824306

CATALOG NUMBER: CB3-D-085U-055D-840-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P824306

CATALOG NUMBER: CB3-D-085U-055D-840-1D-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	0
RCR																		
0	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	37	35	34	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	33	30	29	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	26	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11

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

	0°	45°	90°
0°	10309	10309	10309
5°	10261	10267	10338
10°	10216	10201	10201
15°	10060	10060	9999
20°	9896	9795	9698
25°	9635	9514	9344
30°	9400	9155	8935
35°	9152	8812	8500
40°	8822	8401	8039
45°	8522	8037	7540
50°	8215	7601	7055
55°	7881	7178	6593
60°	7520	6743	6071
65°	7095	6249	5521
70°	6606	5667	4919
75°	5989	4975	4380
80°	5226	4170	3877
85°	4024	3518	3518

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8522 cd/sqm



TEST NUMBER: P824306

CATALOG NUMBER: CB3-D-085U-055D-840-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	1.6
10°-20°	241.5	4.4
20°-30°	350.6	6.4
30°-40°	398.5	7.3
40°-50°	386.9	7.0
50°-60°	326.6	5.9
60°-70°	232.4	4.2
70°-80°	124.2	2.3
80°-90°	32.8	0.6
90°-100°	54.4	1.0
100°-110°	212.7	3.9
110°-120°	379.2	6.9
120°-130°	513.1	9.3
130°-140°	589.9	10.7
140°-150°	591.9	10.8
150°-160°	509.1	9.3
160°-170°	344.6	6.3
170°-180°	121.5	2.2
0°-30°	678.1	12.3
0°-40°	1076.7	19.6
0°-60°	1790.1	32.6
0°-90°	2179.5	39.7
90°-120°	646.3	11.8
90°-150°	2341.3	42.6
90°-180°	3316.0	60.3
0°-180°	5495.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	911	911	911	911	911	
5°	903	915	904	903	910	86
15°	859	866	859	854	854	242
25°	772	774	762	752	748	356
35°	663	656	638	619	615	413
45°	533	524	502	478	471	411
55°	400	389	364	340	334	357
65°	265	256	233	212	206	262
75°	137	130	114	102	100	146
85°	31	28	27	27	27	37
90°	0	0	0	0	0	3
95°	52	48	42	40	40	60
105°	206	205	198	195	193	220
115°	387	389	380	379	378	383
125°	576	583	571	569	570	515
135°	768	775	763	757	765	592
145°	951	959	943	938	947	594
155°	1110	1120	1101	1096	1108	511
165°	1225	1236	1220	1213	1225	345
175°	1284	1295	1278	1270	1275	122
180°	1287	1287	1287	1287	1287	

TEST NUMBER: P824306

CATALOG NUMBER: CB3-D-085U-055D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	911.1	911.1	911.1	911.1	911.1
2.5°	906.5	915.6	907.5	908.6	910.6
5°	903.4	914.8	904.0	902.9	910.2
7.5°	896.4	906.8	895.6	893.0	898.7
10°	889.2	900.5	887.9	884.7	887.9
12.5°	876.2	888.1	878.0	872.8	875.5
15°	858.8	866.4	858.8	853.6	853.6
17.5°	837.4	845.4	831.1	827.5	825.9
20°	821.9	828.9	813.5	808.3	805.4
22.5°	801.2	807.7	794.9	785.3	782.7
25°	771.8	774.3	762.1	751.7	748.5
27.5°	743.2	743.9	727.1	714.4	710.3
30°	719.5	720.1	700.7	687.1	683.9
32.5°	695.7	693.8	675.4	659.2	657.0
35°	662.6	656.3	638.0	619.2	615.4
37.5°	622.6	618.8	597.3	578.4	572.7
40°	597.3	591.0	568.8	550.0	544.3
42.5°	571.9	564.6	542.0	521.0	514.8
45°	532.6	524.4	502.3	478.2	471.2
47.5°	493.1	484.1	459.7	436.4	428.7
50°	466.7	457.2	431.8	409.0	400.8
52.5°	439.8	429.8	404.4	381.1	374.4
55°	399.5	388.7	363.9	340.5	334.2
57.5°	359.1	348.5	323.9	301.7	294.1
60°	332.3	322.1	298.0	275.8	268.3
62.5°	304.8	295.2	271.6	250.0	242.9
65°	265.0	255.5	233.4	212.5	206.2
67.5°	225.6	217.5	195.6	176.5	171.4
70°	199.7	192.2	171.3	153.7	148.7
72.5°	174.9	166.8	147.0	132.0	128.5
75°	137.0	129.5	113.8	102.1	100.2
77.5°	102.4	96.2	82.6	76.0	75.0
80°	80.2	74.5	64.0	59.5	59.5
82.5°	59.5	54.8	48.0	46.0	46.0
85°	31.0	28.5	27.1	27.1	27.1
87.5°	9.3	9.3	8.8	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.2	12.7	7.9	6.3	6.3
95°	52.3	47.5	42.4	39.5	40.5
97.5°	96.5	91.9	85.6	82.7	83.5
100°	127.3	123.4	116.4	113.5	113.5
102.5°	157.3	155.0	148.0	145.1	145.8
105°	206.2	205.2	198.3	195.3	193.4
107.5°	260.3	258.5	250.8	250.6	248.8
110°	295.0	294.0	287.1	286.1	285.1



TEST NUMBER: P824306

CATALOG NUMBER: CB3-D-085U-055D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	330.5	331.9	324.2	323.2	322.2
115°	386.8	388.7	379.9	378.9	377.9
117.5°	444.4	447.1	437.7	436.7	434.9
120°	481.5	487.3	475.6	474.6	473.6
122.5°	519.4	524.4	513.5	511.7	511.5
125°	576.2	583.0	571.3	569.3	570.3
127.5°	633.0	640.0	629.1	625.2	627.3
130°	670.9	678.7	667.0	663.1	666.0
132.5°	709.6	717.3	705.7	701.8	706.3
135°	767.6	775.3	762.7	757.0	764.7
137.5°	824.3	831.0	817.2	813.2	821.3
140°	861.4	868.1	853.5	848.8	858.4
142.5°	897.7	905.2	889.0	884.3	894.7
145°	951.1	958.9	943.3	938.5	947.2
147.5°	1002.5	1010.4	994.6	989.0	997.9
150°	1034.0	1042.7	1026.1	1021.4	1031.1
152.5°	1064.8	1074.3	1056.9	1051.5	1063.4
155°	1110.0	1119.6	1101.1	1096.5	1108.0
157.5°	1150.7	1159.5	1142.8	1138.1	1148.1
160°	1175.1	1184.8	1167.2	1162.6	1174.1
162.5°	1196.4	1206.1	1190.1	1183.9	1195.4
165°	1225.4	1236.1	1219.5	1212.9	1225.4
167.5°	1249.7	1261.1	1243.6	1237.6	1250.1
170°	1263.9	1274.5	1257.0	1249.4	1261.9
172.5°	1273.4	1284.0	1266.5	1258.8	1267.5
175°	1283.7	1295.2	1277.7	1270.0	1274.8
177.5°	1288.2	1297.5	1283.5	1276.6	1287.4
180°	1286.6	1286.6	1286.6	1286.6	1286.6



TEST NUMBER: P824306  
 CATALOG NUMBER: CB3-D-085U-055D-840-1D-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	14.21	14.98	15.25	16.02	17.44	13.13	13.90	14.17	14.95	16.36
	3H	15.87	16.56	16.92	17.61	19.04	14.54	15.22	15.59	16.28	17.71
	4H	16.49	17.15	17.56	18.20	19.64	15.05	15.70	16.11	16.76	18.20
	6H	16.88	17.47	17.95	18.54	19.99	15.36	15.96	16.44	17.02	18.48
	8H	17.01	17.58	18.09	18.66	20.10	15.48	16.05	16.56	17.13	18.58
	12H	17.07	17.62	18.16	18.69	20.16	15.56	16.10	16.64	17.17	18.64
4H	2H	14.61	15.26	15.68	16.31	17.75	13.75	14.40	14.82	15.46	16.89
	3H	16.49	17.03	17.57	18.11	19.57	15.36	15.90	16.44	16.99	18.44
	4H	17.23	17.73	18.32	18.81	20.28	15.96	16.46	17.04	17.53	19.01
	6H	17.73	18.16	18.82	19.26	20.72	16.37	16.79	17.46	17.89	19.36
	8H	17.92	18.32	19.01	19.41	20.89	16.54	16.93	17.63	18.03	19.51
	12H	18.01	18.37	19.12	19.48	20.96	16.64	17.00	17.75	18.10	19.59
8H	4H	17.35	17.75	18.45	18.84	20.33	16.21	16.61	17.31	17.70	19.19
	6H	17.97	18.30	19.08	19.43	20.91	16.74	17.07	17.85	18.20	19.68
	8H	18.24	18.53	19.37	19.65	21.15	16.99	17.28	18.11	18.39	19.89
	12H	18.40	18.66	19.53	19.77	21.31	17.16	17.42	18.29	18.53	20.06
12H	4H	17.32	17.68	18.43	18.79	20.27	16.21	16.57	17.32	17.68	19.16
	6H	17.99	18.27	19.11	19.39	20.89	16.80	17.08	17.92	18.20	19.70
	8H	18.28	18.53	19.41	19.65	21.18	17.07	17.33	18.20	18.44	19.97