

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: P824292

Luminaire Tested: CB3-D-055U-085D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824292
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-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 550 LUMENS PER FOOT
Light Source: 80 CRI, 3000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5131.7 lumens
Efficiency: N/A
Efficacy: 123.4 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-Direct

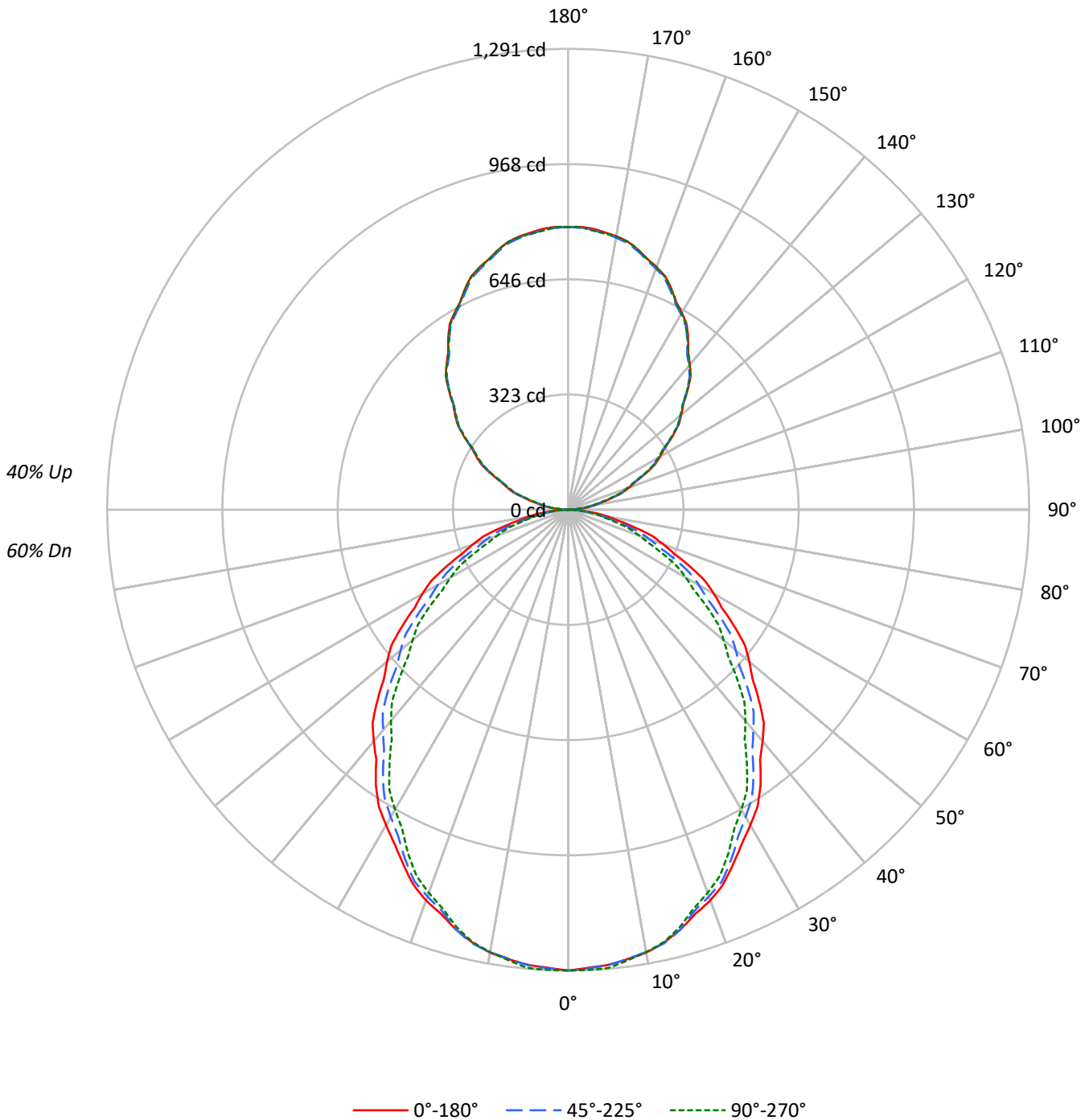
Input Watts (W): 41.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P824292

CATALOG NUMBER: CB3-D-055U-085D-830-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P824292

CATALOG NUMBER: CB3-D-055U-085D-830-1D-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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	60
1	100	96	92	89	94	90	87	83	78	76	74	68	66	64	58	57	56	51
2	92	84	78	73	85	79	73	69	69	65	61	60	57	54	52	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	41	37
4	77	66	58	52	71	62	55	49	54	49	44	48	43	40	41	38	35	32
5	70	59	51	45	66	55	48	43	49	43	38	43	38	35	37	34	31	28
6	65	53	45	39	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	22
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	23	20	18
10	49	37	29	25	46	35	28	24	31	26	22	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14608	14608	14608
5°	14539	14550	14640
10°	14476	14454	14454
15°	14254	14254	14169
20°	14023	13879	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



TEST NUMBER: P824292

CATALOG NUMBER: CB3-D-055U-085D-830-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	2.4
10°-20°	342.3	6.7
20°-30°	497.1	9.7
30°-40°	565.1	11.0
40°-50°	548.6	10.7
50°-60°	463.1	9.0
60°-70°	329.5	6.4
70°-80°	176.1	3.4
80°-90°	46.5	0.9
90°-100°	33.5	0.7
100°-110°	131.0	2.6
110°-120°	233.4	4.5
120°-130°	315.9	6.2
130°-140°	363.2	7.1
140°-150°	364.4	7.1
150°-160°	313.4	6.1
160°-170°	212.1	4.1
170°-180°	74.8	1.5
0°-30°	961.2	18.7
0°-40°	1526.2	29.7
0°-60°	2537.9	49.5
0°-90°	3090.0	60.2
90°-120°	397.9	7.8
90°-150°	1441.4	28.1
90°-180°	2042.0	39.8
0°-180°	5131.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1291	1291	1291	1291	1291	
5°	1280	1296	1281	1279	1289	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	3
95°	32	29	26	24	25	37
105°	127	126	122	120	119	136
115°	238	239	234	233	233	236
125°	355	359	352	350	351	317
135°	473	477	470	466	471	364
145°	586	590	581	578	583	366
155°	683	689	678	675	682	314
165°	754	761	751	747	754	213
175°	790	797	787	782	785	75
180°	792	792	792	792	792	



TEST NUMBER: P824292

CATALOG NUMBER: CB3-D-055U-085D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1291.1	1291.1	1291.1	1291.1	1291.1
2.5°	1284.5	1297.4	1286.0	1287.5	1290.4
5°	1280.1	1296.3	1281.1	1279.4	1289.0
7.5°	1270.2	1284.9	1269.1	1265.5	1273.5
10°	1260.0	1276.1	1258.1	1253.7	1258.1
12.5°	1241.6	1258.5	1244.2	1236.8	1240.5
15°	1216.9	1227.6	1216.9	1209.6	1209.6
17.5°	1186.6	1197.9	1177.7	1172.5	1170.4
20°	1164.6	1174.5	1152.7	1145.3	1142.0
22.5°	1135.3	1144.5	1126.3	1113.3	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°	8.7	7.8	4.9	3.9	3.9
95°	32.2	29.2	26.1	24.3	24.9
97.5°	59.4	56.6	52.7	50.9	51.4
100°	78.4	76.0	71.7	69.9	69.9
102.5°	96.8	95.4	91.1	89.3	89.8
105°	127.0	126.4	122.1	120.2	119.1
107.5°	160.2	159.2	154.4	154.3	153.2
110°	181.6	181.0	176.8	176.1	175.5



TEST NUMBER: P824292

CATALOG NUMBER: CB3-D-055U-085D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	203.5	204.3	199.6	199.0	198.4
115°	238.1	239.3	233.9	233.2	232.6
117.5°	273.6	275.2	269.5	268.8	267.8
120°	296.4	300.0	292.8	292.2	291.6
122.5°	319.8	322.8	316.1	315.0	314.9
125°	354.7	358.9	351.7	350.5	351.1
127.5°	389.7	394.0	387.3	384.9	386.2
130°	413.1	417.8	410.6	408.2	410.0
132.5°	436.9	441.6	434.4	432.1	434.8
135°	472.6	477.3	469.5	466.0	470.8
137.5°	507.4	511.6	503.1	500.6	505.6
140°	530.3	534.4	525.4	522.5	528.5
142.5°	552.6	557.3	547.3	544.4	550.8
145°	585.6	590.3	580.7	577.8	583.1
147.5°	617.1	622.0	612.3	608.9	614.4
150°	636.6	641.9	631.7	628.8	634.8
152.5°	655.5	661.4	650.7	647.3	654.7
155°	683.4	689.3	677.9	675.0	682.1
157.5°	708.4	713.8	703.5	700.6	706.8
160°	723.4	729.4	718.6	715.7	722.8
162.5°	736.6	742.5	732.7	728.8	736.0
165°	754.4	761.0	750.8	746.7	754.4
167.5°	769.4	776.4	765.6	761.9	769.6
170°	778.1	784.6	773.9	769.2	776.9
172.5°	783.9	790.5	779.7	775.0	780.3
175°	790.3	797.4	786.6	781.8	784.8
177.5°	793.1	798.8	790.1	785.9	792.6
180°	792.1	792.1	792.1	792.1	792.1



TEST NUMBER: P824292
 CATALOG NUMBER: CB3-D-055U-085D-830-1D-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	17.36	18.31	18.23	19.19	20.31	16.28	17.23	17.15	18.11	19.23
	3H	19.03	19.88	19.91	20.78	21.92	17.70	18.55	18.58	19.45	20.59
	4H	19.67	20.47	20.56	21.37	22.53	18.22	19.02	19.12	19.93	21.08
	6H	20.06	20.80	20.96	21.70	22.87	18.54	19.28	19.45	20.19	21.36
	8H	20.20	20.90	21.11	21.83	22.99	18.67	19.37	19.58	20.30	21.47
	12H	20.27	20.94	21.19	21.86	23.05	18.75	19.42	19.67	20.34	21.53
4H	2H	17.78	18.58	18.68	19.48	20.64	16.92	17.72	17.82	18.62	19.78
	3H	19.68	20.34	20.59	21.28	22.45	18.55	19.21	19.46	20.15	21.32
	4H	20.43	21.04	21.35	21.97	23.16	19.16	19.77	20.08	20.69	21.89
	6H	20.94	21.46	21.87	22.41	23.61	19.57	20.10	20.51	21.05	22.25
	8H	21.13	21.62	22.07	22.57	23.78	19.75	20.24	20.68	21.18	22.39
	12H	21.23	21.67	22.19	22.64	23.85	19.86	20.30	20.81	21.26	22.48
8H	4H	20.56	21.05	21.50	22.00	23.21	19.42	19.92	20.36	20.86	22.07
	6H	21.19	21.59	22.15	22.58	23.79	19.96	20.36	20.92	21.35	22.56
	8H	21.46	21.82	22.44	22.80	24.03	20.21	20.57	21.18	21.55	22.77
	12H	21.63	21.95	22.61	22.92	24.19	20.39	20.71	21.37	21.68	22.95
12H	4H	20.54	20.98	21.50	21.95	23.16	19.43	19.87	20.39	20.84	22.05
	6H	21.20	21.56	22.18	22.54	23.77	20.01	20.37	20.99	21.35	22.58
	8H	21.51	21.82	22.48	22.79	24.07	20.30	20.62	21.28	21.59	22.86