

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: P824310

Luminaire Tested: CB3-D-085U-120D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824310  
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-120D-830-1D-UNV-STD-W-4  
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER  
3-INCH APERTURE  
DOWNLIGHT 1200 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: 7479.6 lumens  
Efficiency: N/A  
Efficacy: 120.6 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

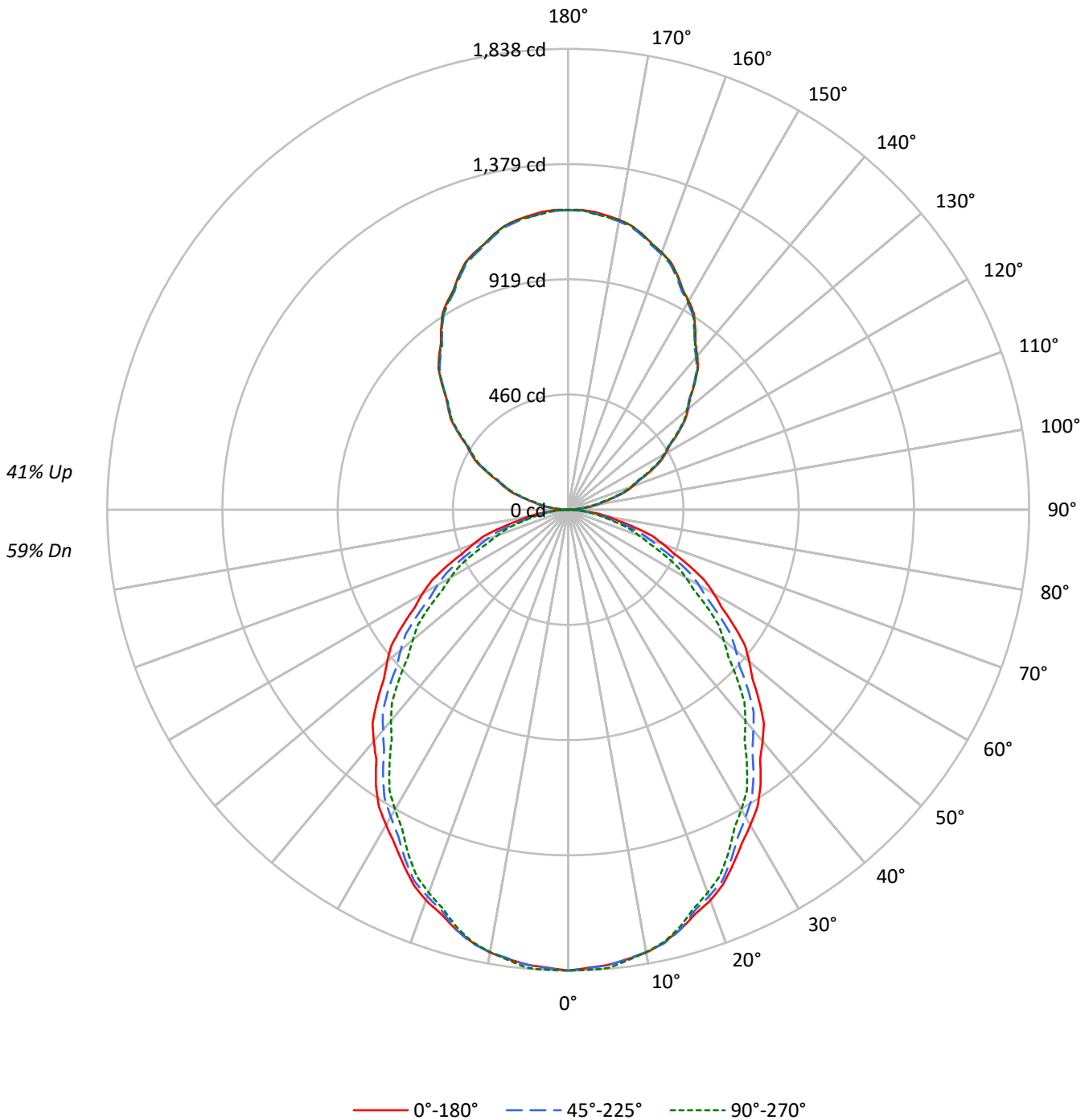
Input Watts (W): 62  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50
2	91	84	78	73	85	78	73	69	68	64	61	59	56	53	51	48	46	42
3	83	74	67	61	78	69	63	58	61	55	51	52	49	45	45	42	40	36
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31
5	70	59	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27
6	65	53	45	39	60	50	42	37	44	38	33	38	34	30	33	29	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	30	27	24	21
8	56	43	36	30	52	41	34	29	36	31	26	32	27	24	28	24	21	19
9	52	40	32	27	49	38	31	26	33	28	24	29	25	21	26	22	19	17
10	49	36	29	24	45	35	28	23	31	25	21	27	23	20	24	20	18	16

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

	0°	45°	90°
0°	20797	20797	20797
5°	20698	20713	20843
10°	20608	20578	20578
15°	20293	20293	20170
20°	19964	19759	19576
25°	19449	19205	18862
30°	18973	18479	18036
35°	18473	17788	17158
40°	17807	16959	16226
45°	17203	16222	15220
50°	16583	15342	14240
55°	15907	14491	13307
60°	15177	13611	12254
65°	14323	12610	11143
70°	13339	11440	9928
75°	12092	10037	8839
80°	10543	8418	7819
85°	8127	7114	7114

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17203 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.4	2.3
10°-20°	487.2	6.5
20°-30°	707.6	9.5
30°-40°	804.4	10.8
40°-50°	780.9	10.4
50°-60°	659.3	8.8
60°-70°	469.1	6.3
70°-80°	250.6	3.4
80°-90°	66.2	0.9
90°-100°	50.5	0.7
100°-110°	197.6	2.6
110°-120°	352.2	4.7
120°-130°	476.7	6.4
130°-140°	548.0	7.3
140°-150°	549.9	7.4
150°-160°	472.9	6.3
160°-170°	320.1	4.3
170°-180°	112.9	1.5
0°-30°	1368.3	18.3
0°-40°	2172.7	29.0
0°-60°	3612.9	48.3
0°-90°	4398.8	58.8
90°-120°	600.4	8.0
90°-150°	2174.9	29.1
90°-180°	3081.0	41.2
0°-180°	7479.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1822	1845	1824	1821	1835	173
15°	1732	1748	1732	1722	1722	488
25°	1558	1563	1538	1517	1511	718
35°	1337	1325	1288	1250	1242	833
45°	1075	1059	1014	965	951	829
55°	806	785	735	687	675	721
65°	535	516	471	429	416	530
75°	277	261	230	206	202	295
85°	63	58	55	55	55	74
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°	1838.1	1838.1	1838.1	1838.1	1838.1
2.5°	1828.7	1847.0	1830.7	1832.9	1837.0
5°	1822.4	1845.4	1823.7	1821.4	1835.1
7.5°	1808.3	1829.2	1806.7	1801.5	1813.0
10°	1793.7	1816.7	1791.1	1784.7	1791.1
12.5°	1767.6	1791.6	1771.2	1760.7	1766.0
15°	1732.4	1747.7	1732.4	1721.9	1721.9
17.5°	1689.3	1705.4	1676.5	1669.1	1666.2
20°	1658.0	1672.0	1641.0	1630.5	1625.8
22.5°	1616.2	1629.3	1603.5	1584.9	1579.8
25°	1557.9	1563.0	1538.3	1517.3	1510.9
27.5°	1500.2	1501.5	1467.6	1442.1	1433.7
30°	1452.2	1453.5	1414.4	1386.8	1380.5
32.5°	1404.2	1400.4	1363.2	1330.5	1326.2
35°	1337.4	1324.6	1287.8	1249.8	1242.2
37.5°	1256.8	1249.1	1205.6	1167.5	1156.0
40°	1205.6	1192.9	1148.2	1110.1	1098.6
42.5°	1154.5	1139.7	1093.9	1051.6	1039.1
45°	1075.1	1058.6	1013.8	965.2	951.2
47.5°	995.3	977.2	928.0	880.9	865.3
50°	942.1	922.9	871.6	825.6	809.0
52.5°	887.8	867.6	816.3	769.3	755.7
55°	806.4	784.7	734.6	687.3	674.6
57.5°	724.9	703.5	653.7	609.0	593.7
60°	670.7	650.2	601.5	556.8	541.5
62.5°	615.3	595.9	548.3	504.6	490.3
65°	535.0	515.8	471.0	429.0	416.2
67.5°	455.4	439.0	394.8	356.2	346.0
70°	403.2	387.9	345.8	310.3	300.1
72.5°	353.1	336.7	296.7	266.5	259.4
75°	276.6	261.3	229.6	206.1	202.2
77.5°	206.7	194.2	166.8	153.4	151.4
80°	161.8	150.3	129.2	120.0	120.0
82.5°	120.0	110.6	96.8	92.9	92.9
85°	62.6	57.5	54.8	54.8	54.8
87.5°	18.8	18.8	17.7	16.7	16.7
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	18.47	19.40	19.35	20.30	21.44	17.39	18.32	18.27	19.22	20.36
	3H	20.14	20.98	21.03	21.89	23.05	18.81	19.65	19.70	20.55	21.72
	4H	20.77	21.57	21.68	22.48	23.66	19.33	20.12	20.24	21.03	22.21
	6H	21.16	21.89	22.08	22.81	24.00	19.65	20.38	20.57	21.30	22.49
	8H	21.30	22.00	22.23	22.93	24.12	19.78	20.47	20.70	21.41	22.60
	12H	21.37	22.03	22.31	22.96	24.18	19.85	20.51	20.79	21.45	22.66
4H	2H	18.89	19.68	19.80	20.59	21.77	18.03	18.82	18.94	19.73	20.91
	3H	20.78	21.44	21.71	22.39	23.58	19.65	20.31	20.58	21.26	22.45
	4H	21.53	22.13	22.47	23.07	24.29	20.26	20.86	21.20	21.80	23.02
	6H	22.04	22.56	22.99	23.52	24.74	20.68	21.20	21.63	22.16	23.38
	8H	22.23	22.72	23.18	23.67	24.90	20.85	21.33	21.80	22.29	23.52
	12H	22.33	22.77	23.30	23.74	24.98	20.96	21.39	21.93	22.37	23.61
8H	4H	21.67	22.15	22.62	23.11	24.34	20.53	21.01	21.48	21.97	23.20
	6H	22.29	22.69	23.27	23.69	24.92	21.06	21.46	22.04	22.46	23.69
	8H	22.57	22.92	23.55	23.91	25.16	21.31	21.67	22.30	22.66	23.90
	12H	22.73	23.04	23.72	24.03	25.32	21.49	21.80	22.48	22.79	24.08
12H	4H	21.65	22.08	22.61	23.06	24.29	20.53	20.97	21.50	21.95	23.18
	6H	22.31	22.66	23.29	23.65	24.90	21.12	21.47	22.10	22.46	23.71
	8H	22.61	22.92	23.60	23.90	25.20	21.40	21.71	22.39	22.70	23.99