

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: P824296

Luminaire Tested: CB3-D-055U-120D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824296  
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-120D-835-1D-UNV-STD-W-4  
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER  
3-INCH APERTURE  
DOWNLIGHT 1200 LUMENS PER FOOT  
UPLIGHT 550 LUMENS PER FOOT  
Light Source: 80 CRI, 3500K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7026.6 lumens  
Efficiency: N/A  
Efficacy: 129.9 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

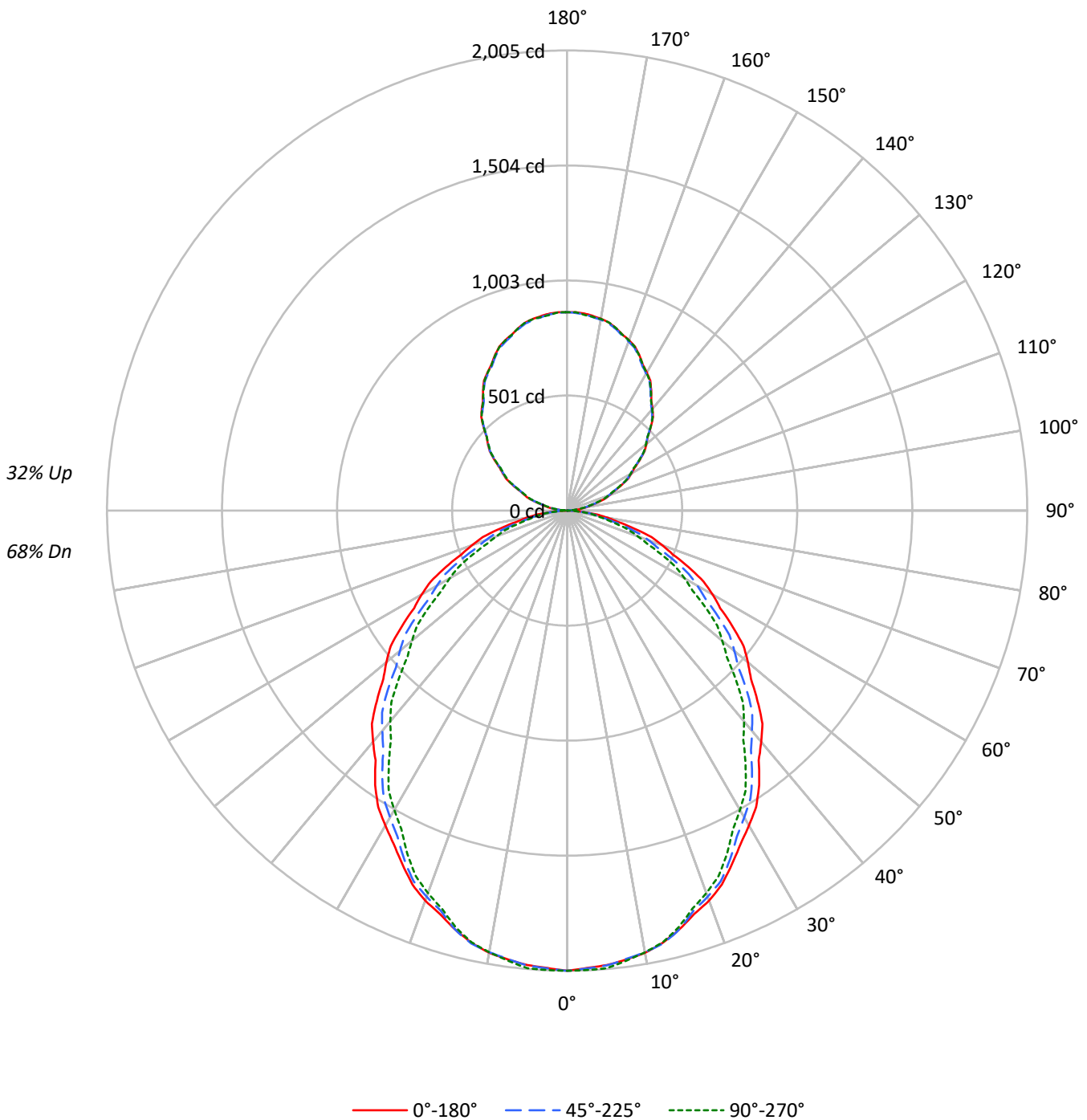
Input Watts (W): 54.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20										
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	105	105	105	105	93	93	93	83	83	83	73	73	73	68																				
1	102	98	94	90	96	92	89	86	82	80	77	73	71	70	65	63	62	58																				
2	93	86	79	74	88	81	76	71	73	68	65	65	61	59	57	55	53	49																				
3	85	76	68	62	80	72	65	60	64	59	55	57	53	50	51	48	45	42																				
4	78	67	59	53	73	64	56	51	57	51	47	51	47	43	46	42	39	36																				
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31																				
6	66	54	46	40	63	51	44	38	47	40	36	42	37	33	38	34	30	28																				
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	25																				
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	32	27	24	22																				
9	53	41	33	28	50	39	32	27	36	30	25	32	27	24	29	25	22	20																				
10	50	38	30	25	47	36	29	25	33	27	23	30	25	22	27	23	20	18																				

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

	0°	45°	90°
0°	22686	22686	22686
5°	22578	22595	22731
10°	22480	22447	22447
15°	22135	22135	22002
20°	21777	21554	21357
25°	21219	20954	20580
30°	20700	20161	19677
35°	20154	19407	18719
40°	19429	18503	17703
45°	18769	17699	16606
50°	18092	16738	15536
55°	17355	15811	14519
60°	16558	14852	13369
65°	15627	13758	12157
70°	14553	12478	10831
75°	13194	10951	9648
80°	11500	9181	8536
85°	8867	7763	7763

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18769 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.2	2.7
10°-20°	531.5	7.6
20°-30°	772.0	11.0
30°-40°	877.6	12.5
40°-50°	852.0	12.1
50°-60°	719.3	10.2
60°-70°	511.8	7.3
70°-80°	273.4	3.9
80°-90°	72.2	1.0
90°-100°	36.5	0.5
100°-110°	142.9	2.0
110°-120°	254.7	3.6
120°-130°	344.6	4.9
130°-140°	396.2	5.6
140°-150°	397.6	5.7
150°-160°	341.9	4.9
160°-170°	231.5	3.3
170°-180°	81.6	1.2
0°-30°	1492.7	21.2
0°-40°	2370.3	33.7
0°-60°	3941.6	56.1
0°-90°	4799.0	68.3
90°-120°	434.1	6.2
90°-150°	1572.6	22.4
90°-180°	2228.0	31.7
0°-180°	7026.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2005	2005	2005	2005	2005	
5°	1988	2013	1989	1987	2001	189
15°	1890	1906	1890	1878	1878	532
25°	1700	1705	1678	1655	1648	783
35°	1459	1445	1405	1364	1355	909
45°	1173	1155	1106	1053	1038	905
55°	880	856	802	750	736	787
65°	584	563	514	468	454	578
75°	302	285	250	225	221	322
85°	68	63	60	60	60	81
90°	0	0	0	0	0	4
95°	35	32	28	26	27	40
105°	138	138	133	131	130	148
115°	260	261	255	254	254	257
125°	387	392	384	382	383	346
135°	516	521	512	508	514	397
145°	639	644	634	630	636	399
155°	746	752	740	736	744	343
165°	823	830	819	815	823	232
175°	862	870	858	853	856	82
180°	864	864	864	864	864	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2005.0	2005.0	2005.0	2005.0	2005.0
2.5°	1994.8	2014.8	1997.1	1999.4	2003.9
5°	1987.9	2013.0	1989.4	1986.8	2001.4
7.5°	1972.6	1995.4	1970.9	1965.2	1977.7
10°	1956.6	1981.7	1953.8	1946.8	1953.8
12.5°	1928.2	1954.3	1932.1	1920.6	1926.4
15°	1889.7	1906.4	1889.7	1878.3	1878.3
17.5°	1842.7	1860.3	1828.8	1820.7	1817.6
20°	1808.6	1823.9	1790.1	1778.6	1773.7
22.5°	1763.0	1777.2	1749.1	1729.1	1723.6
25°	1699.7	1705.3	1678.4	1655.4	1648.5
27.5°	1636.8	1638.2	1601.2	1573.4	1564.2
30°	1584.4	1585.8	1543.1	1513.1	1506.1
32.5°	1532.0	1527.9	1487.3	1451.6	1446.9
35°	1459.1	1445.2	1405.0	1363.6	1355.2
37.5°	1371.2	1362.8	1315.4	1273.8	1261.3
40°	1315.4	1301.4	1252.7	1211.2	1198.6
42.5°	1259.6	1243.4	1193.5	1147.4	1133.7
45°	1173.0	1154.9	1106.1	1053.1	1037.8
47.5°	1085.9	1066.1	1012.4	961.1	944.1
50°	1027.8	1006.9	950.9	900.7	882.6
52.5°	968.6	946.6	890.6	839.3	824.5
55°	879.8	856.1	801.5	749.9	736.0
57.5°	790.9	767.5	713.2	664.4	647.7
60°	731.7	709.4	656.3	607.5	590.8
62.5°	671.3	650.2	598.2	550.6	535.0
65°	583.7	562.8	513.9	468.0	454.1
67.5°	496.8	479.0	430.8	388.7	377.5
70°	439.9	423.2	377.2	338.6	327.4
72.5°	385.2	367.4	323.7	290.8	283.0
75°	301.8	285.1	250.5	224.8	220.7
77.5°	225.5	211.8	181.9	167.4	165.1
80°	176.5	164.0	140.9	131.0	131.0
82.5°	131.0	120.7	105.6	101.4	101.4
85°	68.3	62.8	59.8	59.8	59.8
87.5°	20.5	20.5	19.4	18.2	18.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	9.5	8.5	5.3	4.2	4.2
95°	35.1	31.9	28.5	26.5	27.2
97.5°	64.8	61.7	57.5	55.5	56.1
100°	85.5	82.9	78.2	76.2	76.2
102.5°	105.6	104.1	99.4	97.4	97.9
105°	138.5	137.9	133.2	131.2	129.9
107.5°	174.8	173.7	168.5	168.3	167.1
110°	198.2	197.5	192.9	192.2	191.5



TEST NUMBER: P824296

CATALOG NUMBER: CB3-D-055U-120D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	222.0	222.9	217.8	217.1	216.4
115°	259.8	261.1	255.1	254.5	253.8
117.5°	298.5	300.3	294.0	293.3	292.1
120°	323.4	327.3	319.4	318.8	318.1
122.5°	348.9	352.2	344.9	343.7	343.6
125°	387.0	391.6	383.7	382.4	383.1
127.5°	425.2	429.9	422.5	419.9	421.4
130°	450.6	455.8	448.0	445.4	447.3
132.5°	476.6	481.8	474.0	471.4	474.4
135°	515.6	520.8	512.3	508.4	513.6
137.5°	553.6	558.2	548.9	546.2	551.6
140°	578.6	583.1	573.3	570.1	576.6
142.5°	602.9	608.0	597.1	594.0	601.0
145°	638.9	644.0	633.6	630.4	636.2
147.5°	673.3	678.6	668.0	664.3	670.3
150°	694.5	700.4	689.2	686.1	692.5
152.5°	715.2	721.6	709.9	706.2	714.3
155°	745.6	752.0	739.6	736.5	744.2
157.5°	772.9	778.8	767.6	764.4	771.1
160°	789.3	795.8	784.0	780.9	788.6
162.5°	803.6	810.1	799.4	795.2	803.0
165°	823.1	830.2	819.1	814.7	823.1
167.5°	839.4	847.0	835.3	831.2	839.7
170°	848.9	856.1	844.3	839.2	847.6
172.5°	855.3	862.4	850.7	845.5	851.3
175°	862.2	870.0	858.2	853.0	856.2
177.5°	865.2	871.5	862.1	857.5	864.7
180°	864.2	864.2	864.2	864.2	864.2



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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	19.54	20.57	20.32	21.38	22.36	18.46	19.50	19.24	20.30	21.29
	3H	21.22	22.15	22.02	22.96	23.98	19.89	20.82	20.68	21.63	22.65
	4H	21.86	22.73	22.67	23.56	24.58	20.41	21.29	21.23	22.11	23.14
	6H	22.25	23.06	23.08	23.89	24.93	20.74	21.55	21.57	22.38	23.42
	8H	22.39	23.16	23.23	24.01	25.05	20.87	21.64	21.70	22.49	23.53
	12H	22.47	23.20	23.31	24.04	25.11	20.95	21.68	21.79	22.53	23.59
4H	2H	19.97	20.84	20.79	21.67	22.69	19.11	19.99	19.93	20.81	21.83
	3H	21.87	22.60	22.70	23.46	24.50	20.74	21.47	21.57	22.33	23.37
	4H	22.63	23.29	23.47	24.15	25.22	21.36	22.02	22.20	22.88	23.95
	6H	23.14	23.72	24.00	24.59	25.67	21.78	22.35	22.64	23.23	24.31
	8H	23.34	23.87	24.20	24.75	25.83	21.95	22.49	22.82	23.36	24.45
	12H	23.44	23.92	24.33	24.82	25.91	22.07	22.55	22.95	23.44	24.54
8H	4H	22.77	23.31	23.64	24.18	25.27	21.63	22.17	22.50	23.04	24.13
	6H	23.40	23.84	24.29	24.76	25.84	22.17	22.61	23.06	23.53	24.61
	8H	23.67	24.07	24.58	24.98	26.08	22.42	22.82	23.32	23.73	24.83
	12H	23.85	24.19	24.75	25.10	26.25	22.61	22.95	23.51	23.86	25.01
12H	4H	22.75	23.24	23.64	24.13	25.22	21.64	22.13	22.53	23.02	24.11
	6H	23.41	23.81	24.32	24.72	25.82	22.23	22.62	23.13	23.53	24.63
	8H	23.72	24.07	24.63	24.97	26.13	22.52	22.86	23.42	23.77	24.92