

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: P824297

Luminaire Tested: CB3-D-055U-120D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824297  
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-840-1D-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, 4000K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6932.9 lumens  
Efficiency: N/A  
Efficacy: 128.2 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

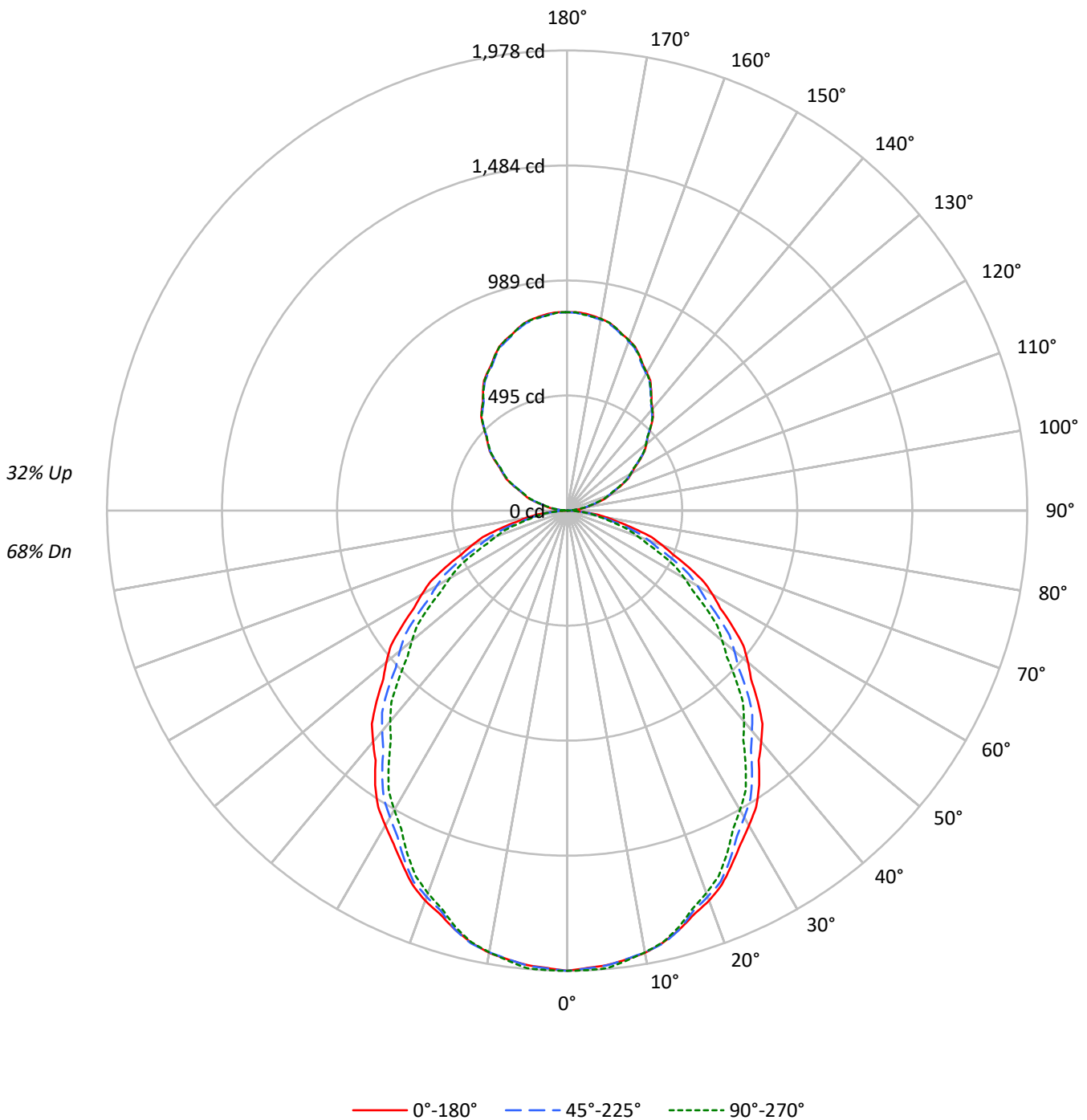
Input Watts (W): 54.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	22384	22384	22384
5°	22277	22293	22428
10°	22180	22148	22148
15°	21840	21840	21709
20°	21487	21266	21072
25°	20937	20674	20306
30°	20424	19893	19415
35°	19886	19148	18470
40°	19169	18256	17469
45°	18520	17464	16384
50°	17851	16516	15328
55°	17122	15600	14325
60°	16338	14652	13191
65°	15418	13576	11997
70°	14357	12313	10689
75°	13019	10807	9517
80°	11351	9063	8418
85°	8750	7659	7659

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18520 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.7	2.7
10°-20°	524.4	7.6
20°-30°	761.7	11.0
30°-40°	865.9	12.5
40°-50°	840.6	12.1
50°-60°	709.7	10.2
60°-70°	505.0	7.3
70°-80°	269.8	3.9
80°-90°	71.3	1.0
90°-100°	36.0	0.5
100°-110°	141.0	2.0
110°-120°	251.3	3.6
120°-130°	340.0	4.9
130°-140°	390.9	5.6
140°-150°	392.3	5.7
150°-160°	337.4	4.9
160°-170°	228.4	3.3
170°-180°	80.5	1.2
0°-30°	1472.8	21.2
0°-40°	2338.7	33.7
0°-60°	3889.1	56.1
0°-90°	4735.1	68.3
90°-120°	428.3	6.2
90°-150°	1551.6	22.4
90°-180°	2198.0	31.7
0°-180°	6932.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1978	1978	1978	1978	1978	
5°	1961	1986	1963	1960	1975	186
15°	1864	1881	1864	1853	1853	525
25°	1677	1683	1656	1633	1626	773
35°	1440	1426	1386	1345	1337	897
45°	1157	1140	1091	1039	1024	893
55°	868	845	791	740	726	776
65°	576	555	507	462	448	570
75°	298	281	247	222	218	317
85°	67	62	59	59	59	80
90°	0	0	0	0	0	4
95°	35	32	28	26	27	40
105°	137	136	131	129	128	146
115°	256	258	252	251	250	254
125°	382	386	379	377	378	341
135°	509	514	506	502	507	392
145°	630	636	625	622	628	394
155°	736	742	730	727	734	338
165°	812	819	808	804	812	229
175°	851	858	847	842	845	81
180°	853	853	853	853	853	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1978.3	1978.3	1978.3	1978.3	1978.3
2.5°	1968.2	1988.0	1970.4	1972.8	1977.2
5°	1961.4	1986.2	1962.8	1960.4	1974.7
7.5°	1946.3	1968.8	1944.6	1939.0	1951.3
10°	1930.5	1955.3	1927.7	1920.9	1927.7
12.5°	1902.4	1928.3	1906.4	1895.0	1900.8
15°	1864.5	1881.0	1864.5	1853.3	1853.3
17.5°	1818.2	1835.5	1804.4	1796.5	1793.3
20°	1784.5	1799.6	1766.2	1754.9	1750.1
22.5°	1739.5	1753.5	1725.8	1706.0	1700.7
25°	1677.1	1682.6	1656.0	1633.4	1626.5
27.5°	1615.0	1616.4	1579.9	1552.4	1543.3
30°	1563.3	1564.7	1522.6	1492.9	1486.0
32.5°	1511.6	1507.5	1467.5	1432.3	1427.6
35°	1439.7	1426.0	1386.3	1345.4	1337.2
37.5°	1352.9	1344.6	1297.8	1256.8	1244.5
40°	1297.8	1284.1	1236.0	1195.0	1182.7
42.5°	1242.8	1226.8	1177.6	1132.1	1118.6
45°	1157.4	1139.5	1091.4	1039.0	1023.9
47.5°	1071.4	1051.9	998.9	948.3	931.5
50°	1014.1	993.5	938.3	888.7	870.8
52.5°	955.7	934.0	878.7	828.1	813.5
55°	868.0	844.7	790.8	739.9	726.2
57.5°	780.4	757.3	703.7	655.6	639.1
60°	722.0	700.0	647.5	599.4	582.9
62.5°	662.4	641.5	590.2	543.2	527.8
65°	575.9	555.3	507.1	461.8	448.1
67.5°	490.2	472.6	425.0	383.5	372.5
70°	434.0	417.5	372.2	334.0	323.1
72.5°	380.1	362.5	319.4	286.9	279.2
75°	297.8	281.3	247.2	221.8	217.7
77.5°	222.5	209.0	179.5	165.1	162.9
80°	174.2	161.8	139.1	129.2	129.2
82.5°	129.2	119.1	104.2	100.0	100.0
85°	67.4	61.9	59.0	59.0	59.0
87.5°	20.2	20.2	19.1	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	9.4	8.4	5.2	4.2	4.2
95°	34.7	31.5	28.1	26.2	26.8
97.5°	63.9	60.9	56.8	54.8	55.3
100°	84.4	81.8	77.2	75.2	75.2
102.5°	104.2	102.7	98.1	96.1	96.6
105°	136.7	136.0	131.4	129.4	128.2
107.5°	172.5	171.3	166.2	166.1	164.9
110°	195.5	194.9	190.3	189.6	189.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	219.1	219.9	214.9	214.2	213.6
115°	256.3	257.6	251.7	251.1	250.4
117.5°	294.5	296.3	290.1	289.4	288.2
120°	319.1	322.9	315.2	314.5	313.9
122.5°	344.2	347.5	340.3	339.1	339.0
125°	381.9	386.3	378.6	377.3	377.9
127.5°	419.5	424.1	416.9	414.3	415.7
130°	444.6	449.8	442.0	439.5	441.4
132.5°	470.3	475.4	467.7	465.1	468.1
135°	508.7	513.8	505.5	501.6	506.8
137.5°	546.3	550.7	541.5	538.9	544.3
140°	570.8	575.3	565.6	562.5	568.9
142.5°	594.9	599.9	589.2	586.0	592.9
145°	630.3	635.5	625.1	622.0	627.7
147.5°	664.3	669.6	659.1	655.5	661.3
150°	685.3	691.0	680.0	676.9	683.3
152.5°	705.7	711.9	700.4	696.8	704.8
155°	735.6	742.0	729.7	726.6	734.3
157.5°	762.6	768.4	757.3	754.2	760.9
160°	778.8	785.2	773.5	770.5	778.1
162.5°	792.9	799.3	788.7	784.6	792.2
165°	812.1	819.2	808.2	803.8	812.1
167.5°	828.2	835.8	824.2	820.2	828.5
170°	837.6	844.7	833.0	828.0	836.3
172.5°	843.9	850.9	839.3	834.2	840.0
175°	850.7	858.4	846.8	841.6	844.8
177.5°	853.7	859.8	850.6	846.0	853.2
180°	852.7	852.7	852.7	852.7	852.7

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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	19.49	20.53	20.28	21.33	22.32	18.41	19.45	19.20	20.26	21.24
	3H	21.17	22.10	21.97	22.92	23.93	19.84	20.77	20.64	21.59	22.60
	4H	21.81	22.69	22.63	23.51	24.54	20.37	21.24	21.18	22.07	23.09
	6H	22.20	23.01	23.03	23.84	24.88	20.69	21.50	21.52	22.33	23.37
	8H	22.35	23.12	23.18	23.97	25.01	20.82	21.59	21.66	22.44	23.48
	12H	22.42	23.15	23.26	24.00	25.06	20.90	21.64	21.74	22.48	23.54
4H	2H	19.92	20.80	20.74	21.62	22.65	19.06	19.94	19.88	20.76	21.79
	3H	21.83	22.56	22.66	23.41	24.46	20.70	21.43	21.53	22.29	23.33
	4H	22.58	23.25	23.43	24.10	25.17	21.31	21.98	22.16	22.83	23.90
	6H	23.09	23.67	23.95	24.55	25.62	21.73	22.31	22.59	23.19	24.26
	8H	23.29	23.83	24.15	24.70	25.79	21.91	22.44	22.77	23.32	24.40
	12H	23.39	23.88	24.28	24.77	25.86	22.02	22.50	22.90	23.40	24.49
8H	4H	22.72	23.26	23.59	24.14	25.22	21.59	22.12	22.45	23.00	24.08
	6H	23.35	23.80	24.24	24.71	25.80	22.12	22.57	23.01	23.48	24.57
	8H	23.63	24.02	24.53	24.93	26.04	22.37	22.77	23.28	23.68	24.78
	12H	23.80	24.15	24.71	25.05	26.20	22.56	22.91	23.46	23.81	24.96
12H	4H	22.71	23.19	23.59	24.08	25.17	21.60	22.08	22.48	22.97	24.06
	6H	23.37	23.76	24.27	24.67	25.78	22.18	22.57	23.08	23.48	24.59
	8H	23.68	24.02	24.58	24.93	26.08	22.47	22.82	23.37	23.72	24.87