

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: P824341

Luminaire Tested: CB3-D-125U-055D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824341  
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-125U-055D-835-1D-UNV-STD-W-4  
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER  
3-INCH APERTURE  
DOWNLIGHT 550 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 80 CRI, 3500K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7255.9 lumens  
Efficiency: N/A  
Efficacy: 134.9 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-Indirect

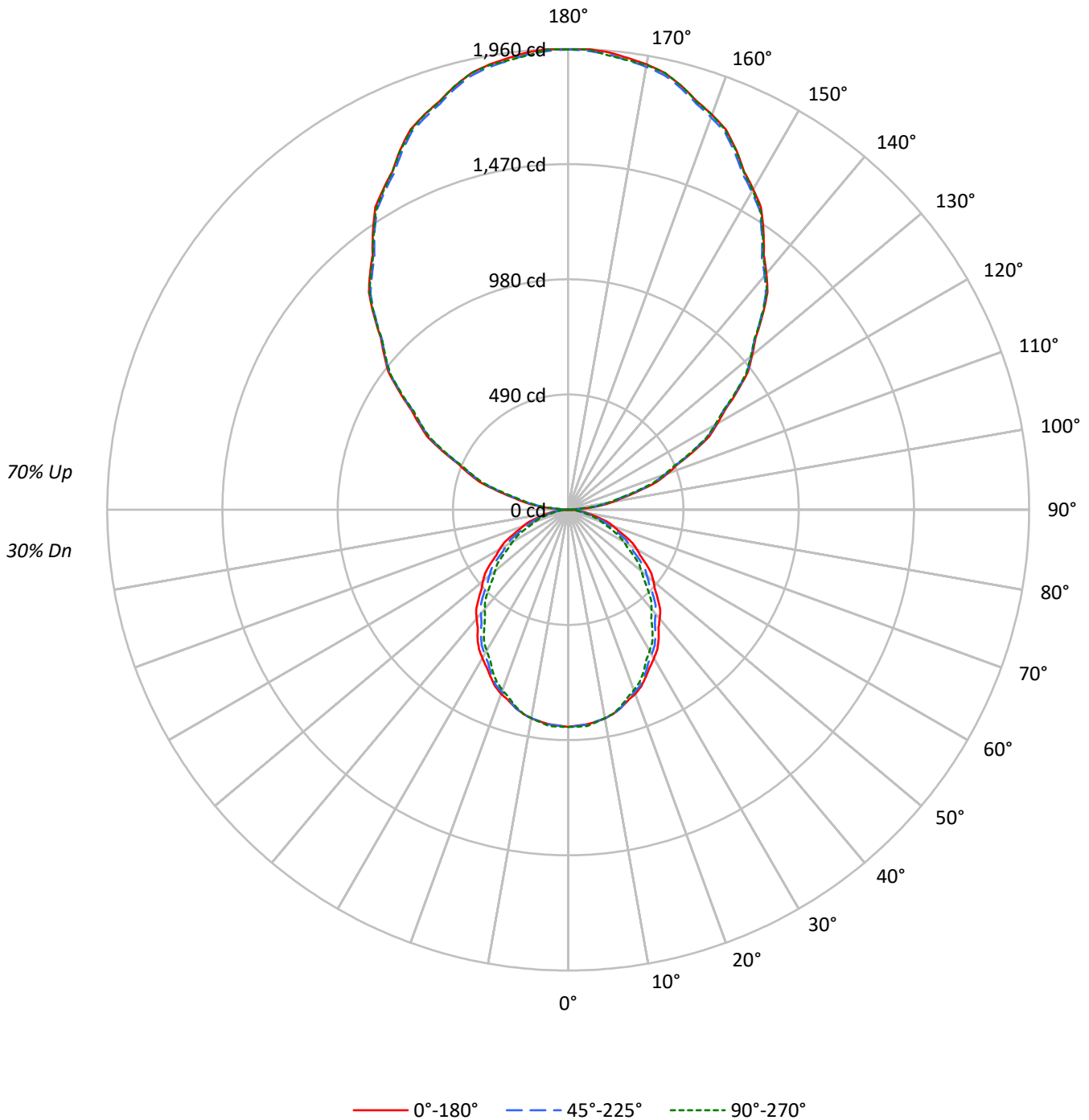
Input Watts (W): 53.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P824341

CATALOG NUMBER: CB3-D-125U-055D-835-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P824341

CATALOG NUMBER: CB3-D-125U-055D-835-1D-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	102	102	102	102	92	92	92	92	72	72	72	55	55	55	38	38	38	30
1	94	89	86	82	84	80	77	74	64	61	60	48	47	46	34	33	32	26
2	85	78	72	67	76	70	65	61	56	52	49	42	40	38	30	29	27	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	23	19
4	71	61	53	47	64	55	48	43	44	39	35	33	30	28	24	22	20	16
5	65	54	46	41	58	49	42	37	39	34	31	30	27	24	21	19	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	19	17	16	12
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	22	19	16	16	14	12	10
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

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

	0°	45°	90°
0°	10454	10454	10454
5°	10405	10412	10489
10°	10360	10345	10345
15°	10201	10201	10139
20°	10036	9934	9829
25°	9765	9643	9472
30°	9527	9279	9055
35°	9275	8931	8615
40°	8942	8515	8147
45°	8637	8145	7642
50°	8326	7703	7150
55°	7987	7275	6681
60°	7619	6834	6153
65°	7191	6332	5595
70°	6696	5743	4985
75°	6072	5040	4437
80°	5291	4229	3929
85°	4076	3570	3570

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8637 cd/sqm



TEST NUMBER: P824341

CATALOG NUMBER: CB3-D-125U-055D-835-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.2	1.2
10°-20°	244.9	3.4
20°-30°	355.4	4.9
30°-40°	403.9	5.6
40°-50°	392.1	5.4
50°-60°	331.0	4.6
60°-70°	235.5	3.2
70°-80°	125.8	1.7
80°-90°	33.2	0.5
90°-100°	82.7	1.1
100°-110°	323.7	4.5
110°-120°	577.0	8.0
120°-130°	780.8	10.8
130°-140°	897.7	12.4
140°-150°	900.8	12.4
150°-160°	774.7	10.7
160°-170°	524.4	7.2
170°-180°	184.9	2.5
0°-30°	687.5	9.5
0°-40°	1091.4	15.0
0°-60°	1814.6	25.0
0°-90°	2209.1	30.4
90°-120°	983.5	13.6
90°-150°	3562.8	49.1
90°-180°	5047.0	69.6
0°-180°	7255.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	916	928	917	916	924	87
15°	871	879	871	866	866	245
25°	782	785	772	762	759	361
35°	672	665	647	628	624	418
45°	540	532	509	485	478	416
55°	405	394	369	345	339	362
65°	269	259	236	215	209	266
75°	139	131	115	104	102	148
85°	31	29	28	28	28	37
90°	0	0	0	0	0	4
95°	80	72	65	60	62	91
105°	314	312	302	297	294	335
115°	589	592	578	576	575	583
125°	877	887	869	866	868	784
135°	1168	1180	1161	1152	1164	901
145°	1447	1459	1435	1428	1441	904
155°	1689	1704	1676	1668	1686	777
165°	1865	1881	1856	1846	1865	525
175°	1953	1971	1944	1933	1940	185
180°	1958	1958	1958	1958	1958	

TEST NUMBER: P824341

CATALOG NUMBER: CB3-D-125U-055D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	923.9	923.9	923.9	923.9	923.9
2.5°	919.2	928.5	920.3	921.4	923.4
5°	916.1	927.6	916.7	915.6	923.5
7.5°	909.0	919.5	908.2	905.6	911.4
10°	901.7	913.2	900.4	897.2	900.4
12.5°	888.6	900.6	890.4	885.1	887.8
15°	870.9	878.6	870.9	865.6	865.6
17.5°	849.3	857.3	842.8	839.1	837.4
20°	833.5	840.6	825.0	819.7	816.3
22.5°	812.6	819.1	806.2	796.0	793.3
25°	782.2	784.8	772.4	761.9	758.7
27.5°	753.3	753.9	736.9	724.1	719.9
30°	729.2	729.8	710.2	696.3	693.1
32.5°	705.1	703.1	684.5	668.1	665.9
35°	671.5	665.1	646.6	627.5	623.7
37.5°	631.0	627.2	605.4	586.2	580.5
40°	605.4	598.9	576.5	557.4	551.6
42.5°	579.7	572.2	549.3	528.0	521.8
45°	539.8	531.5	509.0	484.6	477.6
47.5°	499.7	490.6	465.9	442.3	434.5
50°	473.0	463.4	437.6	414.5	406.2
52.5°	445.8	435.6	409.9	386.3	379.5
55°	404.9	394.0	368.8	345.1	338.7
57.5°	364.0	353.2	328.2	305.8	298.1
60°	336.7	326.5	302.0	279.6	271.9
62.5°	309.0	299.2	275.3	253.4	246.2
65°	268.6	259.0	236.5	215.4	209.0
67.5°	228.6	220.4	198.2	178.9	173.7
70°	202.4	194.8	173.6	155.8	150.7
72.5°	177.3	169.1	149.0	133.8	130.2
75°	138.9	131.2	115.3	103.5	101.5
77.5°	103.8	97.5	83.7	77.0	76.0
80°	81.2	75.5	64.9	60.3	60.3
82.5°	60.3	55.5	48.6	46.6	46.6
85°	31.4	28.9	27.5	27.5	27.5
87.5°	9.4	9.4	8.9	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	21.6	19.3	12.0	9.6	9.6
95°	79.6	72.2	64.6	60.1	61.6
97.5°	146.8	139.8	130.3	125.8	127.0
100°	193.7	187.8	177.2	172.7	172.7
102.5°	239.3	235.8	225.2	220.7	221.9
105°	313.8	312.3	301.8	297.2	294.3
107.5°	396.1	393.4	381.7	381.3	378.7
110°	448.9	447.5	436.9	435.4	433.9



TEST NUMBER: P824341

CATALOG NUMBER: CB3-D-125U-055D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	503.0	505.0	493.4	491.8	490.4
115°	588.6	591.5	578.1	576.5	575.1
117.5°	676.3	680.4	666.1	664.5	661.8
120°	732.7	741.5	723.7	722.2	720.7
122.5°	790.4	798.0	781.4	778.7	778.4
125°	876.9	887.1	869.4	866.4	867.8
127.5°	963.3	973.9	957.3	951.4	954.6
130°	1021.0	1032.7	1015.0	1009.1	1013.5
132.5°	1079.9	1091.6	1073.9	1068.0	1074.8
135°	1168.1	1179.9	1160.6	1151.9	1163.6
137.5°	1254.3	1264.6	1243.5	1237.5	1249.8
140°	1310.8	1321.1	1298.8	1291.6	1306.3
142.5°	1366.0	1377.5	1352.8	1345.7	1361.5
145°	1447.4	1459.2	1435.4	1428.2	1441.4
147.5°	1525.5	1537.5	1513.5	1505.1	1518.6
150°	1573.5	1586.8	1561.5	1554.4	1569.0
152.5°	1620.4	1634.8	1608.4	1600.1	1618.3
155°	1689.2	1703.8	1675.6	1668.5	1686.2
157.5°	1751.0	1764.5	1739.0	1731.8	1747.1
160°	1788.3	1802.9	1776.2	1769.1	1786.7
162.5°	1820.7	1835.4	1811.1	1801.6	1819.2
165°	1864.8	1881.0	1855.8	1845.7	1864.8
167.5°	1901.8	1919.1	1892.5	1883.3	1902.4
170°	1923.4	1939.5	1912.9	1901.3	1920.4
172.5°	1937.8	1953.9	1927.3	1915.6	1928.8
175°	1953.4	1971.0	1944.4	1932.6	1939.9
177.5°	1960.3	1974.4	1953.1	1942.7	1959.1
180°	1957.9	1957.9	1957.9	1957.9	1957.9



TEST NUMBER: P824341  
 CATALOG NUMBER: CB3-D-125U-055D-835-1D-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	13.14	13.84	14.25	14.95	16.47	12.06	12.77	13.17	13.87	15.40
	3H	14.79	15.42	15.91	16.54	18.08	13.46	14.09	14.58	15.21	16.75
	4H	15.42	16.01	16.55	17.13	18.68	13.97	14.57	15.10	15.68	17.23
	6H	15.79	16.34	16.93	17.46	19.02	14.28	14.83	15.42	15.95	17.51
	8H	15.93	16.45	17.07	17.58	19.13	14.40	14.92	15.54	16.06	17.61
	12H	15.99	16.48	17.13	17.61	19.19	14.47	14.97	15.62	16.09	17.67
4H	2H	13.53	14.13	14.66	15.24	16.79	12.67	13.27	13.81	14.38	15.93
	3H	15.40	15.90	16.54	17.04	18.60	14.27	14.77	15.42	15.91	17.47
	4H	16.15	16.60	17.29	17.73	19.31	14.87	15.33	16.02	16.46	18.04
	6H	16.64	17.03	17.79	18.18	19.75	15.28	15.67	16.43	16.82	18.39
	8H	16.83	17.19	17.98	18.34	19.92	15.44	15.81	16.59	16.95	18.54
	12H	16.92	17.25	18.08	18.40	20.00	15.54	15.87	16.71	17.03	18.62
8H	4H	16.26	16.63	17.41	17.77	19.36	15.12	15.49	16.27	16.63	18.22
	6H	16.88	17.18	18.05	18.36	19.95	15.65	15.95	16.82	17.13	18.72
	8H	17.15	17.41	18.33	18.58	20.18	15.90	16.16	17.07	17.32	18.93
	12H	17.31	17.54	18.49	18.70	20.34	16.07	16.30	17.25	17.46	19.10
12H	4H	16.23	16.56	17.39	17.71	19.31	15.12	15.45	16.28	16.60	18.20
	6H	16.89	17.15	18.07	18.32	19.92	15.70	15.96	16.88	17.13	18.73
	8H	17.18	17.41	18.36	18.58	20.21	15.98	16.21	17.16	17.37	19.01