

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: P824293

Luminaire Tested: CB3-D-055U-085D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824293  
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-835-1D-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, 3500K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5598.8 lumens  
Efficiency: N/A  
Efficacy: 134.6 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: Semi-Direct

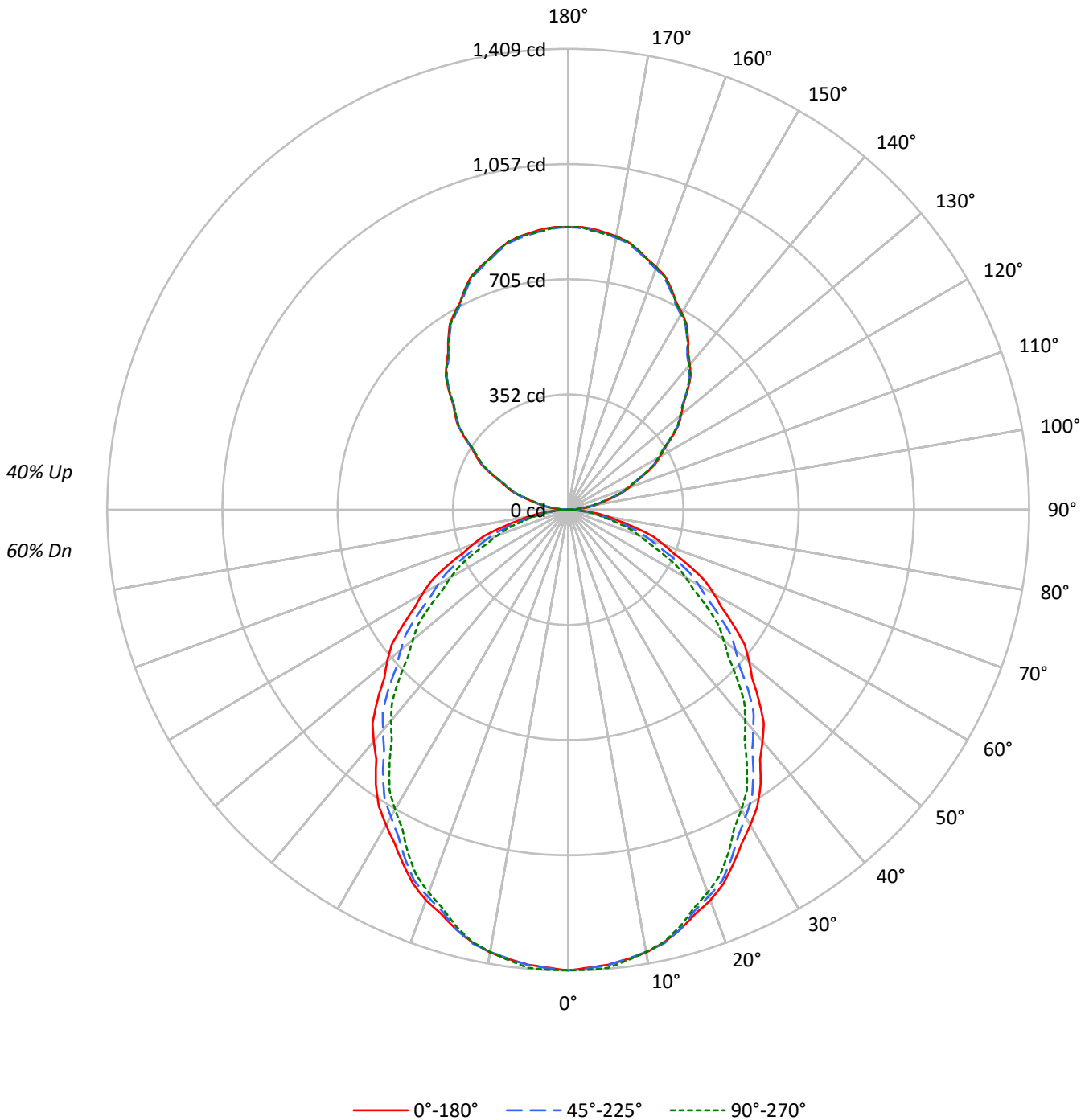
Input Watts (W): 41.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	15939	15939	15939
5°	15863	15875	15972
10°	15794	15771	15771
15°	15552	15552	15459
20°	15300	15144	15003
25°	14906	14719	14457
30°	14541	14162	13823
35°	14158	13633	13150
40°	13648	12998	12436
45°	13185	12433	11665
50°	12709	11758	10913
55°	12191	11106	10199
60°	11631	10432	9391
65°	10977	9665	8540
70°	10222	8767	7609
75°	9268	7694	6776
80°	8080	6451	5995
85°	6231	5452	5452

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13185 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.9	2.4
10°-20°	373.4	6.7
20°-30°	542.3	9.7
30°-40°	616.5	11.0
40°-50°	598.5	10.7
50°-60°	505.3	9.0
60°-70°	359.5	6.4
70°-80°	192.1	3.4
80°-90°	50.7	0.9
90°-100°	36.5	0.7
100°-110°	142.9	2.6
110°-120°	254.7	4.5
120°-130°	344.6	6.2
130°-140°	396.2	7.1
140°-150°	397.6	7.1
150°-160°	341.9	6.1
160°-170°	231.5	4.1
170°-180°	81.6	1.5
0°-30°	1048.7	18.7
0°-40°	1665.2	29.7
0°-60°	2768.9	49.5
0°-90°	3371.3	60.2
90°-120°	434.1	7.8
90°-150°	1572.6	28.1
90°-180°	2228.0	39.8
0°-180°	5598.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1409	1409	1409	1409	1409	
5°	1397	1414	1398	1396	1406	133
15°	1328	1339	1328	1320	1320	374
25°	1194	1198	1179	1163	1158	550
35°	1025	1015	987	958	952	639
45°	824	811	777	740	729	636
55°	618	601	563	527	517	553
65°	410	395	361	329	319	406
75°	212	200	176	158	155	226
85°	48	44	42	42	42	57
90°	0	0	0	0	0	3
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°	1408.7	1408.7	1408.7	1408.7	1408.7
2.5°	1401.5	1415.5	1403.1	1404.7	1407.9
5°	1396.7	1414.3	1397.7	1395.9	1406.3
7.5°	1385.9	1401.9	1384.7	1380.7	1389.5
10°	1374.7	1392.3	1372.7	1367.8	1372.7
12.5°	1354.7	1373.0	1357.5	1349.4	1353.5
15°	1327.7	1339.4	1327.7	1319.7	1319.7
17.5°	1294.7	1307.0	1284.9	1279.2	1276.9
20°	1270.7	1281.4	1257.7	1249.6	1246.0
22.5°	1238.7	1248.6	1228.9	1214.6	1210.8
25°	1194.0	1197.9	1179.0	1162.9	1158.0
27.5°	1149.8	1150.8	1124.8	1105.3	1098.8
30°	1113.0	1114.0	1084.0	1062.9	1058.0
32.5°	1076.2	1073.3	1044.8	1019.7	1016.4
35°	1025.0	1015.2	987.0	957.9	952.0
37.5°	963.2	957.3	924.0	894.8	886.0
40°	924.0	914.2	880.0	850.8	842.0
42.5°	884.8	873.5	838.4	806.0	796.4
45°	824.0	811.3	777.0	739.8	729.0
47.5°	762.8	748.9	711.2	675.1	663.2
50°	722.0	707.3	668.0	632.7	620.0
52.5°	680.4	665.0	625.6	589.6	579.2
55°	618.0	601.4	563.0	526.8	517.0
57.5°	555.6	539.2	501.0	466.7	455.0
60°	514.0	498.4	461.0	426.7	415.0
62.5°	471.6	456.7	420.2	386.8	375.8
65°	410.0	395.3	361.0	328.8	319.0
67.5°	349.0	336.5	302.6	273.0	265.2
70°	309.0	297.3	265.0	237.8	230.0
72.5°	270.6	258.1	227.4	204.3	198.8
75°	212.0	200.3	176.0	157.9	155.0
77.5°	158.4	148.8	127.8	117.6	116.0
80°	124.0	115.2	99.0	92.0	92.0
82.5°	92.0	84.8	74.2	71.2	71.2
85°	48.0	44.1	42.0	42.0	42.0
87.5°	14.4	14.4	13.6	12.8	12.8
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



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**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	17.66	18.61	18.53	19.50	20.61	16.58	17.53	17.45	18.42	19.54
	3H	19.34	20.18	20.21	21.08	22.23	18.00	18.85	18.88	19.75	20.89
	4H	19.97	20.77	20.86	21.67	22.83	18.52	19.33	19.42	20.23	21.38
	6H	20.36	21.10	21.27	22.01	23.17	18.85	19.59	19.75	20.49	21.66
	8H	20.50	21.20	21.41	22.13	23.30	18.97	19.68	19.89	20.60	21.77
	12H	20.57	21.24	21.49	22.16	23.35	19.05	19.72	19.97	20.64	21.83
4H	2H	18.08	18.88	18.98	19.78	20.94	17.22	18.02	18.12	18.93	20.08
	3H	19.98	20.65	20.89	21.58	22.75	18.85	19.52	19.76	20.45	21.62
	4H	20.73	21.34	21.65	22.27	23.46	19.46	20.07	20.38	21.00	22.19
	6H	21.24	21.76	22.17	22.72	23.91	19.88	20.40	20.81	21.35	22.55
	8H	21.43	21.92	22.37	22.87	24.08	20.05	20.54	20.99	21.49	22.69
	12H	21.53	21.97	22.49	22.94	24.15	20.16	20.60	21.11	21.56	22.78
8H	4H	20.87	21.36	21.80	22.30	23.51	19.73	20.22	20.66	21.16	22.37
	6H	21.49	21.89	22.45	22.88	24.09	20.26	20.66	21.22	21.65	22.86
	8H	21.77	22.12	22.74	23.10	24.33	20.51	20.87	21.49	21.85	23.08
	12H	21.93	22.25	22.91	23.22	24.50	20.69	21.01	21.67	21.98	23.25
12H	4H	20.84	21.29	21.80	22.25	23.47	19.73	20.18	20.69	21.14	22.35
	6H	21.51	21.87	22.48	22.84	24.07	20.32	20.68	21.29	21.65	22.88
	8H	21.81	22.13	22.79	23.10	24.37	20.60	20.92	21.58	21.89	23.16