

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: P824305

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

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824305
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-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 850 LUMENS PER FOOT
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5570.1 lumens
Efficiency: N/A
Efficacy: 137.9 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

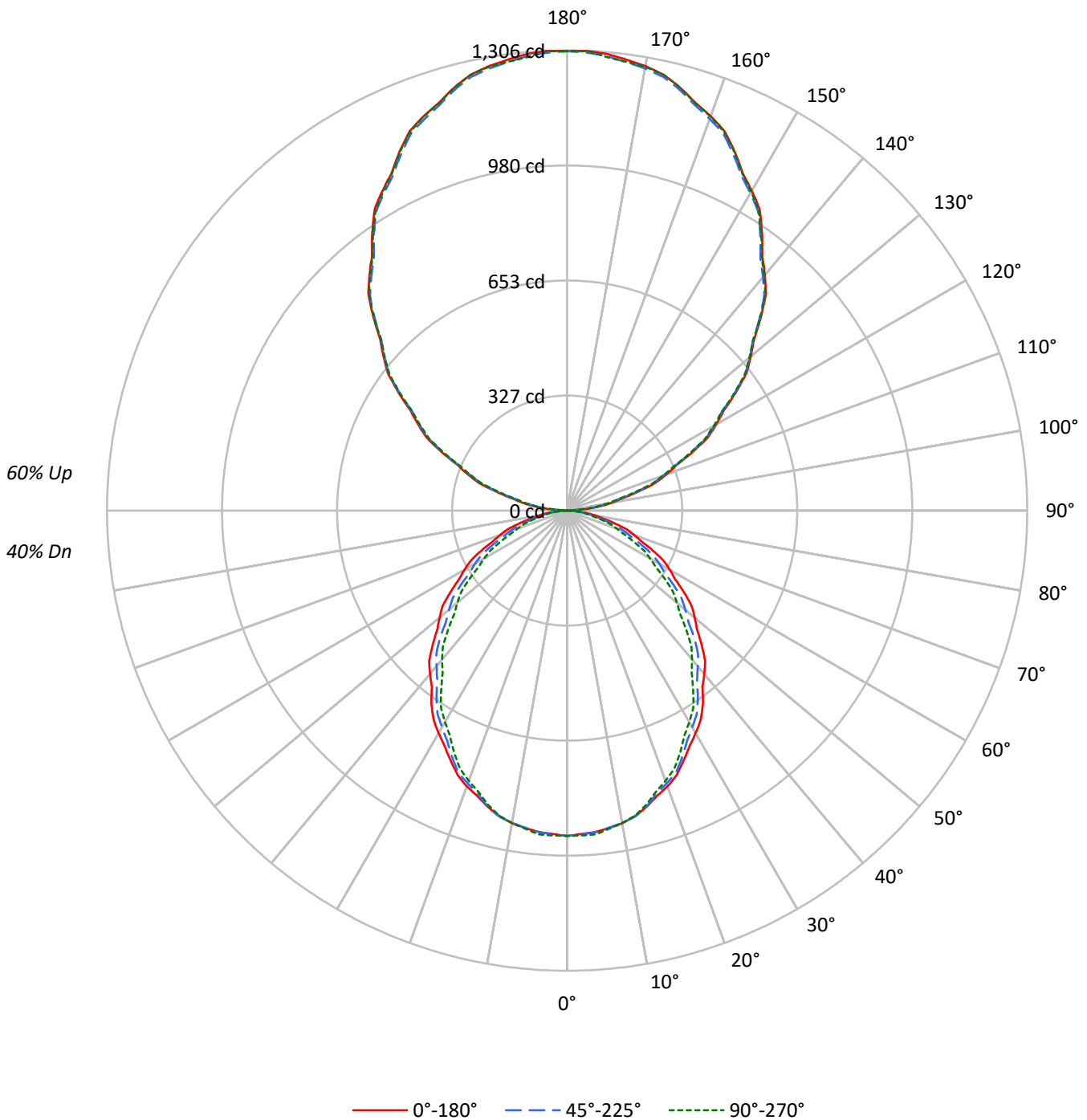
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	37	35	34	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	33	30	29	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	26	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10448	10448	10448
5°	10399	10406	10478
10°	10354	10339	10339
15°	10196	10196	10134
20°	10030	9928	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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	1.6
10°-20°	244.8	4.4
20°-30°	355.4	6.4
30°-40°	403.9	7.3
40°-50°	392.1	7.0
50°-60°	331.0	5.9
60°-70°	235.5	4.2
70°-80°	125.8	2.3
80°-90°	33.2	0.6
90°-100°	55.1	1.0
100°-110°	215.6	3.9
110°-120°	384.3	6.9
120°-130°	520.0	9.3
130°-140°	597.9	10.7
140°-150°	599.9	10.8
150°-160°	515.9	9.3
160°-170°	349.2	6.3
170°-180°	123.2	2.2
0°-30°	687.3	12.3
0°-40°	1091.2	19.6
0°-60°	1814.3	32.6
0°-90°	2208.9	39.7
90°-120°	655.0	11.8
90°-150°	2372.9	42.6
90°-180°	3361.0	60.3
0°-180°	5570.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	916	927	916	915	922	87
15°	870	878	870	865	865	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	3
95°	53	48	43	40	41	60
105°	209	208	201	198	196	223
115°	392	394	385	384	383	389
125°	584	591	579	577	578	522
135°	778	786	773	767	775	600
145°	964	972	956	951	960	602
155°	1125	1135	1116	1111	1123	517
165°	1242	1253	1236	1229	1242	350
175°	1301	1313	1295	1287	1292	123
180°	1304	1304	1304	1304	1304	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	923.4	923.4	923.4	923.4	923.4
2.5°	918.7	928.0	919.8	920.9	922.9
5°	915.6	927.1	916.2	915.1	922.5
7.5°	908.5	919.0	907.7	905.1	910.9
10°	901.2	912.7	899.9	896.7	899.9
12.5°	888.1	900.1	889.9	884.6	887.3
15°	870.4	878.1	870.4	865.1	865.1
17.5°	848.8	856.8	842.3	838.6	837.0
20°	833.0	840.1	824.5	819.2	816.3
22.5°	812.1	818.6	805.7	795.9	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°	14.4	12.8	8.0	6.4	6.4
95°	53.0	48.1	43.0	40.0	41.0
97.5°	97.8	93.1	86.8	83.8	84.6
100°	129.0	125.1	118.0	115.0	115.0
102.5°	159.4	157.1	150.0	147.0	147.8
105°	209.0	208.0	201.0	198.0	196.0
107.5°	263.8	262.0	254.2	254.0	252.2
110°	299.0	298.0	291.0	290.0	289.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	335.0	336.4	328.6	327.6	326.6
115°	392.0	394.0	385.0	384.0	383.0
117.5°	450.4	453.1	443.6	442.6	440.8
120°	488.0	493.9	482.0	481.0	480.0
122.5°	526.4	531.5	520.4	518.6	518.4
125°	584.0	590.8	579.0	577.0	578.0
127.5°	641.6	648.6	637.6	633.6	635.8
130°	680.0	687.8	676.0	672.1	675.0
132.5°	719.2	727.0	715.2	711.3	715.8
135°	778.0	785.8	773.0	767.2	775.0
137.5°	835.4	842.2	828.2	824.2	832.4
140°	873.0	879.8	865.0	860.2	870.0
142.5°	909.8	917.4	901.0	896.2	906.8
145°	964.0	971.8	956.0	951.2	960.0
147.5°	1016.0	1024.0	1008.0	1002.4	1011.4
150°	1048.0	1056.8	1040.0	1035.2	1045.0
152.5°	1079.2	1088.8	1071.2	1065.7	1077.8
155°	1125.0	1134.8	1116.0	1111.3	1123.0
157.5°	1166.2	1175.2	1158.2	1153.4	1163.6
160°	1191.0	1200.8	1183.0	1178.3	1190.0
162.5°	1212.6	1222.4	1206.2	1199.9	1211.6
165°	1242.0	1252.8	1236.0	1229.3	1242.0
167.5°	1266.6	1278.1	1260.4	1254.3	1267.0
170°	1281.0	1291.8	1274.0	1266.3	1279.0
172.5°	1290.6	1301.4	1283.6	1275.8	1284.6
175°	1301.0	1312.7	1295.0	1287.1	1292.0
177.5°	1305.6	1315.0	1300.8	1293.8	1304.8
180°	1304.0	1304.0	1304.0	1304.0	1304.0



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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	14.26	15.02	15.30	16.07	17.48	13.18	13.95	14.22	14.99	16.41
	3H	15.91	16.60	16.97	17.66	19.09	14.58	15.27	15.64	16.33	17.76
	4H	16.54	17.19	17.61	18.25	19.69	15.10	15.75	16.16	16.81	18.24
	6H	16.92	17.52	18.00	18.58	20.03	15.41	16.01	16.48	17.07	18.52
	8H	17.06	17.63	18.13	18.70	20.15	15.53	16.10	16.61	17.18	18.62
	12H	17.12	17.66	18.20	18.73	20.20	15.60	16.14	16.69	17.22	18.68
4H	2H	14.65	15.30	15.72	16.36	17.80	13.79	14.45	14.87	15.50	16.94
	3H	16.53	17.08	17.61	18.16	19.61	15.40	15.95	16.48	17.03	18.48
	4H	17.28	17.78	18.36	18.85	20.32	16.01	16.50	17.09	17.58	19.05
	6H	17.78	18.20	18.87	19.30	20.77	16.41	16.84	17.51	17.94	19.41
	8H	17.96	18.36	19.06	19.45	20.94	16.58	16.98	17.67	18.07	19.55
	12H	18.06	18.42	19.17	19.52	21.01	16.68	17.04	17.79	18.15	19.64
8H	4H	17.40	17.80	18.49	18.89	20.37	16.26	16.66	17.35	17.75	19.23
	6H	18.02	18.34	19.13	19.48	20.96	16.79	17.11	17.90	18.25	19.73
	8H	18.29	18.58	19.41	19.69	21.19	17.04	17.33	18.16	18.44	19.94
	12H	18.45	18.70	19.58	19.81	21.35	17.21	17.46	18.33	18.57	20.11
12H	4H	17.37	17.73	18.48	18.83	20.32	16.26	16.62	17.37	17.72	19.21
	6H	18.03	18.32	19.15	19.43	20.93	16.84	17.13	17.96	18.25	19.75
	8H	18.33	18.58	19.45	19.69	21.23	17.12	17.37	18.24	18.48	20.02