

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: P824289

Luminaire Tested: CB3-D-055U-055D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824289
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-055D-830-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
3-INCH APERTURE
DOWNLIGHT 550 LUMENS PER FOOT
UPLIGHT 550 LUMENS PER FOOT
Light Source: 80 CRI, 3000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4066.2 lumens
Efficiency: N/A
Efficacy: 125.1 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: General Diffuse

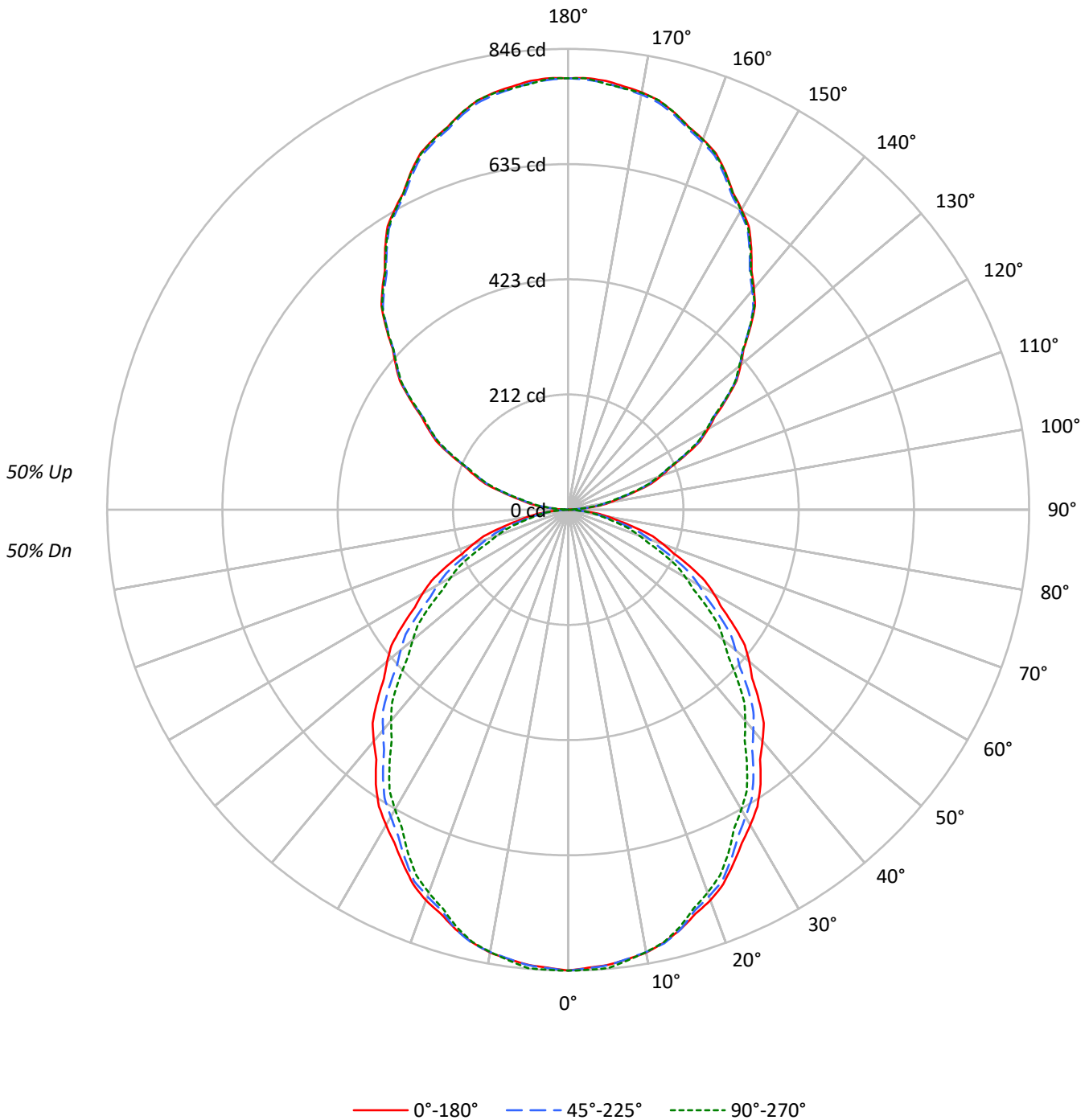
Input Watts (W): 32.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50				
1	98	94	90	86	90	87	83	80	73	71	69	61	59	58	50	49	48	42				
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36				
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	30				
4	75	64	56	50	69	59	53	47	51	45	41	43	39	36	35	32	30	26				
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	32	29	26	23				
6	63	51	43	37	58	48	41	35	41	35	31	35	30	27	29	26	23	20				
7	59	46	38	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18				
8	54	42	34	29	50	39	32	28	34	28	25	29	25	21	24	21	19	16				
9	51	38	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15				
10	47	35	28	23	44	33	27	22	29	23	20	25	20	18	21	18	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9573	9573	9573
5°	9528	9535	9596
10°	9487	9473	9473
15°	9342	9342	9284
20°	9189	9096	9009
25°	8951	8839	8682
30°	8731	8504	8300
35°	8502	8187	7897
40°	8194	7805	7468
45°	7917	7466	7005
50°	7632	7060	6553
55°	7320	6669	6125
60°	6986	6264	5639
65°	6591	5804	5130
70°	6140	5263	4569
75°	5565	4621	4070
80°	4854	3870	3597
85°	3739	3271	3271

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7917 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	2.0
10°-20°	224.3	5.5
20°-30°	325.7	8.0
30°-40°	370.2	9.1
40°-50°	359.4	8.8
50°-60°	303.4	7.5
60°-70°	215.9	5.3
70°-80°	115.4	2.8
80°-90°	30.5	0.7
90°-100°	33.5	0.8
100°-110°	131.0	3.2
110°-120°	233.4	5.7
120°-130°	315.9	7.8
130°-140°	363.2	8.9
140°-150°	364.4	9.0
150°-160°	313.4	7.7
160°-170°	212.1	5.2
170°-180°	74.8	1.8
0°-30°	629.8	15.5
0°-40°	1000.0	24.6
0°-60°	1662.8	40.9
0°-90°	2024.5	49.8
90°-120°	397.9	9.8
90°-150°	1441.4	35.4
90°-180°	2042.0	50.2
0°-180°	4066.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	839	850	840	838	845	80
15°	798	804	798	793	793	225
25°	717	719	708	698	695	330
35°	616	610	593	575	572	384
45°	495	487	467	444	438	382
55°	371	361	338	316	310	332
65°	246	237	217	197	192	244
75°	127	120	106	95	93	136
85°	29	26	25	25	25	34
90°	0	0	0	0	0	2
95°	32	29	26	24	25	37
105°	127	126	122	120	119	136
115°	238	239	234	233	233	236
125°	355	359	352	350	351	317
135°	473	477	470	466	471	364
145°	586	590	581	578	583	366
155°	683	689	678	675	682	314
165°	754	761	751	747	754	213
175°	790	797	787	782	785	75
180°	792	792	792	792	792	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	846.1	846.1	846.1	846.1	846.1
2.5°	841.8	850.2	842.7	843.7	845.6
5°	838.9	849.5	839.5	838.4	844.9
7.5°	832.4	842.0	831.7	829.3	834.6
10°	825.7	836.2	824.5	821.5	824.5
12.5°	813.7	824.7	815.3	810.5	812.9
15°	797.5	804.5	797.5	792.6	792.6
17.5°	777.6	785.0	771.8	768.4	766.9
20°	763.2	769.7	755.4	750.6	748.2
22.5°	744.0	750.0	738.1	729.4	727.1
25°	717.0	719.3	708.0	698.3	695.4
27.5°	690.4	691.0	675.4	663.7	659.8
30°	668.3	668.9	650.9	638.3	635.3
32.5°	646.2	644.5	627.4	612.3	610.3
35°	615.5	609.6	592.7	575.2	571.7
37.5°	578.4	574.9	554.8	537.3	532.0
40°	554.8	549.0	528.4	510.9	505.6
42.5°	531.3	524.5	503.4	484.0	478.2
45°	494.8	487.2	466.6	444.2	437.8
47.5°	458.1	449.7	427.1	405.4	398.2
50°	433.6	424.7	401.1	379.9	372.3
52.5°	408.6	399.3	375.7	354.0	347.8
55°	371.1	361.1	338.1	316.3	310.5
57.5°	333.6	323.8	300.8	280.3	273.2
60°	308.7	299.3	276.8	256.2	249.2
62.5°	283.2	274.3	252.3	232.2	225.7
65°	246.2	237.4	216.8	197.4	191.6
67.5°	209.6	202.1	181.7	163.9	159.2
70°	185.6	178.5	159.1	142.8	138.1
72.5°	162.5	155.0	136.6	122.7	119.4
75°	127.3	120.3	105.7	94.8	93.1
77.5°	95.1	89.4	76.7	70.6	69.7
80°	74.5	69.2	59.4	55.2	55.2
82.5°	55.2	50.9	44.6	42.8	42.8
85°	28.8	26.5	25.2	25.2	25.2
87.5°	8.6	8.6	8.2	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.7	7.8	4.9	3.9	3.9
95°	32.2	29.2	26.1	24.3	24.9
97.5°	59.4	56.6	52.7	50.9	51.4
100°	78.4	76.0	71.7	69.9	69.9
102.5°	96.8	95.4	91.1	89.3	89.8
105°	127.0	126.4	122.1	120.2	119.1
107.5°	160.2	159.2	154.4	154.3	153.2
110°	181.6	181.0	176.8	176.1	175.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	203.5	204.3	199.6	199.0	198.4
115°	238.1	239.3	233.9	233.2	232.6
117.5°	273.6	275.2	269.5	268.8	267.8
120°	296.4	300.0	292.8	292.2	291.6
122.5°	319.8	322.8	316.1	315.0	314.9
125°	354.7	358.9	351.7	350.5	351.1
127.5°	389.7	394.0	387.3	384.9	386.2
130°	413.1	417.8	410.6	408.2	410.0
132.5°	436.9	441.6	434.4	432.1	434.8
135°	472.6	477.3	469.5	466.0	470.8
137.5°	507.4	511.6	503.1	500.6	505.6
140°	530.3	534.4	525.4	522.5	528.5
142.5°	552.6	557.3	547.3	544.4	550.8
145°	585.6	590.3	580.7	577.8	583.1
147.5°	617.1	622.0	612.3	608.9	614.4
150°	636.6	641.9	631.7	628.8	634.8
152.5°	655.5	661.4	650.7	647.3	654.7
155°	683.4	689.3	677.9	675.0	682.1
157.5°	708.4	713.8	703.5	700.6	706.8
160°	723.4	729.4	718.6	715.7	722.8
162.5°	736.6	742.5	732.7	728.8	736.0
165°	754.4	761.0	750.8	746.7	754.4
167.5°	769.4	776.4	765.6	761.9	769.6
170°	778.1	784.6	773.9	769.2	776.9
172.5°	783.9	790.5	779.7	775.0	780.3
175°	790.3	797.4	786.6	781.8	784.8
177.5°	793.1	798.8	790.1	785.9	792.6
180°	792.1	792.1	792.1	792.1	792.1



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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	14.97	15.82	15.94	16.80	18.07	13.90	14.75	14.86	15.72	17.00
	3H	16.64	17.40	17.61	18.39	19.68	15.31	16.07	16.28	17.05	18.35
	4H	17.27	17.99	18.26	18.98	20.28	15.83	16.55	16.81	17.53	18.84
	6H	17.66	18.32	18.65	19.31	20.63	16.14	16.81	17.14	17.80	19.12
	8H	17.79	18.42	18.80	19.43	20.75	16.27	16.90	17.27	17.91	19.22
	12H	17.86	18.46	18.87	19.46	20.80	16.34	16.94	17.35	17.94	19.28
4H	2H	15.38	16.10	16.37	17.09	18.39	14.52	15.24	15.52	16.23	17.54
	3H	17.27	17.87	18.27	18.89	20.21	16.14	16.74	17.14	17.76	19.08
	4H	18.02	18.57	19.03	19.58	20.92	16.75	17.29	17.76	18.30	19.65
	6H	18.52	18.99	19.54	20.02	21.36	17.16	17.63	18.18	18.66	20.00
	8H	18.71	19.15	19.73	20.18	21.53	17.33	17.77	18.35	18.79	20.15
	12H	18.81	19.21	19.85	20.25	21.61	17.43	17.83	18.47	18.87	20.23
8H	4H	18.15	18.59	19.17	19.61	20.97	17.01	17.45	18.03	18.47	19.83
	6H	18.77	19.13	19.81	20.20	21.55	17.53	17.90	18.58	18.97	20.32
	8H	19.04	19.36	20.10	20.41	21.79	17.79	18.11	18.84	19.16	20.53
	12H	19.20	19.49	20.26	20.53	21.95	17.96	18.24	19.02	19.29	20.71
12H	4H	18.12	18.52	19.16	19.56	20.92	17.01	17.41	18.05	18.45	19.81
	6H	18.78	19.10	19.84	20.16	21.53	17.59	17.91	18.65	18.97	20.34
	8H	19.08	19.36	20.14	20.41	21.82	17.87	18.16	18.93	19.20	20.62