

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: P824281

Luminaire Tested: CB3-D-030U-120D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824281
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-030U-120D-835-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
3-INCH APERTURE
DOWNLIGHT 1200 LUMENS PER FOOT
UPLIGHT 300 LUMENS PER FOOT
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5952.8 lumens
Efficiency: N/A
Efficacy: 128.6 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

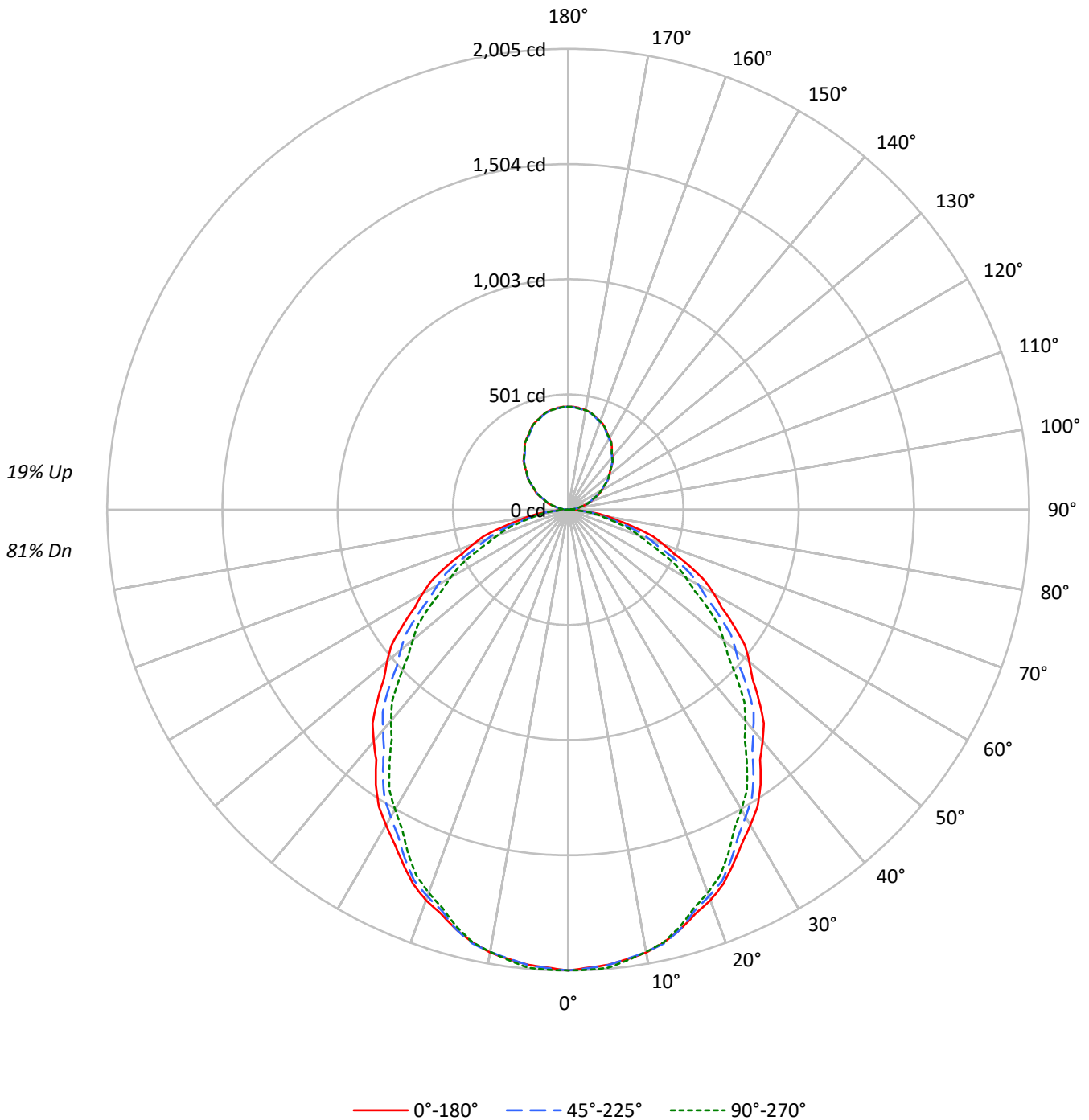
Input Watts (W): 46.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	114	114	114	114	110	110	110	110	100	100	100	92	92	92	84	84	84	81				
1	105	101	97	93	100	96	93	90	89	86	83	82	79	77	75	73	72	69				
2	96	88	82	77	91	85	79	74	78	73	70	72	68	65	66	63	61	58				
3	88	78	70	64	84	75	68	62	69	64	59	64	59	55	59	55	52	49				
4	80	69	61	55	77	67	59	53	62	55	51	57	52	48	53	49	45	43				
5	74	62	54	47	71	60	52	46	56	49	44	52	46	42	48	43	40	37				
6	68	56	47	41	65	54	46	41	50	44	39	47	41	37	44	39	35	33				
7	64	51	42	37	61	49	41	36	46	39	34	43	37	33	40	35	31	29				
8	59	46	38	33	57	45	37	32	42	35	31	39	34	29	37	32	28	26				
9	55	43	35	29	53	41	34	29	39	32	28	36	31	27	34	29	26	24				
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	23	22				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22682	22682	22682
5°	22575	22591	22725
10°	22476	22444	22444
15°	22132	22132	21998
20°	21773	21549	21357
25°	21219	20954	20580
30°	20700	20161	19677
35°	20154	19407	18719
40°	19429	18503	17703
45°	18769	17699	16606
50°	18092	16738	15536
55°	17355	15811	14519
60°	16558	14852	13369
65°	15627	13758	12157
70°	14553	12478	10831
75°	13194	10951	9648
80°	11500	9181	8536
85°	8867	7763	7763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18769 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	3.2
10°-20°	531.4	8.9
20°-30°	772.0	13.0
30°-40°	877.6	14.7
40°-50°	852.0	14.3
50°-60°	719.3	12.1
60°-70°	511.8	8.6
70°-80°	273.4	4.6
80°-90°	72.2	1.2
90°-100°	18.9	0.3
100°-110°	74.0	1.2
110°-120°	131.9	2.2
120°-130°	178.5	3.0
130°-140°	205.2	3.4
140°-150°	205.9	3.5
150°-160°	177.1	3.0
160°-170°	119.9	2.0
170°-180°	42.3	0.7
0°-30°	1492.5	25.1
0°-40°	2370.1	39.8
0°-60°	3941.4	66.2
0°-90°	4798.9	80.6
90°-120°	224.9	3.8
90°-150°	814.6	13.7
90°-180°	1154.0	19.4
0°-180°	5952.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2005	2005	2005	2005	2005	
5°	1988	2013	1989	1986	2001	189
15°	1889	1906	1889	1878	1878	532
25°	1700	1705	1678	1655	1648	783
35°	1459	1445	1405	1364	1355	909
45°	1173	1155	1106	1053	1038	905
55°	880	856	802	750	736	787
65°	584	563	514	468	454	578
75°	302	285	250	225	221	322
85°	68	63	60	60	60	81
90°	0	0	0	0	0	3
95°	18	16	15	14	14	21
105°	72	71	69	68	67	77
115°	135	135	132	132	132	133
125°	200	203	199	198	198	179
135°	267	270	265	263	266	206
145°	331	334	328	326	330	207
155°	386	390	383	382	386	178
165°	426	430	424	422	426	120
175°	447	451	445	442	444	42
180°	448	448	448	448	448	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2004.7	2004.7	2004.7	2004.7	2004.7
2.5°	1994.5	2014.5	1996.7	1999.1	2003.6
5°	1987.6	2012.7	1989.0	1986.5	2000.8
7.5°	1972.2	1995.1	1970.5	1964.8	1977.4
10°	1956.3	1981.4	1953.5	1946.5	1953.5
12.5°	1927.8	1954.0	1931.8	1920.3	1926.1
15°	1889.4	1906.1	1889.4	1878.0	1878.0
17.5°	1842.4	1860.0	1828.5	1820.4	1817.3
20°	1808.3	1823.6	1789.7	1778.3	1773.7
22.5°	1762.7	1776.9	1748.7	1729.0	1723.6
25°	1699.7	1705.3	1678.4	1655.4	1648.5
27.5°	1636.8	1638.2	1601.2	1573.4	1564.2
30°	1584.4	1585.8	1543.1	1513.1	1506.1
32.5°	1532.0	1527.9	1487.3	1451.6	1446.9
35°	1459.1	1445.2	1405.0	1363.6	1355.2
37.5°	1371.2	1362.8	1315.4	1273.8	1261.3
40°	1315.4	1301.4	1252.7	1211.2	1198.6
42.5°	1259.6	1243.4	1193.5	1147.4	1133.7
45°	1173.0	1154.9	1106.1	1053.1	1037.8
47.5°	1085.9	1066.1	1012.4	961.1	944.1
50°	1027.8	1006.9	950.9	900.7	882.6
52.5°	968.6	946.6	890.6	839.3	824.5
55°	879.8	856.1	801.5	749.9	736.0
57.5°	790.9	767.5	713.2	664.4	647.7
60°	731.7	709.4	656.3	607.5	590.8
62.5°	671.3	650.2	598.2	550.6	535.0
65°	583.7	562.8	513.9	468.0	454.1
67.5°	496.8	479.0	430.8	388.7	377.5
70°	439.9	423.2	377.2	338.6	327.4
72.5°	385.2	367.4	323.7	290.8	283.0
75°	301.8	285.1	250.5	224.8	220.7
77.5°	225.5	211.8	181.9	167.4	165.1
80°	176.5	164.0	140.9	131.0	131.0
82.5°	131.0	120.7	105.6	101.4	101.4
85°	68.3	62.8	59.8	59.8	59.8
87.5°	20.5	20.5	19.4	18.2	18.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	4.4	2.7	2.2	2.2
95°	18.2	16.5	14.8	13.7	14.1
97.5°	33.6	32.0	29.8	28.8	29.0
100°	44.3	42.9	40.5	39.5	39.5
102.5°	54.7	53.9	51.5	50.5	50.7
105°	71.7	71.4	69.0	68.0	67.3
107.5°	90.6	90.0	87.3	87.2	86.6
110°	102.6	102.3	99.9	99.5	99.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	115.0	115.5	112.8	112.5	112.1
115°	134.6	135.2	132.2	131.8	131.5
117.5°	154.6	155.6	152.3	151.9	151.3
120°	167.5	169.5	165.5	165.1	164.8
122.5°	180.7	182.5	178.6	178.0	178.0
125°	200.5	202.8	198.8	198.1	198.4
127.5°	220.3	222.7	218.9	217.5	218.3
130°	233.4	236.1	232.1	230.7	231.7
132.5°	246.9	249.6	245.5	244.2	245.7
135°	267.1	269.8	265.4	263.4	266.0
137.5°	286.8	289.1	284.3	282.9	285.8
140°	299.7	302.0	296.9	295.3	298.7
142.5°	312.3	314.9	309.3	307.7	311.3
145°	330.9	333.6	328.2	326.5	329.6
147.5°	348.8	351.5	346.0	344.1	347.2
150°	359.8	362.8	357.0	355.4	358.7
152.5°	370.5	373.8	367.7	365.8	370.0
155°	386.2	389.6	383.1	381.5	385.5
157.5°	400.3	403.4	397.6	396.0	399.4
160°	408.9	412.2	406.1	404.5	408.5
162.5°	416.3	419.6	414.1	411.9	415.9
165°	426.4	430.1	424.3	422.0	426.4
167.5°	434.8	438.8	432.7	430.6	434.9
170°	439.7	443.4	437.3	434.7	439.1
172.5°	443.0	446.7	440.6	438.0	441.0
175°	446.6	450.6	444.6	441.8	443.5
177.5°	448.2	451.4	446.5	444.2	447.9
180°	447.6	447.6	447.6	447.6	447.6



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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	20.46	21.67	21.11	22.32	23.08	19.38	20.59	20.03	21.24	22.00
	3H	22.15	23.24	22.81	23.90	24.69	20.82	21.90	21.48	22.57	23.36
	4H	22.80	23.82	23.48	24.50	25.30	21.36	22.37	22.03	23.05	23.86
	6H	23.20	24.14	23.89	24.83	25.65	21.69	22.63	22.38	23.32	24.14
	8H	23.35	24.25	24.05	24.95	25.78	21.82	22.72	22.52	23.43	24.25
	12H	23.43	24.28	24.13	24.99	25.83	21.91	22.77	22.62	23.47	24.32
4H	2H	20.91	21.93	21.59	22.61	23.41	20.05	21.07	20.73	21.75	22.55
	3H	22.83	23.68	23.52	24.40	25.22	21.70	22.55	22.39	23.27	24.09
	4H	23.59	24.36	24.30	25.08	25.93	22.32	23.09	23.03	23.81	24.66
	6H	24.11	24.78	24.84	25.53	26.39	22.75	23.42	23.48	24.16	25.03
	8H	24.31	24.94	25.05	25.68	26.55	22.93	23.56	23.66	24.30	25.17
	12H	24.43	24.99	25.18	25.75	26.63	23.05	23.61	23.81	24.38	25.26
8H	4H	23.75	24.37	24.48	25.11	25.99	22.61	23.23	23.34	23.97	24.85
	6H	24.38	24.90	25.14	25.68	26.56	23.15	23.67	23.92	24.45	25.33
	8H	24.66	25.12	25.44	25.91	26.80	23.41	23.87	24.18	24.65	25.54
	12H	24.84	25.25	25.62	26.02	26.97	23.60	24.01	24.38	24.78	25.73
12H	4H	23.74	24.30	24.49	25.06	25.94	22.63	23.19	23.38	23.95	24.83
	6H	24.40	24.86	25.18	25.65	26.54	23.21	23.67	23.99	24.46	25.35
	8H	24.72	25.12	25.49	25.90	26.85	23.51	23.92	24.29	24.69	25.64