

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: P824280

Luminaire Tested: CB3-D-030U-120D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824280
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-830-1D-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, 3000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5456.1 lumens
Efficiency: N/A
Efficacy: 117.8 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

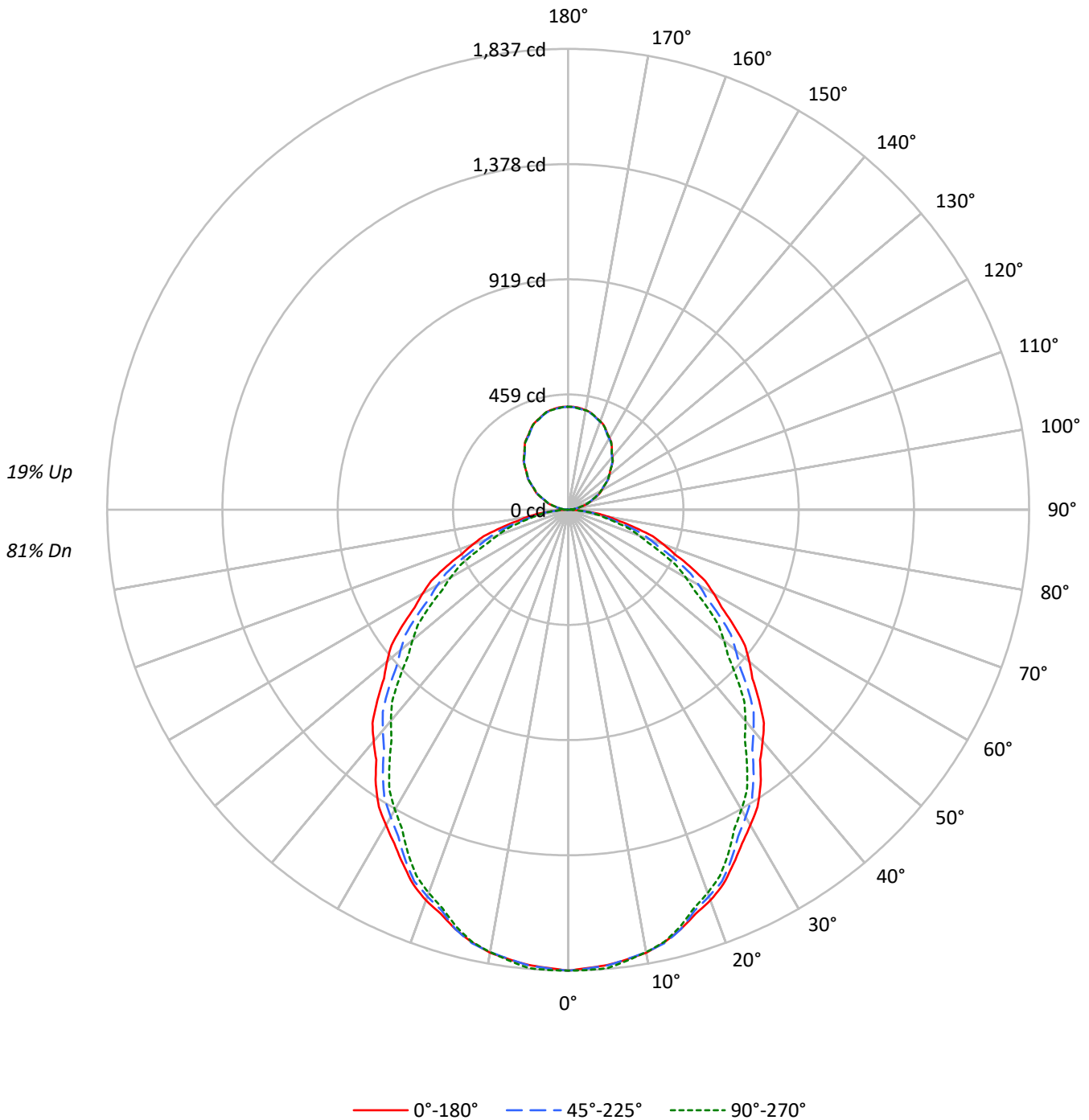
Input Watts (W): 46.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	20789	20789	20789
5°	20692	20706	20828
10°	20601	20571	20571
15°	20286	20286	20163
20°	19956	19752	19576
25°	19449	19205	18862
30°	18973	18479	18036
35°	18473	17788	17158
40°	17807	16959	16226
45°	17203	16222	15220
50°	16583	15342	14240
55°	15907	14491	13307
60°	15177	13611	12254
65°	14323	12610	11143
70°	13339	11440	9928
75°	12092	10037	8839
80°	10543	8418	7819
85°	8127	7114	7114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17203 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.4	3.2
10°-20°	487.1	8.9
20°-30°	707.5	13.0
30°-40°	804.4	14.7
40°-50°	780.9	14.3
50°-60°	659.3	12.1
60°-70°	469.1	8.6
70°-80°	250.6	4.6
80°-90°	66.2	1.2
90°-100°	17.3	0.3
100°-110°	67.8	1.2
110°-120°	120.9	2.2
120°-130°	163.6	3.0
130°-140°	188.1	3.4
140°-150°	188.8	3.5
150°-160°	162.3	3.0
160°-170°	109.9	2.0
170°-180°	38.8	0.7
0°-30°	1368.0	25.1
0°-40°	2172.4	39.8
0°-60°	3612.6	66.2
0°-90°	4398.5	80.6
90°-120°	206.1	3.8
90°-150°	746.6	13.7
90°-180°	1058.0	19.4
0°-180°	5456.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1837	1837	1837	1837	1837	
5°	1822	1845	1823	1821	1834	173
15°	1732	1747	1732	1721	1721	488
25°	1558	1563	1538	1517	1511	718
35°	1337	1325	1288	1250	1242	833
45°	1075	1059	1014	965	951	829
55°	806	785	735	687	675	721
65°	535	516	471	429	416	530
75°	277	261	230	206	202	295
85°	63	58	55	55	55	74
90°	0	0	0	0	0	3
95°	17	15	14	13	13	19
105°	66	66	63	62	62	70
115°	123	124	121	121	120	122
125°	184	186	182	182	182	164
135°	245	247	243	241	244	189
145°	303	306	301	299	302	190
155°	354	357	351	350	353	163
165°	391	394	389	387	391	110
175°	409	413	408	405	406	39
180°	410	410	410	410	410	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1837.4	1837.4	1837.4	1837.4	1837.4
2.5°	1828.1	1846.4	1830.1	1832.3	1836.4
5°	1821.8	1844.8	1823.1	1820.8	1833.8
7.5°	1807.7	1828.6	1806.1	1800.9	1812.4
10°	1793.1	1816.1	1790.5	1784.1	1790.5
12.5°	1767.0	1791.0	1770.6	1760.1	1765.4
15°	1731.8	1747.1	1731.8	1721.3	1721.3
17.5°	1688.7	1704.8	1675.9	1668.5	1665.7
20°	1657.4	1671.4	1640.4	1629.9	1625.8
22.5°	1615.6	1628.6	1602.8	1584.7	1579.8
25°	1557.9	1563.0	1538.3	1517.3	1510.9
27.5°	1500.2	1501.5	1467.6	1442.1	1433.7
30°	1452.2	1453.5	1414.4	1386.8	1380.5
32.5°	1404.2	1400.4	1363.2	1330.5	1326.2
35°	1337.4	1324.6	1287.8	1249.8	1242.2
37.5°	1256.8	1249.1	1205.6	1167.5	1156.0
40°	1205.6	1192.9	1148.2	1110.1	1098.6
42.5°	1154.5	1139.7	1093.9	1051.6	1039.1
45°	1075.1	1058.6	1013.8	965.2	951.2
47.5°	995.3	977.2	928.0	880.9	865.3
50°	942.1	922.9	871.6	825.6	809.0
52.5°	887.8	867.6	816.3	769.3	755.7
55°	806.4	784.7	734.6	687.3	674.6
57.5°	724.9	703.5	653.7	609.0	593.7
60°	670.7	650.2	601.5	556.8	541.5
62.5°	615.3	595.9	548.3	504.6	490.3
65°	535.0	515.8	471.0	429.0	416.2
67.5°	455.4	439.0	394.8	356.2	346.0
70°	403.2	387.9	345.8	310.3	300.1
72.5°	353.1	336.7	296.7	266.5	259.4
75°	276.6	261.3	229.6	206.1	202.2
77.5°	206.7	194.2	166.8	153.4	151.4
80°	161.8	150.3	129.2	120.0	120.0
82.5°	120.0	110.6	96.8	92.9	92.9
85°	62.6	57.5	54.8	54.8	54.8
87.5°	18.8	18.8	17.7	16.7	16.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.5	4.0	2.5	2.0	2.0
95°	16.7	15.1	13.5	12.6	12.9
97.5°	30.8	29.3	27.3	26.4	26.6
100°	40.6	39.4	37.1	36.2	36.2
102.5°	50.2	49.4	47.2	46.3	46.5
105°	65.8	65.5	63.2	62.3	61.7
107.5°	83.0	82.4	80.0	79.9	79.4
110°	94.1	93.8	91.6	91.2	90.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	105.4	105.8	103.4	103.1	102.8
115°	123.3	124.0	121.1	120.8	120.5
117.5°	141.7	142.6	139.6	139.2	138.7
120°	153.5	155.4	151.7	151.3	151.0
122.5°	165.6	167.2	163.7	163.2	163.1
125°	183.8	185.9	182.2	181.6	181.9
127.5°	201.9	204.1	200.6	199.4	200.1
130°	214.0	216.4	212.7	211.5	212.4
132.5°	226.3	228.8	225.0	223.8	225.2
135°	244.8	247.3	243.2	241.4	243.9
137.5°	262.9	265.0	260.6	259.3	261.9
140°	274.7	276.8	272.2	270.7	273.7
142.5°	286.3	288.7	283.5	282.0	285.3
145°	303.3	305.8	300.8	299.3	302.1
147.5°	319.7	322.2	317.2	315.4	318.2
150°	329.7	332.5	327.2	325.7	328.8
152.5°	339.6	342.6	337.0	335.3	339.1
155°	354.0	357.1	351.1	349.7	353.3
157.5°	366.9	369.8	364.4	362.9	366.1
160°	374.7	377.8	372.2	370.7	374.4
162.5°	381.5	384.6	379.5	377.5	381.2
165°	390.8	394.2	388.9	386.8	390.8
167.5°	398.5	402.2	396.6	394.7	398.7
170°	403.1	406.4	400.9	398.4	402.4
172.5°	406.1	409.5	403.9	401.4	404.2
175°	409.4	413.0	407.5	405.0	406.5
177.5°	410.8	413.8	409.3	407.1	410.5
180°	410.3	410.3	410.3	410.3	410.3



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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	20.16	21.36	20.80	22.02	22.77	19.08	20.29	19.73	20.94	21.70
	3H	21.85	22.93	22.51	23.60	24.39	20.52	21.60	21.18	22.27	23.06
	4H	22.50	23.52	23.17	24.19	25.00	21.05	22.07	21.73	22.75	23.55
	6H	22.90	23.84	23.59	24.53	25.35	21.39	22.33	22.08	23.02	23.83
	8H	23.05	23.94	23.75	24.65	25.47	21.52	22.42	22.22	23.13	23.95
	12H	23.12	23.98	23.83	24.68	25.53	21.61	22.46	22.31	23.16	24.01
4H	2H	20.61	21.63	21.29	22.30	23.11	19.75	20.77	20.43	21.45	22.25
	3H	22.53	23.38	23.22	24.09	24.92	21.40	22.25	22.09	22.96	23.79
	4H	23.29	24.06	24.00	24.78	25.63	22.02	22.79	22.73	23.51	24.36
	6H	23.81	24.48	24.54	25.22	26.09	22.45	23.12	23.18	23.86	24.72
	8H	24.01	24.63	24.74	25.38	26.25	22.63	23.25	23.36	23.99	24.87
	12H	24.12	24.68	24.88	25.45	26.33	22.75	23.31	23.50	24.08	24.95
8H	4H	23.45	24.07	24.18	24.81	25.68	22.31	22.93	23.04	23.67	24.55
	6H	24.08	24.60	24.84	25.38	26.26	22.85	23.37	23.61	24.15	25.03
	8H	24.36	24.82	25.13	25.60	26.49	23.10	23.56	23.88	24.35	25.24
	12H	24.54	24.94	25.31	25.72	26.67	23.30	23.70	24.07	24.48	25.43
12H	4H	23.44	24.00	24.19	24.76	25.64	22.33	22.89	23.08	23.65	24.53
	6H	24.10	24.56	24.87	25.34	26.23	22.91	23.37	23.68	24.15	25.05
	8H	24.41	24.82	25.19	25.59	26.55	23.21	23.61	23.98	24.39	25.34