

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: P824346

Luminaire Tested: CB3-D-125U-120D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824346
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-125U-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 1250 LUMENS PER FOOT
Light Source: 80 CRI, 3000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9024.7 lumens
Efficiency: N/A
Efficacy: 119.7 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

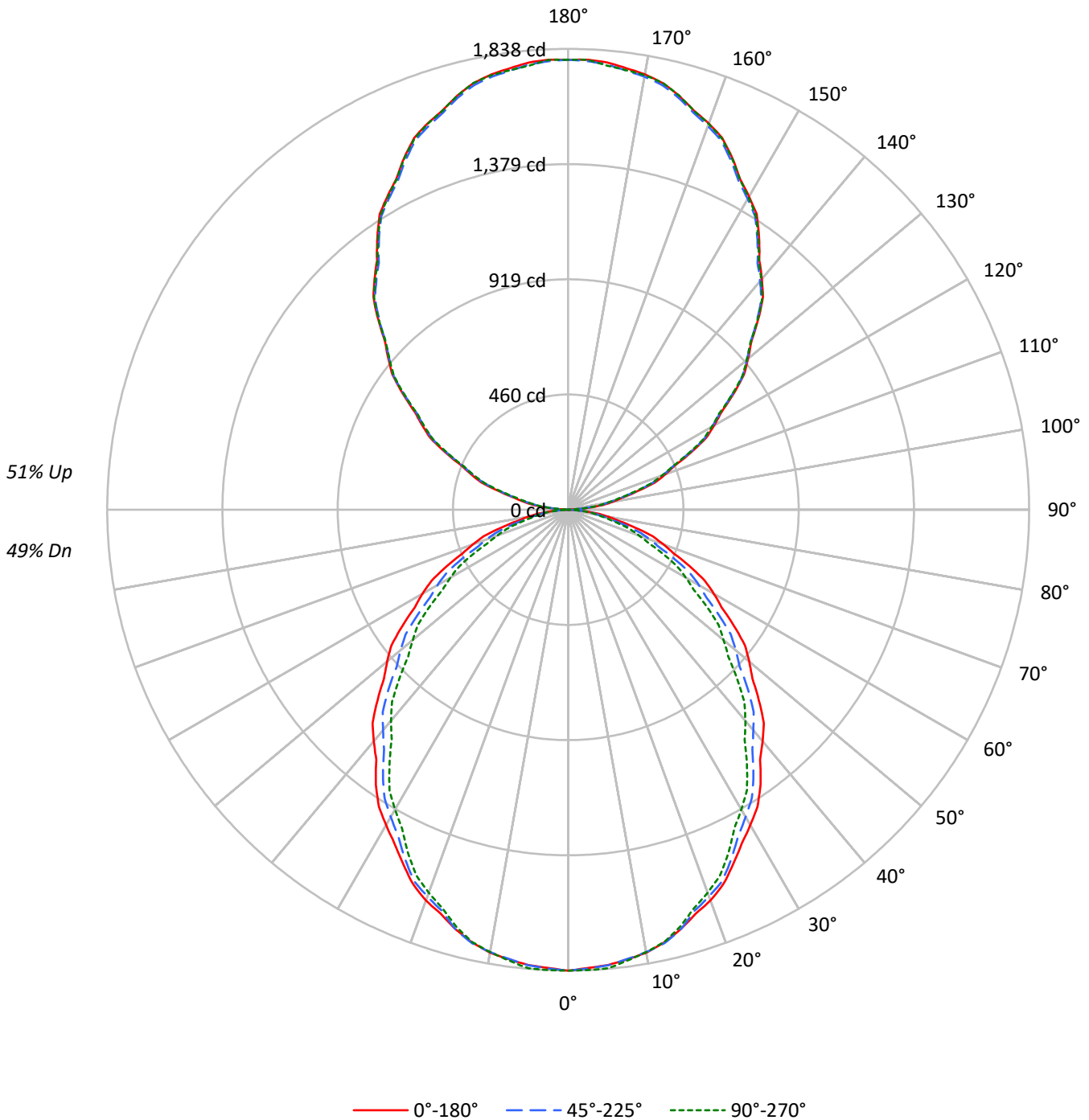
Input Watts (W): 75.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	50	30	10	0														
RCR																																						
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49																				
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41																				
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	40	35																				
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	38	36	34	30																				
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26																				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	22																				
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20																				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18																				
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16																				
9	50	38	31	26	46	36	29	25	31	26	22	26	22	19	22	19	16	14																				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20802	20802	20802
5°	20704	20719	20853
10°	20613	20583	20583
15°	20298	20298	20176
20°	19970	19765	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°	173.5	1.9
10°-20°	487.4	5.4
20°-30°	707.7	7.8
30°-40°	804.4	8.9
40°-50°	780.9	8.7
50°-60°	659.3	7.3
60°-70°	469.1	5.2
70°-80°	250.6	2.8
80°-90°	66.2	0.7
90°-100°	75.8	0.8
100°-110°	296.7	3.3
110°-120°	528.9	5.9
120°-130°	715.7	7.9
130°-140°	822.8	9.1
140°-150°	825.6	9.1
150°-160°	710.0	7.9
160°-170°	480.6	5.3
170°-180°	169.5	1.9
0°-30°	1368.5	15.2
0°-40°	2172.9	24.1
0°-60°	3613.1	40.0
0°-90°	4399.0	48.7
90°-120°	901.4	10.0
90°-150°	3265.5	36.2
90°-180°	4626.0	51.3
0°-180°	9024.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1823	1846	1824	1822	1836	173
15°	1733	1748	1733	1722	1722	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	5
95°	73	66	59	55	56	83
105°	288	286	277	272	270	307
115°	540	542	530	528	527	535
125°	804	813	797	794	795	719
135°	1071	1081	1064	1056	1067	825
145°	1327	1337	1316	1309	1321	829
155°	1548	1562	1536	1529	1546	712
165°	1709	1724	1701	1692	1709	482
175°	1790	1807	1782	1771	1778	170
180°	1795	1795	1795	1795	1795	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1838.5	1838.5	1838.5	1838.5	1838.5
2.5°	1829.1	1847.5	1831.2	1833.4	1837.5
5°	1822.9	1845.8	1824.2	1821.9	1836.0
7.5°	1808.8	1829.7	1807.2	1802.0	1813.5
10°	1794.1	1817.1	1791.5	1785.2	1791.5
12.5°	1768.1	1792.0	1771.7	1761.1	1766.5
15°	1732.8	1748.1	1732.8	1722.4	1722.4
17.5°	1689.8	1705.8	1677.0	1669.6	1666.5
20°	1658.5	1672.5	1641.5	1630.9	1625.8
22.5°	1616.7	1629.7	1603.9	1584.9	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°	19.8	17.7	11.0	8.8	8.8
95°	72.9	66.2	59.2	55.1	56.4
97.5°	134.6	128.1	119.5	115.4	116.4
100°	177.5	172.1	162.4	158.3	158.3
102.5°	219.4	216.1	206.4	202.3	203.4
105°	287.6	286.3	276.6	272.4	269.7
107.5°	363.0	360.6	349.8	349.5	347.1
110°	411.5	410.1	400.5	399.1	397.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	461.0	462.9	452.2	450.8	449.5
115°	539.5	542.2	529.8	528.4	527.1
117.5°	619.8	623.6	610.5	609.1	606.6
120°	671.6	679.7	663.3	661.9	660.6
122.5°	724.4	731.4	716.2	713.7	713.4
125°	803.7	813.1	796.8	794.1	795.4
127.5°	883.0	892.7	877.5	872.0	875.0
130°	935.8	946.6	930.3	924.9	928.9
132.5°	989.8	1000.5	984.3	978.9	985.1
135°	1070.7	1081.4	1063.8	1055.8	1066.6
137.5°	1149.7	1159.1	1139.8	1134.2	1145.5
140°	1201.4	1210.8	1190.4	1183.8	1197.3
142.5°	1252.1	1262.6	1240.0	1233.4	1247.9
145°	1326.7	1337.4	1315.6	1309.0	1321.2
147.5°	1398.2	1409.3	1387.2	1379.5	1391.9
150°	1442.3	1454.4	1431.2	1424.7	1438.1
152.5°	1485.2	1498.4	1474.2	1466.6	1483.3
155°	1548.2	1561.7	1535.8	1529.3	1545.5
157.5°	1604.9	1617.3	1593.9	1587.4	1601.3
160°	1639.1	1652.5	1628.0	1621.5	1637.7
162.5°	1668.8	1682.2	1660.0	1651.3	1667.4
165°	1709.2	1724.0	1701.0	1691.7	1709.2
167.5°	1743.1	1759.0	1734.6	1726.2	1743.6
170°	1762.9	1777.7	1753.3	1742.7	1760.2
172.5°	1776.1	1790.9	1766.5	1755.8	1767.9
175°	1790.4	1806.6	1782.2	1771.3	1778.1
177.5°	1796.8	1809.7	1790.2	1780.6	1795.7
180°	1794.6	1794.6	1794.6	1794.6	1794.6



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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	17.57	18.41	18.54	19.39	20.68	16.49	17.33	17.46	18.32	19.61
	3H	19.24	19.99	20.22	20.98	22.29	17.91	18.66	18.89	19.65	20.96
	4H	19.87	20.58	20.86	21.57	22.89	18.42	19.13	19.42	20.13	21.45
	6H	20.25	20.91	21.26	21.91	23.24	18.74	19.39	19.74	20.40	21.73
	8H	20.39	21.01	21.40	22.03	23.36	18.86	19.49	19.87	20.50	21.83
	12H	20.45	21.05	21.47	22.06	23.41	18.94	19.53	19.95	20.54	21.89
4H	2H	17.98	18.69	18.98	19.69	21.01	17.12	17.83	18.12	18.83	20.15
	3H	19.87	20.46	20.88	21.48	22.82	18.74	19.33	19.75	20.35	21.69
	4H	20.61	21.16	21.63	22.17	23.53	19.34	19.88	20.36	20.90	22.26
	6H	21.11	21.58	22.14	22.62	23.98	19.75	20.22	20.78	21.26	22.61
	8H	21.31	21.74	22.34	22.77	24.14	19.92	20.36	20.95	21.39	22.76
	12H	21.40	21.80	22.45	22.84	24.22	20.03	20.42	21.08	21.47	22.84
8H	4H	20.74	21.18	21.77	22.21	23.58	19.60	20.04	20.63	21.07	22.44
	6H	21.36	21.72	22.41	22.79	24.16	20.13	20.49	21.18	21.56	22.93
	8H	21.64	21.95	22.70	23.01	24.40	20.38	20.70	21.44	21.76	23.14
	12H	21.80	22.08	22.86	23.13	24.56	20.56	20.84	21.62	21.89	23.32
12H	4H	20.71	21.11	21.76	22.15	23.53	19.60	20.00	20.65	21.04	22.42
	6H	21.38	21.69	22.44	22.75	24.14	20.19	20.50	21.25	21.56	22.95
	8H	21.67	21.95	22.74	23.01	24.44	20.47	20.75	21.53	21.80	23.23