

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: P824250

Luminaire Tested: CB2-D-125U-120D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824250
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-13, G2-2312-242-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB2-D-125U-120D-830-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
2-INCH APERTURE
DOWNLIGHT 1200 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 80 CRI, 3000K CCT LEDS
Ballast/Driver: -

Summary

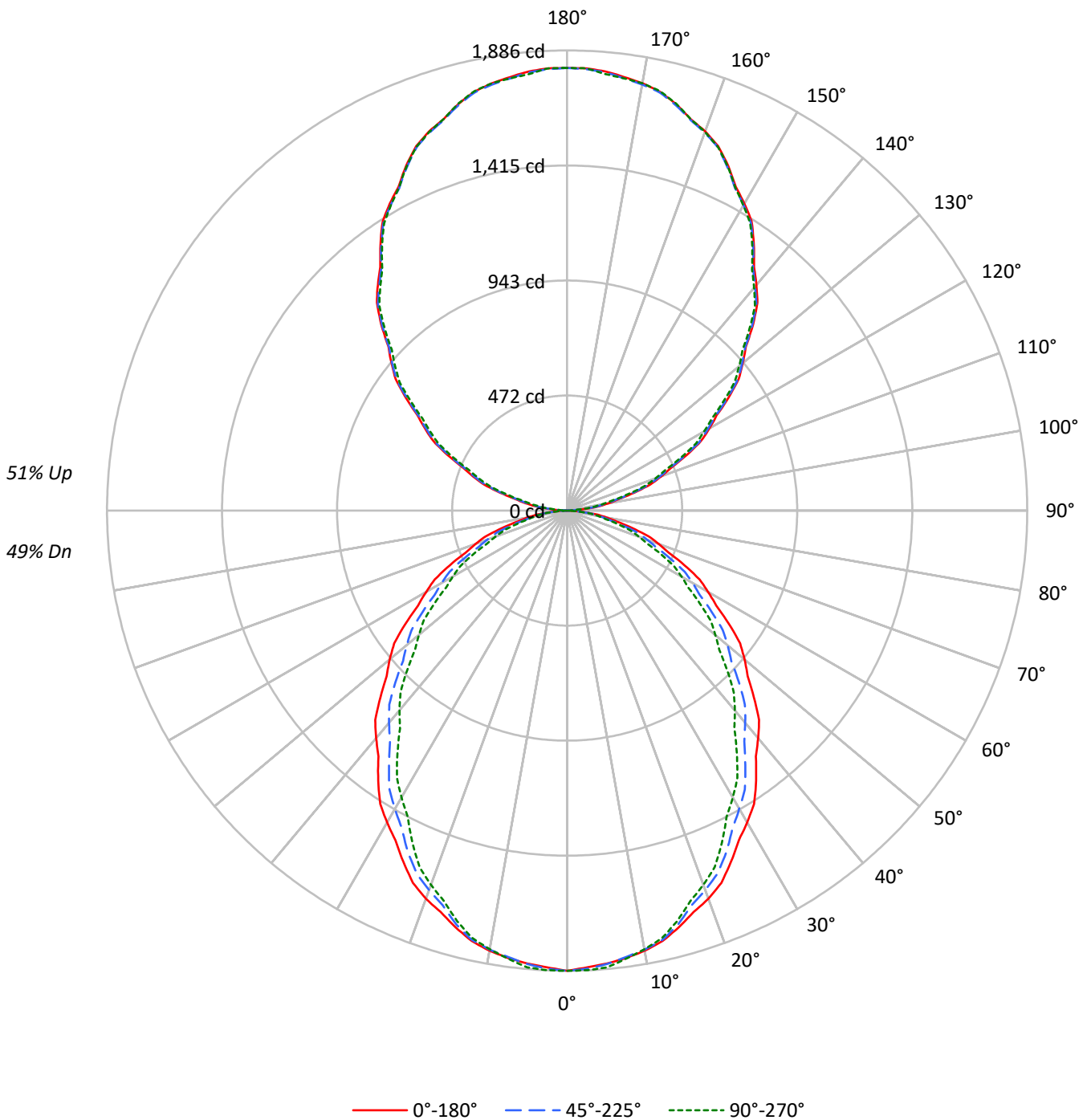
Lumens per Lamp: N/A
Luminaire Lumens: 9025.1 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.3
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49				49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41				41
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	40	35				35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	38	36	34	30				30
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26				26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	22				22
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20				20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				18
8	54	42	34	29	50	39	32	28	34	28	24	29	24	21	24	21	18	16				16
9	51	38	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14				14
10	47	35	28	23	44	33	26	22	29	23	20	24	20	17	20	17	15	13				13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32854	32854	32854
5°	32576	32627	32854
10°	32390	32314	32289
15°	31878	31669	31410
20°	31376	30679	30251
25°	30533	29672	28840
30°	29687	28380	27306
35°	28715	27057	25766
40°	27684	25813	24301
45°	26647	24514	22876
50°	25712	23246	21485
55°	24560	21930	20175
60°	23245	20678	18866
65°	21847	19288	17561
70°	20299	17727	15889
75°	18466	16037	14388
80°	16520	14052	13039
85°	12710	11551	9532

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26647 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	2.0
10°-20°	494.5	5.5
20°-30°	711.0	7.9
30°-40°	799.1	8.9
40°-50°	771.9	8.6
50°-60°	652.2	7.2
60°-70°	468.5	5.2
70°-80°	256.1	2.8
80°-90°	68.1	0.8
90°-100°	70.1	0.8
100°-110°	289.0	3.2
110°-120°	524.7	5.8
120°-130°	714.0	7.9
130°-140°	824.2	9.1
140°-150°	830.5	9.2
150°-160°	716.7	7.9
160°-170°	485.8	5.4
170°-180°	171.4	1.9
0°-30°	1382.8	15.3
0°-40°	2182.0	24.2
0°-60°	3606.1	40.0
0°-90°	4398.8	48.7
90°-120°	883.8	9.8
90°-150°	3252.4	36.0
90°-180°	4626.0	51.3
0°-180°	9025.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1886	1886	1886	1886	1886	
5°	1863	1889	1866	1866	1879	177
15°	1768	1783	1756	1739	1742	498
25°	1589	1590	1544	1509	1501	731
35°	1350	1335	1272	1223	1212	844
45°	1082	1059	995	943	929	836
55°	809	779	722	677	664	723
65°	530	510	468	435	426	526
75°	274	258	238	219	214	294
85°	64	59	58	50	48	76
90°	0	0	1	0	1	5
95°	68	60	57	44	44	79
105°	286	282	274	259	256	303
115°	543	542	532	516	515	536
125°	808	816	800	782	784	721
135°	1077	1089	1071	1052	1058	829
145°	1334	1350	1329	1313	1323	834
155°	1561	1576	1554	1544	1556	718
165°	1725	1743	1721	1711	1726	486
175°	1807	1826	1803	1792	1796	171
180°	1814	1814	1814	1814	1814	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1886.3	1886.3	1886.3	1886.3	1886.3
2.5°	1873.6	1896.2	1879.4	1881.8	1885.2
5°	1863.2	1888.6	1866.1	1866.4	1879.1
7.5°	1849.9	1873.9	1845.6	1840.4	1852.2
10°	1831.4	1855.4	1827.1	1817.2	1825.7
12.5°	1807.2	1830.0	1802.8	1787.1	1794.5
15°	1767.9	1783.4	1756.3	1739.1	1741.9
17.5°	1725.1	1734.7	1695.7	1681.2	1678.3
20°	1692.8	1701.2	1655.2	1634.9	1632.1
22.5°	1651.2	1658.5	1610.2	1585.2	1581.3
25°	1588.8	1590.2	1544.0	1509.1	1500.7
27.5°	1523.5	1519.0	1467.7	1426.5	1415.5
30°	1476.1	1470.5	1411.1	1367.6	1357.7
32.5°	1425.3	1415.1	1355.7	1308.6	1298.8
35°	1350.5	1334.9	1272.5	1223.1	1211.8
37.5°	1270.7	1253.2	1191.9	1138.1	1125.4
40°	1217.6	1197.8	1135.3	1081.5	1068.8
42.5°	1164.4	1142.4	1078.6	1024.9	1011.0
45°	1081.8	1059.2	995.2	942.8	928.7
47.5°	1003.2	974.4	912.2	860.2	846.1
50°	948.9	917.9	857.9	807.1	792.9
52.5°	893.5	861.3	803.6	755.1	740.9
55°	808.8	779.2	722.2	677.1	664.4
57.5°	725.1	696.5	644.5	601.4	589.0
60°	667.3	643.3	593.6	552.9	541.6
62.5°	611.8	590.1	542.8	505.6	494.3
65°	530.1	510.3	468.0	434.6	426.1
67.5°	450.6	430.9	396.6	366.6	357.0
70°	398.6	378.9	348.1	320.5	312.0
72.5°	349.0	328.1	303.0	277.8	271.5
75°	274.4	257.5	238.3	219.4	213.8
77.5°	208.6	192.2	178.2	164.9	163.5
80°	164.7	150.5	140.1	131.4	130.0
82.5°	123.1	112.3	105.4	99.1	98.8
85°	63.6	59.3	57.8	50.5	47.7
87.5°	18.5	18.5	16.5	13.9	14.1
90°	0.0	0.0	1.4	0.0	1.4
92.5°	17.0	14.8	13.9	9.1	10.5
95°	67.9	59.6	56.6	43.9	43.9
97.5°	128.2	119.9	115.5	102.4	99.6
100°	171.2	162.9	158.5	144.3	141.5
102.5°	215.4	211.5	203.8	188.4	185.6
105°	285.8	281.7	274.5	258.9	256.1
107.5°	358.3	359.1	348.4	335.5	331.7
110°	410.3	409.0	400.4	387.6	384.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	463.5	461.1	452.5	439.7	436.9
115°	543.4	542.0	532.0	516.4	515.1
117.5°	619.2	623.6	611.8	595.4	594.9
120°	673.5	679.1	665.0	650.8	648.1
122.5°	726.7	733.4	719.4	703.0	703.5
125°	808.0	816.3	799.5	782.5	783.9
127.5°	886.3	896.6	881.0	863.7	865.4
130°	939.6	952.0	935.3	917.0	919.7
132.5°	993.9	1006.3	989.6	970.2	975.2
135°	1076.8	1089.3	1071.1	1051.5	1058.4
137.5°	1154.9	1167.4	1147.6	1131.0	1139.3
140°	1207.0	1219.4	1198.5	1183.1	1191.4
142.5°	1257.9	1272.6	1250.6	1234.1	1244.6
145°	1334.3	1349.5	1328.7	1313.3	1323.0
147.5°	1406.8	1422.0	1400.8	1386.1	1396.0
150°	1453.2	1468.4	1446.1	1433.6	1444.7
152.5°	1496.2	1513.6	1490.3	1477.9	1492.2
155°	1560.7	1575.9	1553.7	1544.0	1556.5
157.5°	1616.8	1634.5	1612.2	1604.0	1613.9
160°	1654.1	1670.7	1648.5	1640.2	1651.3
162.5°	1682.4	1700.1	1679.0	1669.7	1683.0
165°	1724.9	1742.9	1720.6	1711.1	1726.3
167.5°	1758.3	1777.4	1754.9	1745.0	1760.5
170°	1778.6	1796.6	1773.0	1762.0	1778.6
172.5°	1792.2	1811.3	1786.6	1775.5	1786.6
175°	1806.9	1826.3	1802.7	1791.5	1795.6
177.5°	1814.0	1829.5	1810.6	1800.7	1814.0
180°	1814.0	1814.0	1814.0	1814.0	1814.0



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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	19.01	19.85	19.98	20.84	22.13	17.92	18.75	18.89	19.74	21.03
	3H	20.66	21.41	21.64	22.40	23.71	19.44	20.19	20.42	21.18	22.50
	4H	21.29	22.00	22.28	22.99	24.31	20.01	20.72	21.01	21.72	23.04
	6H	21.69	22.34	22.69	23.34	24.68	20.38	21.04	21.39	22.04	23.37
	8H	21.84	22.46	22.85	23.48	24.81	20.52	21.15	21.54	22.16	23.49
	12H	21.91	22.50	22.93	23.51	24.87	20.59	21.18	21.60	22.19	23.54
4H	2H	19.42	20.13	20.42	21.13	22.45	18.55	19.26	19.55	20.25	21.57
	3H	21.29	21.88	22.30	22.91	24.24	20.28	20.87	21.29	21.90	23.23
	4H	22.03	22.58	23.05	23.59	24.95	20.95	21.50	21.97	22.51	23.87
	6H	22.55	23.02	23.58	24.06	25.41	21.43	21.89	22.46	22.93	24.29
	8H	22.76	23.19	23.79	24.23	25.59	21.62	22.05	22.65	23.09	24.45
	12H	22.86	23.26	23.91	24.30	25.68	21.70	22.10	22.75	23.15	24.52
8H	4H	22.19	22.62	23.22	23.66	25.03	21.22	21.66	22.25	22.69	24.06
	6H	22.83	23.19	23.88	24.26	25.63	21.83	22.19	22.88	23.26	24.63
	8H	23.12	23.44	24.18	24.50	25.88	22.10	22.42	23.16	23.48	24.87
	12H	23.29	23.57	24.36	24.63	26.05	22.25	22.53	23.32	23.59	25.01
12H	4H	22.17	22.56	23.22	23.61	24.98	21.23	21.62	22.27	22.67	24.04
	6H	22.86	23.18	23.92	24.24	25.62	21.89	22.21	22.95	23.27	24.65
	8H	23.17	23.45	24.24	24.51	25.94	22.20	22.47	23.26	23.53	24.96