

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: P824343

Luminaire Tested: CB3-D-125U-085D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824343
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-085D-830-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
3-INCH APERTURE
DOWNLIGHT 850 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: 7716.1 lumens
Efficiency: N/A
Efficacy: 122.7 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

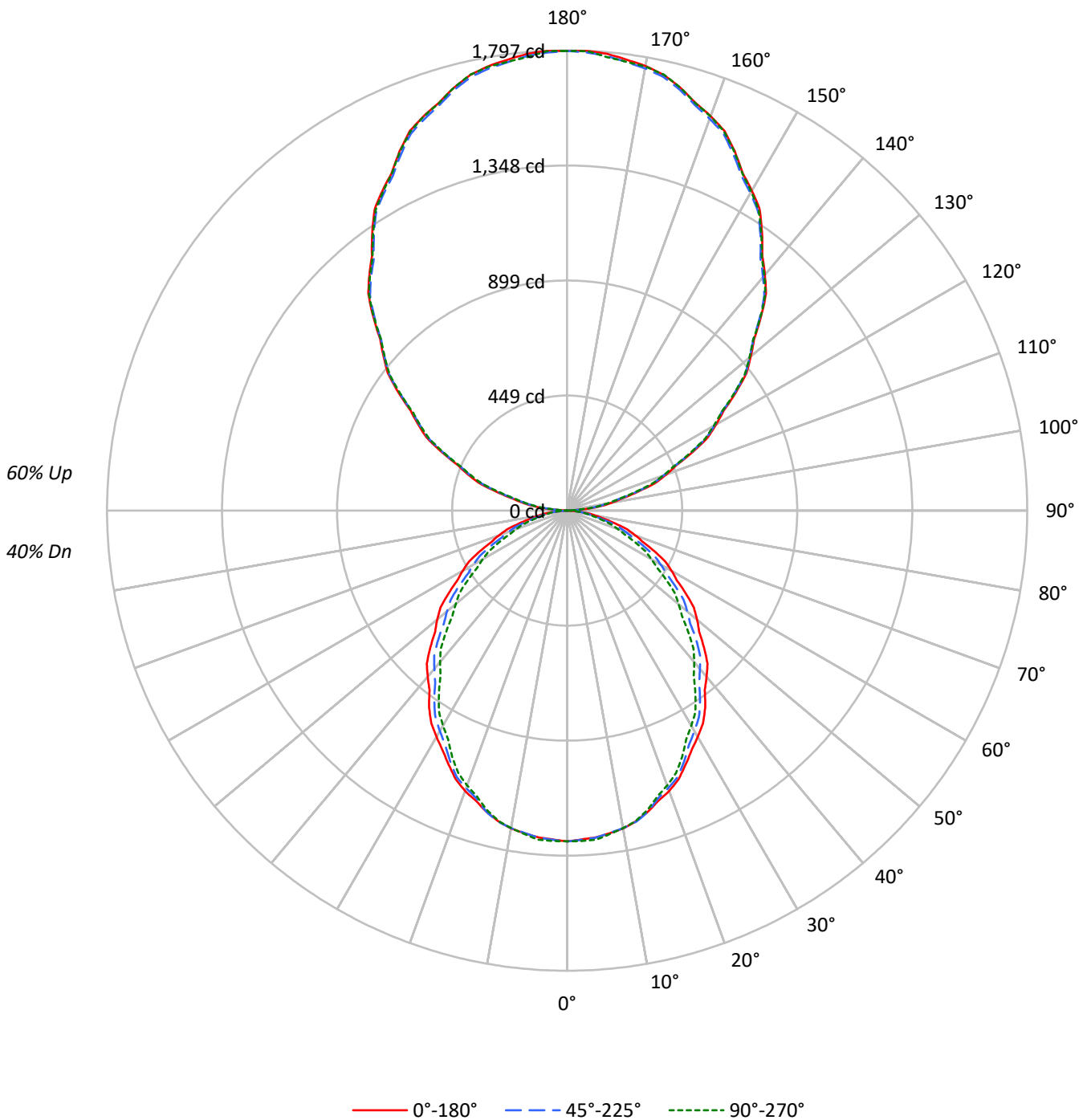
Input Watts (W): 62.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40
1	96	92	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	46	43	37	35	34	29
3	80	70	63	58	72	64	58	53	53	49	45	43	39	37	33	31	29	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	32	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	27	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	18	15	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14617	14617	14617
5°	14548	14558	14657
10°	14484	14464	14464
15°	14264	14264	14177
20°	14032	13889	13750
25°	13663	13490	13251
30°	13328	12981	12669
35°	12977	12496	12053
40°	12509	11914	11400
45°	12086	11396	10692
50°	11649	10778	10003
55°	11173	10179	9348
60°	10661	9561	8608
65°	10061	8859	7828
70°	9369	8036	6974
75°	8494	7051	6212
80°	7408	5910	5493
85°	5712	4998	4998

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12086 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	1.6
10°-20°	342.5	4.4
20°-30°	497.2	6.4
30°-40°	565.1	7.3
40°-50°	548.6	7.1
50°-60°	463.1	6.0
60°-70°	329.5	4.3
70°-80°	176.1	2.3
80°-90°	46.5	0.6
90°-100°	75.8	1.0
100°-110°	296.7	3.8
110°-120°	528.9	6.9
120°-130°	715.7	9.3
130°-140°	822.8	10.7
140°-150°	825.6	10.7
150°-160°	710.0	9.2
160°-170°	480.6	6.2
170°-180°	169.5	2.2
0°-30°	961.5	12.5
0°-40°	1526.6	19.8
0°-60°	2538.3	32.9
0°-90°	3090.4	40.1
90°-120°	901.4	11.7
90°-150°	3265.5	42.3
90°-180°	4626.0	60.0
0°-180°	7716.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1292	1292	1292	1292	1292	
5°	1281	1297	1282	1280	1290	122
15°	1218	1228	1218	1210	1210	343
25°	1094	1098	1081	1066	1061	504
35°	940	930	905	878	873	585
45°	755	744	712	678	668	583
55°	566	551	516	483	474	506
65°	376	362	331	301	292	372
75°	194	184	161	145	142	207
85°	44	40	38	38	38	52
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°	1291.9	1291.9	1291.9	1291.9	1291.9
2.5°	1285.3	1298.2	1286.8	1288.3	1291.2
5°	1280.9	1297.0	1281.8	1280.2	1290.5
7.5°	1271.0	1285.7	1269.9	1266.2	1274.3
10°	1260.7	1276.9	1258.9	1254.4	1258.9
12.5°	1242.4	1259.3	1245.0	1237.5	1241.3
15°	1217.7	1228.4	1217.7	1210.3	1210.3
17.5°	1187.4	1198.7	1178.4	1173.3	1171.0
20°	1165.4	1175.3	1153.5	1146.1	1142.0
22.5°	1136.1	1145.2	1127.1	1113.5	1109.8
25°	1094.4	1098.0	1080.6	1065.9	1061.4
27.5°	1053.9	1054.8	1031.0	1013.0	1007.1
30°	1020.1	1021.0	993.6	974.2	969.7
32.5°	986.4	983.7	957.6	934.6	931.6
35°	939.5	930.5	904.7	878.0	872.6
37.5°	882.8	877.5	846.9	820.1	812.1
40°	846.9	837.9	806.6	779.8	771.8
42.5°	811.0	800.6	768.5	738.7	730.0
45°	755.3	743.6	712.2	678.0	668.2
47.5°	699.2	686.4	651.9	618.8	607.9
50°	661.8	648.3	612.3	579.9	568.3
52.5°	623.6	609.5	573.4	540.4	530.9
55°	566.4	551.2	516.0	482.8	473.9
57.5°	509.2	494.2	459.2	427.8	417.0
60°	471.1	456.8	422.5	391.1	380.4
62.5°	432.3	418.6	385.1	354.5	344.4
65°	375.8	362.4	330.9	301.3	292.4
67.5°	319.9	308.4	277.4	250.2	243.1
70°	283.2	272.5	242.9	218.0	210.8
72.5°	248.0	236.6	208.4	187.2	182.2
75°	194.3	183.6	161.3	144.8	142.1
77.5°	145.2	136.4	117.1	107.8	106.3
80°	113.7	105.6	90.7	84.3	84.3
82.5°	84.3	77.7	68.0	65.3	65.3
85°	44.0	40.4	38.5	38.5	38.5
87.5°	13.2	13.2	12.5	11.7	11.7
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	15.47	16.24	16.51	17.28	18.69	14.39	15.16	15.43	16.20	17.61
	3H	17.13	17.81	18.18	18.87	20.30	15.79	16.48	16.84	17.54	18.96
	4H	17.75	18.41	18.81	19.46	20.89	16.31	16.96	17.37	18.02	19.45
	6H	18.13	18.73	19.20	19.79	21.24	16.62	17.22	17.69	18.28	19.73
	8H	18.27	18.84	19.34	19.91	21.35	16.74	17.31	17.82	18.39	19.83
	12H	18.33	18.87	19.41	19.94	21.41	16.81	17.36	17.89	18.43	19.89
4H	2H	15.86	16.52	16.93	17.57	19.01	15.00	15.66	16.07	16.71	18.15
	3H	17.74	18.29	18.82	19.37	20.82	16.61	17.16	17.69	18.24	19.69
	4H	18.49	18.99	19.57	20.06	21.53	17.22	17.72	18.30	18.79	20.26
	6H	18.99	19.41	20.08	20.51	21.97	17.62	18.05	18.71	19.15	20.61
	8H	19.18	19.58	20.27	20.66	22.14	17.79	18.19	18.88	19.28	20.76
	12H	19.27	19.63	20.38	20.73	22.22	17.89	18.26	19.00	19.36	20.84
8H	4H	18.61	19.01	19.70	20.10	21.58	17.47	17.87	18.56	18.96	20.44
	6H	19.23	19.56	20.34	20.69	22.16	18.00	18.33	19.11	19.46	20.93
	8H	19.50	19.79	20.62	20.90	22.40	18.25	18.54	19.37	19.65	21.15
	12H	19.66	19.92	20.78	21.02	22.56	18.42	18.67	19.54	19.78	21.32
12H	4H	18.58	18.94	19.69	20.04	21.53	17.47	17.83	18.58	18.93	20.42
	6H	19.24	19.53	20.36	20.64	22.14	18.05	18.34	19.17	19.46	20.95
	8H	19.54	19.79	20.66	20.90	22.43	18.33	18.59	19.45	19.69	21.23