

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: P824247

Luminaire Tested: CB2-D-125U-085D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824247
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-085D-830-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
2-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: 7716.3 lumens
Efficiency: N/A
Efficacy: 113.8 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

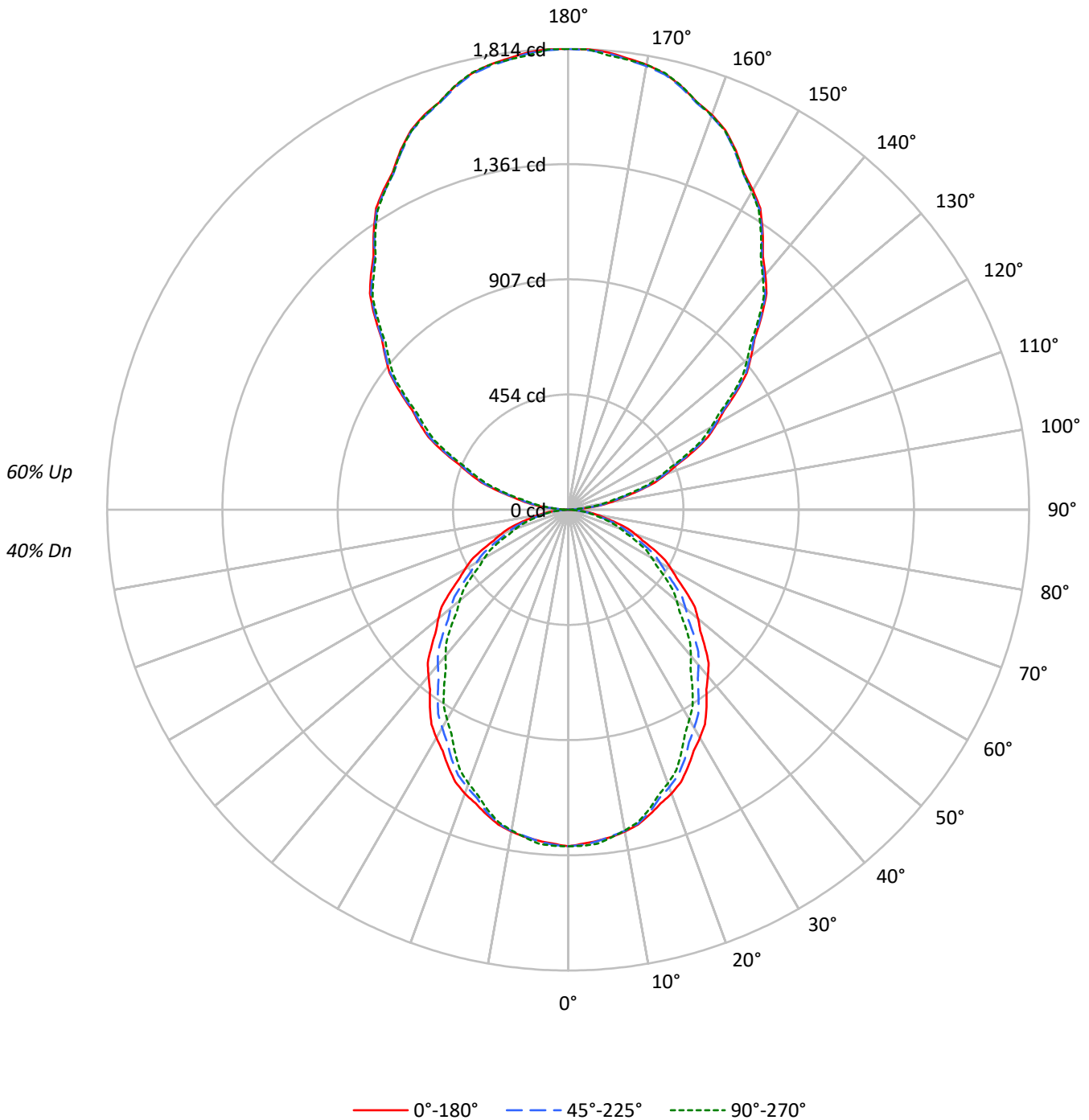
Input Watts (W): 67.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P824247

CATALOG NUMBER: CB2-D-125U-085D-830-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P824247

CATALOG NUMBER: CB2-D-125U-085D-830-1D-UNV-STD-W-4

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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40																				
1	96	91	88	84	87	83	80	77	68	66	64	54	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	25																				
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	35	30	35	29	25	28	24	21	22	19	17	15																				
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	18	16	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	32	25	21	27	22	18	22	18	15	17	15	13	11																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23080	23080	23080
5°	22883	22920	23079
10°	22753	22700	22682
15°	22394	22248	22064
20°	22040	21551	21251
25°	21449	20844	20260
30°	20854	19937	19181
35°	20172	19007	18101
40°	19447	18133	17071
45°	18718	17220	16070
50°	18063	16331	15093
55°	17254	15405	14172
60°	16327	14526	13255
65°	15348	13547	12335
70°	14259	12451	11163
75°	12975	11265	10108
80°	11605	9870	9158
85°	8913	8114	6695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18718 cd/sqm



TEST NUMBER: P824247

CATALOG NUMBER: CB2-D-125U-085D-830-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.6	1.6
10°-20°	347.4	4.5
20°-30°	499.4	6.5
30°-40°	561.4	7.3
40°-50°	542.3	7.0
50°-60°	458.2	5.9
60°-70°	329.1	4.3
70°-80°	179.9	2.3
80°-90°	47.9	0.6
90°-100°	70.1	0.9
100°-110°	289.0	3.7
110°-120°	524.7	6.8
120°-130°	714.0	9.3
130°-140°	824.2	10.7
140°-150°	830.5	10.8
150°-160°	716.7	9.3
160°-170°	485.8	6.3
170°-180°	171.4	2.2
0°-30°	971.4	12.6
0°-40°	1532.8	19.9
0°-60°	2533.2	32.8
0°-90°	3090.0	40.0
90°-120°	883.8	11.5
90°-150°	3252.4	42.2
90°-180°	4626.0	60.0
0°-180°	7716.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1325	1325	1325	1325	1325	
5°	1309	1327	1311	1311	1320	124
15°	1242	1253	1234	1222	1224	350
25°	1116	1117	1085	1060	1054	514
35°	949	938	894	859	851	593
45°	760	744	699	662	652	587
55°	568	547	507	476	467	508
65°	372	358	329	305	299	369
75°	193	181	167	154	150	206
85°	45	42	41	36	34	53
90°	0	0	1	0	1	4
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	

TEST NUMBER: P824247

CATALOG NUMBER: CB2-D-125U-085D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1325.1	1325.1	1325.1	1325.1	1325.1
2.5°	1316.1	1332.0	1320.2	1321.9	1324.3
5°	1308.8	1326.7	1310.9	1311.1	1320.0
7.5°	1299.5	1316.4	1296.5	1292.8	1301.1
10°	1286.5	1303.4	1283.5	1276.5	1282.5
12.5°	1269.5	1285.5	1266.4	1255.4	1260.5
15°	1241.9	1252.8	1233.8	1221.6	1223.6
17.5°	1211.8	1218.6	1191.1	1181.0	1179.0
20°	1189.1	1195.1	1162.7	1148.5	1146.5
22.5°	1159.9	1165.1	1131.1	1113.6	1110.8
25°	1116.1	1117.1	1084.6	1060.1	1054.2
27.5°	1070.2	1067.0	1031.0	1002.1	994.3
30°	1036.9	1033.0	991.3	960.7	953.7
32.5°	1001.2	994.1	952.3	919.3	912.3
35°	948.7	937.7	893.9	859.2	851.3
37.5°	892.7	880.3	837.3	799.5	790.6
40°	855.3	841.4	797.5	759.7	750.8
42.5°	818.0	802.5	757.7	719.9	710.2
45°	759.9	744.1	699.1	662.3	652.4
47.5°	704.7	684.5	640.8	604.3	594.4
50°	666.6	644.8	602.7	566.9	557.0
52.5°	627.6	605.0	564.5	530.4	520.5
55°	568.2	547.3	507.3	475.6	466.7
57.5°	509.3	489.3	452.7	422.5	413.8
60°	468.7	451.9	417.0	388.4	380.5
62.5°	429.8	414.5	381.3	355.1	347.2
65°	372.4	358.5	328.7	305.3	299.3
67.5°	316.6	302.7	278.6	257.6	250.8
70°	280.0	266.1	244.5	225.1	219.2
72.5°	245.1	230.4	212.9	195.1	190.7
75°	192.8	180.9	167.4	154.1	150.2
77.5°	146.5	135.0	125.2	115.8	114.9
80°	115.7	105.7	98.4	92.3	91.3
82.5°	86.4	78.9	74.1	69.6	69.4
85°	44.6	41.7	40.6	35.5	33.5
87.5°	13.0	13.0	11.6	9.7	10.0
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



TEST NUMBER: P824247

CATALOG NUMBER: CB2-D-125U-085D-830-1D-UNV-STD-W-4

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



TEST NUMBER: P824247
 CATALOG NUMBER: CB2-D-125U-085D-830-1D-UNV-STD-W-4

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	16.91	17.68	17.95	18.72	20.13	15.81	16.58	16.85	17.62	19.03
	3H	18.55	19.24	19.60	20.29	21.72	17.33	18.02	18.38	19.07	20.50
	4H	19.17	19.82	20.23	20.88	22.31	17.90	18.55	18.96	19.61	21.04
	6H	19.57	20.17	20.64	21.23	22.67	18.27	18.87	19.34	19.93	21.37
	8H	19.71	20.29	20.79	21.36	22.80	18.40	18.97	19.48	20.05	21.49
	12H	19.78	20.33	20.87	21.40	22.86	18.46	19.01	19.54	20.08	21.54
4H	2H	17.31	17.96	18.37	19.01	20.45	16.43	17.08	17.50	18.14	19.57
	3H	19.17	19.71	20.24	20.79	22.24	18.16	18.70	19.23	19.79	21.23
	4H	19.91	20.41	20.99	21.48	22.95	18.83	19.33	19.91	20.40	21.87
	6H	20.42	20.85	21.51	21.95	23.41	19.30	19.73	20.39	20.82	22.29
	8H	20.63	21.03	21.72	22.12	23.59	19.49	19.89	20.58	20.98	22.45
	12H	20.73	21.09	21.84	22.19	23.67	19.57	19.93	20.68	21.03	22.52
8H	4H	20.06	20.46	21.15	21.55	23.03	19.09	19.49	20.18	20.58	22.06
	6H	20.70	21.03	21.81	22.16	23.63	19.70	20.03	20.81	21.16	22.63
	8H	20.99	21.28	22.11	22.39	23.88	19.97	20.26	21.09	21.37	22.87
	12H	21.16	21.41	22.28	22.52	24.05	20.12	20.37	21.24	21.48	23.01
12H	4H	20.03	20.40	21.14	21.50	22.98	19.09	19.46	20.20	20.56	22.04
	6H	20.72	21.01	21.84	22.13	23.62	19.76	20.05	20.88	21.16	22.65
	8H	21.04	21.29	22.16	22.40	23.93	20.06	20.31	21.18	21.42	22.95