

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: P824209

Luminaire Tested: CB2-D-085U-055D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824209
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-085U-055D-835-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
2-INCH APERTURE
DOWNLIGHT 550 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5570.3 lumens
Efficiency: N/A
Efficacy: 129.5 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: Semi-Indirect

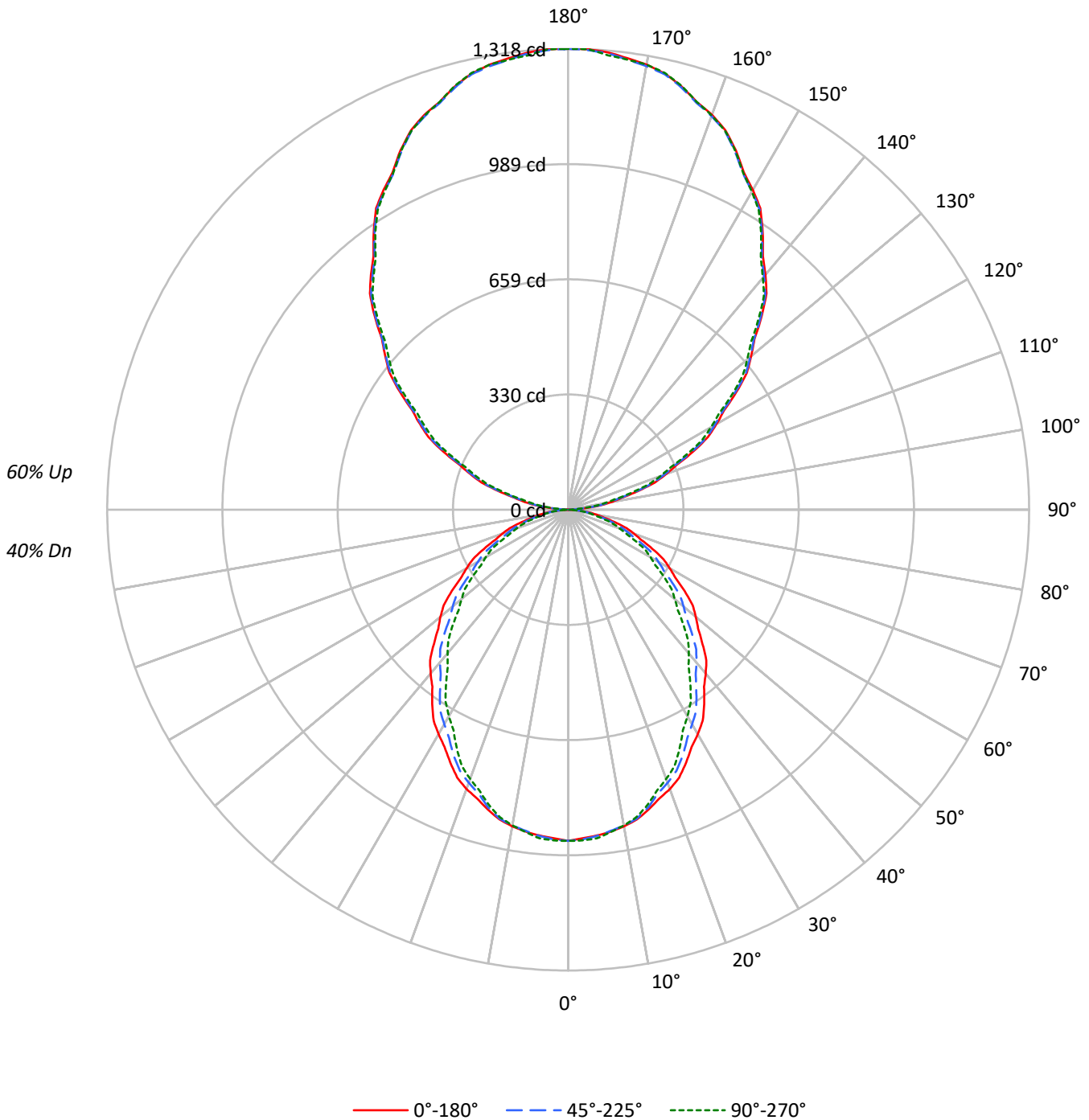
Input Watts (W): 43
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P824209

CATALOG NUMBER: CB2-D-085U-055D-835-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P824209

CATALOG NUMBER: CB2-D-085U-055D-835-1D-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	61	61	61	47	47	47	40																				
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34																				
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	37	35	34	28																				
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	33	30	29	24																				
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21																				
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	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	17	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	26	22	18	22	18	15	17	15	13	11																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16496	16496	16496
5°	16356	16382	16496
10°	16264	16225	16213
15°	16007	15902	15771
20°	15755	15405	15190
25°	15330	14900	14481
30°	14907	14249	13710
35°	14418	13585	12938
40°	13901	12960	12203
45°	13380	12309	11486
50°	12912	11673	10787
55°	12332	11011	10130
60°	11673	10384	9475
65°	10971	9685	8815
70°	10195	8902	7975
75°	9273	8055	7221
80°	8295	7051	6550
85°	6375	5795	4776

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13380 cd/sqm



TEST NUMBER: P824209

CATALOG NUMBER: CB2-D-085U-055D-835-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	1.6
10°-20°	248.3	4.5
20°-30°	357.0	6.4
30°-40°	401.2	7.2
40°-50°	387.6	7.0
50°-60°	327.5	5.9
60°-70°	235.2	4.2
70°-80°	128.6	2.3
80°-90°	34.2	0.6
90°-100°	50.9	0.9
100°-110°	210.0	3.8
110°-120°	381.2	6.8
120°-130°	518.8	9.3
130°-140°	598.9	10.8
140°-150°	603.5	10.8
150°-160°	520.8	9.3
160°-170°	353.0	6.3
170°-180°	124.5	2.2
0°-30°	694.3	12.5
0°-40°	1095.6	19.7
0°-60°	1810.7	32.5
0°-90°	2208.7	39.7
90°-120°	642.2	11.5
90°-150°	2363.3	42.4
90°-180°	3362.0	60.4
0°-180°	5570.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	936	948	937	937	944	89
15°	888	896	882	873	875	250
25°	798	798	775	758	754	367
35°	678	670	639	614	608	424
45°	543	532	500	473	466	420
55°	406	391	363	340	334	363
65°	266	256	235	218	214	264
75°	138	129	120	110	107	147
85°	32	30	29	25	24	38
90°	0	0	1	0	1	3
95°	49	43	41	32	32	57
105°	208	205	200	188	186	220
115°	395	394	387	375	374	390
125°	587	593	581	569	570	524
135°	782	792	778	764	769	603
145°	970	981	966	954	961	606
155°	1134	1145	1129	1122	1131	521
165°	1253	1266	1250	1243	1254	353
175°	1313	1327	1310	1302	1305	125
180°	1318	1318	1318	1318	1318	



TEST NUMBER: P824209

CATALOG NUMBER: CB2-D-085U-055D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.1	947.1	947.1	947.1	947.1
2.5°	940.8	952.1	943.7	944.9	946.6
5°	935.5	948.3	937.0	937.1	943.5
7.5°	928.9	940.9	926.7	924.1	930.0
10°	919.6	931.6	917.4	912.4	916.7
12.5°	907.4	918.9	905.2	897.3	901.0
15°	887.7	895.5	881.9	873.2	874.6
17.5°	866.2	871.0	851.4	844.1	842.7
20°	850.0	854.2	831.1	820.9	819.5
22.5°	829.1	832.8	808.5	796.0	794.0
25°	797.7	798.5	775.3	757.8	753.5
27.5°	765.0	762.7	737.0	716.2	710.7
30°	741.2	738.3	708.5	686.7	681.7
32.5°	715.6	710.5	680.7	657.1	652.1
35°	678.1	670.3	638.9	614.1	608.5
37.5°	638.1	629.3	598.5	571.5	565.1
40°	611.4	601.4	570.0	543.0	536.7
42.5°	584.7	573.6	541.6	514.6	507.7
45°	543.2	531.8	499.7	473.4	466.3
47.5°	503.7	489.3	458.1	431.9	424.8
50°	476.5	460.9	430.8	405.2	398.1
52.5°	448.6	432.5	403.5	379.1	372.0
55°	406.1	391.2	362.6	340.0	333.6
57.5°	364.1	349.7	323.6	302.0	295.7
60°	335.1	323.0	298.1	277.6	272.0
62.5°	307.2	296.3	272.5	253.8	248.2
65°	266.2	256.2	235.0	218.2	213.9
67.5°	226.3	216.3	199.1	184.1	179.3
70°	200.2	190.2	174.8	160.9	156.6
72.5°	175.2	164.7	152.2	139.5	136.3
75°	137.8	129.3	119.7	110.2	107.3
77.5°	104.7	96.5	89.5	82.8	82.1
80°	82.7	75.6	70.3	66.0	65.3
82.5°	61.8	56.4	52.9	49.7	49.6
85°	31.9	29.8	29.0	25.4	23.9
87.5°	9.3	9.3	8.3	7.0	7.2
90°	0.0	0.0	1.0	0.0	1.0
92.5°	12.3	10.7	10.1	6.6	7.6
95°	49.4	43.3	41.1	31.9	31.9
97.5°	93.2	87.1	83.9	74.4	72.4
100°	124.4	118.4	115.2	104.8	102.8
102.5°	156.5	153.7	148.1	136.9	134.9
105°	207.7	204.7	199.5	188.1	186.1
107.5°	260.3	260.9	253.1	243.8	241.0
110°	298.2	297.2	291.0	281.7	279.7



TEST NUMBER: P824209

CATALOG NUMBER: CB2-D-085U-055D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	336.8	335.0	328.8	319.5	317.5
115°	394.8	393.8	386.6	375.3	374.3
117.5°	449.9	453.1	444.6	432.6	432.2
120°	489.4	493.4	483.2	472.9	470.9
122.5°	528.1	532.9	522.7	510.8	511.2
125°	587.1	593.1	580.9	568.6	569.6
127.5°	644.1	651.5	640.1	627.6	628.8
130°	682.7	691.8	679.6	666.3	668.3
132.5°	722.2	731.2	719.1	705.0	708.6
135°	782.4	791.5	778.3	764.1	769.1
137.5°	839.2	848.2	833.9	821.9	827.9
140°	877.0	886.1	870.9	859.7	865.7
142.5°	914.1	924.7	908.7	896.7	904.4
145°	969.6	980.6	965.5	954.3	961.3
147.5°	1022.2	1033.3	1017.9	1007.2	1014.4
150°	1055.9	1067.0	1050.8	1041.7	1049.8
152.5°	1087.2	1099.9	1082.9	1073.9	1084.3
155°	1134.1	1145.1	1128.9	1122.0	1131.0
157.5°	1174.8	1187.7	1171.5	1165.5	1172.7
160°	1201.9	1214.0	1197.8	1191.8	1199.9
162.5°	1222.5	1235.4	1220.0	1213.3	1222.9
165°	1253.4	1266.4	1250.3	1243.3	1254.4
167.5°	1277.6	1291.5	1275.2	1268.0	1279.3
170°	1292.4	1305.5	1288.3	1280.4	1292.4
172.5°	1302.3	1316.2	1298.2	1290.1	1298.2
175°	1313.0	1327.1	1309.9	1301.7	1304.8
177.5°	1318.1	1329.4	1315.7	1308.5	1318.1
180°	1318.1	1318.1	1318.1	1318.1	1318.1



TEST NUMBER: P824209
 CATALOG NUMBER: CB2-D-085U-055D-835-1D-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	15.70	16.46	16.74	17.51	18.92	14.60	15.37	15.64	16.41	17.83
	3H	17.34	18.02	18.39	19.08	20.51	16.12	16.81	17.17	17.86	19.29
	4H	17.96	18.61	19.02	19.67	21.11	16.69	17.34	17.75	18.40	19.84
	6H	18.36	18.96	19.43	20.02	21.47	17.05	17.65	18.13	18.72	20.17
	8H	18.50	19.07	19.58	20.15	21.60	17.19	17.76	18.27	18.84	20.29
	12H	18.57	19.12	19.66	20.19	21.66	17.25	17.79	18.34	18.86	20.33
4H	2H	16.10	16.75	17.17	17.80	19.24	15.22	15.87	16.29	16.93	18.37
	3H	17.96	18.50	19.04	19.58	21.04	16.95	17.49	18.03	18.58	20.03
	4H	18.70	19.20	19.78	20.27	21.75	17.62	18.12	18.70	19.19	20.66
	6H	19.21	19.64	20.31	20.74	22.21	18.09	18.51	19.18	19.61	21.08
	8H	19.42	19.81	20.51	20.91	22.39	18.28	18.67	19.37	19.77	21.25
	12H	19.52	19.88	20.63	20.98	22.47	18.36	18.72	19.47	19.82	21.31
8H	4H	18.85	19.25	19.94	20.34	21.82	17.88	18.28	18.98	19.37	20.86
	6H	19.49	19.81	20.60	20.95	22.43	18.48	18.81	19.60	19.95	21.43
	8H	19.78	20.06	20.90	21.18	22.68	18.76	19.05	19.88	20.16	21.66
	12H	19.95	20.20	21.07	21.31	22.85	18.90	19.16	20.03	20.27	21.81
12H	4H	18.82	19.18	19.93	20.29	21.78	17.88	18.24	18.99	19.35	20.84
	6H	19.51	19.80	20.64	20.92	22.42	18.55	18.84	19.67	19.95	21.45
	8H	19.83	20.08	20.95	21.19	22.73	18.85	19.10	19.97	20.21	21.75