

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: P824304

Luminaire Tested: CB3-D-085U-055D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824304
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-085U-055D-830-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
3-INCH APERTURE
DOWNLIGHT 550 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 80 CRI, 3000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5105.5 lumens
Efficiency: N/A
Efficacy: 126.4 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: Semi-Indirect

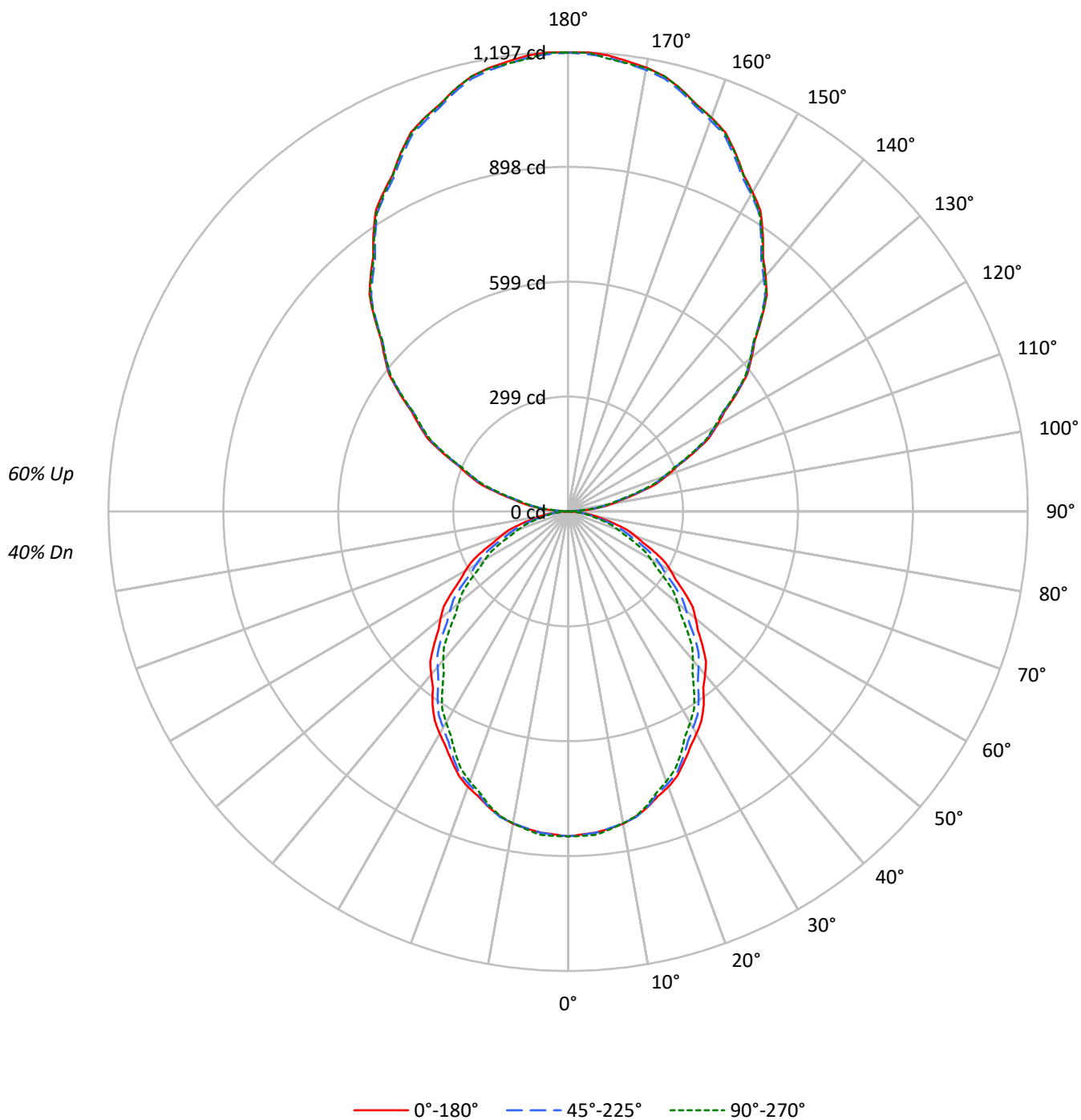
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P824304

CATALOG NUMBER: CB3-D-085U-055D-830-1D-UNV-STD-W-4

Luminous Intensity Polar Plot



TEST NUMBER: P824304

CATALOG NUMBER: CB3-D-085U-055D-830-1D-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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	37	31	26	31	26	22	26	22	19	20	17	15	13		
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	19	16	14	12		
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9577	9577	9577
5°	9531	9538	9603
10°	9490	9476	9476
15°	9345	9345	9289
20°	9193	9099	9009
25°	8951	8839	8682
30°	8731	8504	8300
35°	8502	8187	7897
40°	8194	7805	7468
45°	7917	7466	7005
50°	7632	7060	6553
55°	7320	6669	6125
60°	6986	6264	5639
65°	6591	5804	5130
70°	6140	5263	4569
75°	5565	4621	4070
80°	4854	3870	3597
85°	3739	3271	3271

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7917 cd/sqm

TEST NUMBER: P824304

CATALOG NUMBER: CB3-D-085U-055D-830-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	1.6
10°-20°	224.4	4.4
20°-30°	325.7	6.4
30°-40°	370.2	7.3
40°-50°	359.4	7.0
50°-60°	303.4	5.9
60°-70°	215.9	4.2
70°-80°	115.4	2.3
80°-90°	30.5	0.6
90°-100°	50.5	1.0
100°-110°	197.6	3.9
110°-120°	352.2	6.9
120°-130°	476.7	9.3
130°-140°	548.0	10.7
140°-150°	549.9	10.8
150°-160°	472.9	9.3
160°-170°	320.1	6.3
170°-180°	112.9	2.2
0°-30°	630.0	12.3
0°-40°	1000.2	19.6
0°-60°	1663.0	32.6
0°-90°	2024.7	39.7
90°-120°	600.4	11.8
90°-150°	2174.9	42.6
90°-180°	3081.0	60.3
0°-180°	5105.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	839	850	840	839	846	80
15°	798	805	798	793	793	225
25°	717	719	708	698	695	330
35°	616	610	593	575	572	384
45°	495	487	467	444	438	382
55°	371	361	338	316	310	332
65°	246	237	217	197	192	244
75°	127	120	106	95	93	136
85°	29	26	25	25	25	34
90°	0	0	0	0	0	3
95°	49	44	39	37	38	55
105°	192	191	184	181	180	204
115°	359	361	353	352	351	356
125°	535	542	531	529	530	479
135°	713	720	708	703	710	550
145°	884	891	876	872	880	552
155°	1031	1040	1023	1019	1029	474
165°	1138	1148	1133	1127	1138	321
175°	1192	1203	1187	1180	1184	113
180°	1195	1195	1195	1195	1195	

TEST NUMBER: P824304

CATALOG NUMBER: CB3-D-085U-055D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	846.4	846.4	846.4	846.4	846.4
2.5°	842.1	850.5	843.0	844.0	845.9
5°	839.2	849.8	839.8	838.7	845.5
7.5°	832.7	842.3	832.0	829.6	834.9
10°	826.0	836.6	824.8	821.8	824.8
12.5°	814.0	825.0	815.7	810.8	813.3
15°	797.8	804.8	797.8	793.0	793.0
17.5°	777.9	785.3	772.1	768.7	767.2
20°	763.5	770.0	755.7	750.9	748.2
22.5°	744.3	750.3	738.4	729.5	727.1
25°	717.0	719.3	708.0	698.3	695.4
27.5°	690.4	691.0	675.4	663.7	659.8
30°	668.3	668.9	650.9	638.3	635.3
32.5°	646.2	644.5	627.4	612.3	610.3
35°	615.5	609.6	592.7	575.2	571.7
37.5°	578.4	574.9	554.8	537.3	532.0
40°	554.8	549.0	528.4	510.9	505.6
42.5°	531.3	524.5	503.4	484.0	478.2
45°	494.8	487.2	466.6	444.2	437.8
47.5°	458.1	449.7	427.1	405.4	398.2
50°	433.6	424.7	401.1	379.9	372.3
52.5°	408.6	399.3	375.7	354.0	347.8
55°	371.1	361.1	338.1	316.3	310.5
57.5°	333.6	323.8	300.8	280.3	273.2
60°	308.7	299.3	276.8	256.2	249.2
62.5°	283.2	274.3	252.3	232.2	225.7
65°	246.2	237.4	216.8	197.4	191.6
67.5°	209.6	202.1	181.7	163.9	159.2
70°	185.6	178.5	159.1	142.8	138.1
72.5°	162.5	155.0	136.6	122.7	119.4
75°	127.3	120.3	105.7	94.8	93.1
77.5°	95.1	89.4	76.7	70.6	69.7
80°	74.5	69.2	59.4	55.2	55.2
82.5°	55.2	50.9	44.6	42.8	42.8
85°	28.8	26.5	25.2	25.2	25.2
87.5°	8.6	8.6	8.2	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.2	11.8	7.3	5.9	5.9
95°	48.6	44.1	39.4	36.7	37.6
97.5°	89.6	85.3	79.6	76.8	77.5
100°	118.2	114.7	108.2	105.4	105.4
102.5°	146.1	144.0	137.5	134.8	135.5
105°	191.6	190.7	184.2	181.4	179.6
107.5°	241.8	240.2	233.0	232.8	231.2
110°	274.1	273.2	266.7	265.8	264.9

TEST NUMBER: P824304

CATALOG NUMBER: CB3-D-085U-055D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	307.1	308.3	301.2	300.2	299.4
115°	359.3	361.1	352.9	351.9	351.0
117.5°	412.8	415.3	406.6	405.6	404.0
120°	447.3	452.7	441.8	440.8	440.0
122.5°	482.5	487.1	477.0	475.3	475.1
125°	535.3	541.5	530.7	528.9	529.8
127.5°	588.1	594.5	584.4	580.8	582.8
130°	623.3	630.4	619.6	616.0	618.7
132.5°	659.2	666.4	655.5	652.0	656.1
135°	713.1	720.3	708.5	703.2	710.3
137.5°	765.7	772.0	759.1	755.4	763.0
140°	800.2	806.4	792.8	788.5	797.4
142.5°	833.9	840.9	825.8	821.5	831.1
145°	883.6	890.7	876.2	871.8	879.9
147.5°	931.2	938.6	923.9	918.8	927.0
150°	960.6	968.6	953.2	948.9	957.8
152.5°	989.2	997.9	981.8	976.8	987.9
155°	1031.1	1040.1	1022.9	1018.6	1029.3
157.5°	1068.9	1077.1	1061.6	1057.2	1066.5
160°	1091.6	1100.6	1084.3	1080.0	1090.7
162.5°	1111.4	1120.4	1105.6	1099.8	1110.5
165°	1138.4	1148.2	1132.9	1126.7	1138.4
167.5°	1160.9	1171.5	1155.2	1149.6	1161.3
170°	1174.1	1184.0	1167.7	1160.6	1172.3
172.5°	1182.9	1192.8	1176.5	1169.4	1177.4
175°	1192.5	1203.2	1187.0	1179.7	1184.2
177.5°	1196.7	1205.3	1192.3	1185.9	1195.9
180°	1195.2	1195.2	1195.2	1195.2	1195.2

TEST NUMBER: P824304

CATALOG NUMBER: CB3-D-085U-055D-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	13.95	14.72	15.00	15.77	17.18	12.88	13.64	13.92	14.69	16.10
	3H	15.61	16.30	16.67	17.36	18.79	14.28	14.97	15.33	16.02	17.46
	4H	16.24	16.89	17.30	17.95	19.39	14.79	15.45	15.86	16.50	17.94
	6H	16.62	17.22	17.69	18.28	19.73	15.11	15.71	16.18	16.77	18.22
	8H	16.75	17.32	17.83	18.40	19.85	15.23	15.80	16.31	16.88	18.32
	12H	16.82	17.36	17.90	18.43	19.90	15.30	15.84	16.38	16.91	18.38
4H	2H	14.35	15.00	15.42	16.06	17.50	13.49	14.14	14.56	15.20	16.64
	3H	16.23	16.77	17.31	17.86	19.31	15.10	15.64	16.18	16.73	18.18
	4H	16.98	17.47	18.06	18.55	20.02	15.70	16.20	16.79	17.28	18.75
	6H	17.47	17.90	18.57	19.00	20.47	16.11	16.54	17.20	17.64	19.10
	8H	17.66	18.06	18.76	19.15	20.63	16.28	16.68	17.37	17.77	19.25
	12H	17.76	18.12	18.87	19.22	20.71	16.38	16.74	17.49	17.85	19.33
8H	4H	17.10	17.50	18.19	18.59	20.07	15.96	16.36	17.05	17.45	18.93
	6H	17.71	18.04	18.83	19.18	20.66	16.48	16.81	17.60	17.95	19.42
	8H	17.99	18.28	19.11	19.39	20.89	16.73	17.02	17.86	18.14	19.64
	12H	18.15	18.40	19.27	19.51	21.05	16.91	17.16	18.03	18.27	19.81
12H	4H	17.07	17.43	18.18	18.53	20.02	15.96	16.32	17.07	17.42	18.91
	6H	17.73	18.02	18.85	19.13	20.63	16.54	16.83	17.66	17.94	19.44
	8H	18.02	18.28	19.15	19.39	20.93	16.82	17.07	17.94	18.18	19.72