

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: P824206

Luminaire Tested: CB2-D-085U-030D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824206
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-030D-835-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
2-INCH APERTURE
DOWNLIGHT 300 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: 4517.8 lumens
Efficiency: N/A
Efficacy: 132.5 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

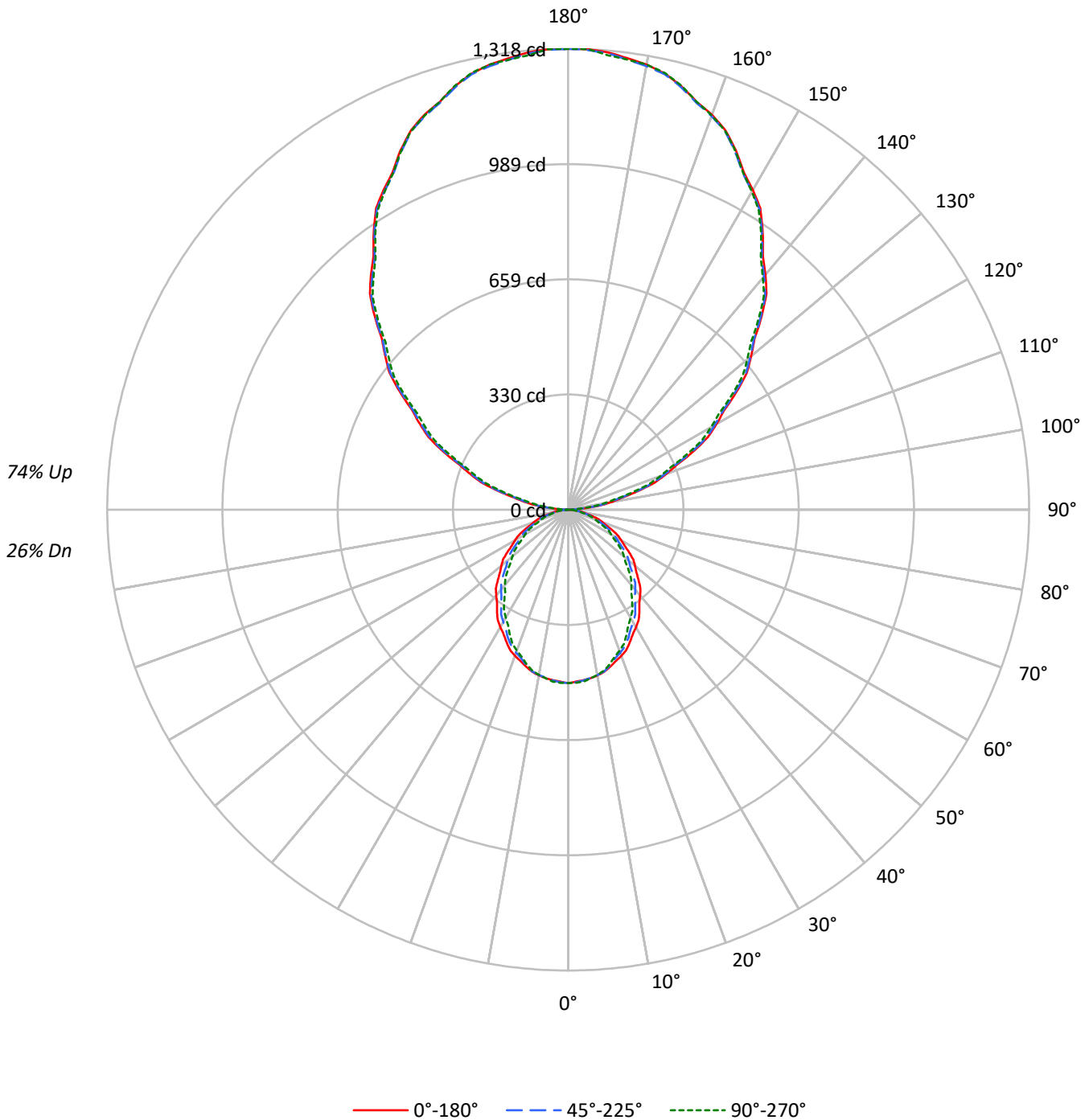
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26																				
1	92	88	85	81	82	79	76	73	61	59	57	45	44	42	30	29	29	22																				
2	84	77	71	66	75	69	64	60	54	50	47	39	37	36	26	25	24	18																				
3	77	68	61	55	68	61	55	50	47	43	40	35	32	30	23	22	21	16																				
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	19	18	14																				
5	64	53	46	40	57	48	41	36	38	33	29	28	25	22	19	17	16	12																				
6	59	48	40	34	53	43	36	31	34	29	25	25	22	20	17	15	14	10																				
7	55	43	35	30	49	39	32	27	30	26	22	23	20	17	16	14	12	9																				
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	14	12	11	8																				
9	47	35	28	23	42	32	26	21	25	21	17	19	16	14	13	11	10	8																				
10	44	32	25	21	39	29	23	19	23	19	16	18	14	12	12	10	9	7																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8636	8636	8636
5°	8562	8576	8635
10°	8514	8493	8486
15°	8379	8323	8255
20°	8246	8065	7952
25°	8025	7799	7580
30°	7803	7459	7176
35°	7546	7110	6772
40°	7276	6785	6387
45°	7003	6444	6013
50°	6758	6110	5647
55°	6456	5764	5302
60°	6110	5434	4960
65°	5741	5069	4616
70°	5337	4660	4176
75°	4852	4213	3782
80°	4343	3691	3430
85°	3337	3038	2498

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7003 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	1.0
10°-20°	130.0	2.9
20°-30°	186.9	4.1
30°-40°	210.0	4.6
40°-50°	202.9	4.5
50°-60°	171.4	3.8
60°-70°	123.1	2.7
70°-80°	67.3	1.5
80°-90°	17.9	0.4
90°-100°	50.9	1.1
100°-110°	210.0	4.6
110°-120°	381.2	8.4
120°-130°	518.8	11.5
130°-140°	598.9	13.3
140°-150°	603.5	13.4
150°-160°	520.8	11.5
160°-170°	353.0	7.8
170°-180°	124.5	2.8
0°-30°	363.5	8.0
0°-40°	573.5	12.7
0°-60°	947.8	21.0
0°-90°	1156.2	25.6
90°-120°	642.2	14.2
90°-150°	2363.3	52.3
90°-180°	3362.0	74.4
0°-180°	4517.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	496	496	496	496	496	
5°	490	496	490	491	494	46
15°	465	469	462	457	458	131
25°	418	418	406	397	394	192
35°	355	351	334	322	318	222
45°	284	278	262	248	244	220
55°	213	205	190	178	175	190
65°	139	134	123	114	112	138
75°	72	68	63	58	56	77
85°	17	16	15	13	12	20
90°	0	0	1	0	1	2
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	495.8	495.8	495.8	495.8	495.8
2.5°	492.4	498.4	494.0	494.6	495.5
5°	489.7	496.4	490.5	490.6	493.9
7.5°	486.2	492.5	485.1	483.7	486.8
10°	481.4	487.7	480.2	477.6	479.8
12.5°	475.0	481.0	473.8	469.7	471.6
15°	464.7	468.7	461.6	457.1	457.8
17.5°	453.4	455.9	445.7	441.9	441.1
20°	444.9	447.1	435.1	429.7	429.0
22.5°	434.0	435.9	423.2	416.7	415.6
25°	417.6	418.0	405.8	396.7	394.4
27.5°	400.4	399.2	385.8	374.9	372.0
30°	388.0	386.5	370.9	359.4	356.8
32.5°	374.6	371.9	356.3	344.0	341.4
35°	354.9	350.9	334.4	321.5	318.5
37.5°	334.0	329.4	313.3	299.1	295.8
40°	320.0	314.8	298.4	284.3	280.9
42.5°	306.1	300.3	283.5	269.4	265.7
45°	284.3	278.4	261.6	247.8	244.1
47.5°	263.7	256.1	239.8	226.1	222.4
50°	249.4	241.2	225.5	212.1	208.4
52.5°	234.8	226.4	211.2	198.5	194.7
55°	212.6	204.8	189.8	178.0	174.6
57.5°	190.6	183.1	169.4	158.1	154.8
60°	175.4	169.1	156.0	145.3	142.4
62.5°	160.8	155.1	142.7	132.9	129.9
65°	139.3	134.1	123.0	114.2	112.0
67.5°	118.4	113.2	104.2	96.4	93.8
70°	104.8	99.6	91.5	84.2	82.0
72.5°	91.7	86.2	79.6	73.0	71.4
75°	72.1	67.7	62.6	57.7	56.2
77.5°	54.8	50.5	46.8	43.3	43.0
80°	43.3	39.6	36.8	34.5	34.2
82.5°	32.3	29.5	27.7	26.0	26.0
85°	16.7	15.6	15.2	13.3	12.5
87.5°	4.9	4.9	4.5	3.6	3.9
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: P824206

CATALOG NUMBER: CB2-D-085U-030D-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



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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	11.63	12.30	12.78	13.44	15.02	10.53	11.20	11.68	12.34	13.92
	3H	13.26	13.86	14.41	15.00	16.60	12.04	12.65	13.20	13.79	15.38
	4H	13.88	14.45	15.04	15.59	17.20	12.61	13.18	13.77	14.32	15.92
	6H	14.27	14.80	15.44	15.94	17.56	12.97	13.50	14.14	14.64	16.25
	8H	14.42	14.92	15.59	16.07	17.68	13.11	13.61	14.28	14.76	16.37
	12H	14.48	14.96	15.66	16.11	17.74	13.16	13.64	14.34	14.79	16.42
4H	2H	12.02	12.59	13.19	13.73	15.33	11.14	11.71	12.31	12.85	14.46
	3H	13.87	14.35	15.04	15.51	17.13	12.86	13.34	14.03	14.50	16.12
	4H	14.61	15.05	15.78	16.20	17.83	13.53	13.97	14.70	15.12	16.75
	6H	15.12	15.49	16.30	16.67	18.29	13.99	14.37	15.17	15.54	17.17
	8H	15.32	15.67	16.49	16.83	18.48	14.18	14.53	15.35	15.69	17.34
	12H	15.41	15.73	16.61	16.91	18.56	14.26	14.57	15.45	15.75	17.40
8H	4H	14.75	15.10	15.93	16.27	17.91	13.78	14.13	14.96	15.30	16.94
	6H	15.38	15.67	16.58	16.88	18.52	14.38	14.67	15.58	15.88	17.52
	8H	15.67	15.92	16.87	17.11	18.77	14.65	14.91	15.86	16.09	17.75
	12H	15.84	16.06	17.04	17.24	18.93	14.80	15.02	16.00	16.20	17.89
12H	4H	14.72	15.04	15.91	16.22	17.86	13.78	14.10	14.97	15.28	16.92
	6H	15.41	15.66	16.61	16.85	18.51	14.44	14.69	15.64	15.88	17.54
	8H	15.72	15.94	16.92	17.12	18.81	14.74	14.96	15.95	16.15	17.83