

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: P824207

Luminaire Tested: CB2-D-085U-030D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824207
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-840-1D-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, 4000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4457.6 lumens
Efficiency: N/A
Efficacy: 130.7 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

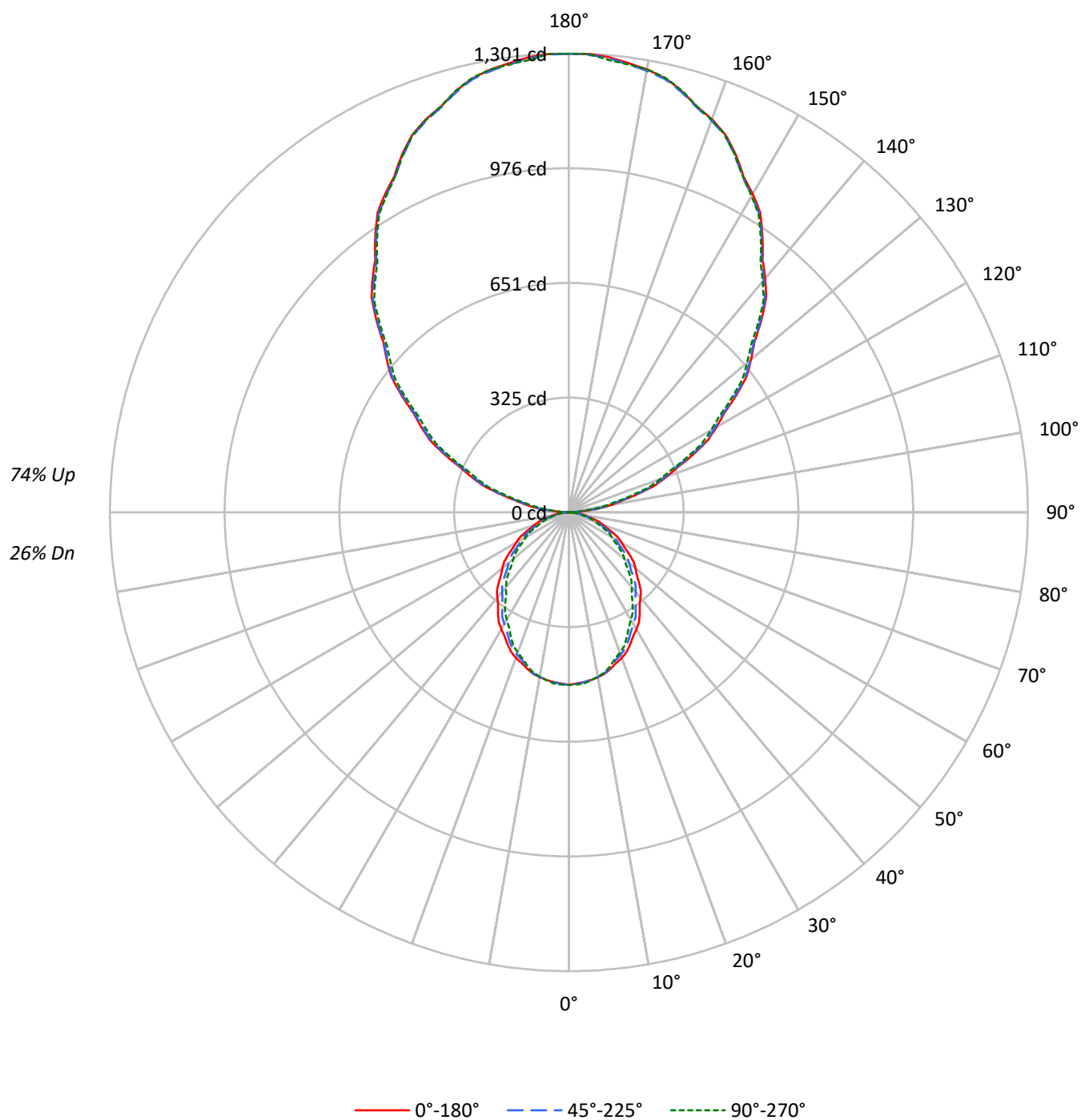
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	8521	8521	8521
5°	8448	8460	8520
10°	8399	8380	8373
15°	8268	8213	8145
20°	8137	7957	7846
25°	7918	7695	7480
30°	7699	7359	7081
35°	7446	7017	6683
40°	7180	6694	6303
45°	6909	6357	5931
50°	6668	6029	5571
55°	6371	5688	5232
60°	6026	5361	4894
65°	5667	5003	4554
70°	5266	4599	4120
75°	4791	4159	3728
80°	4283	3641	3380
85°	3297	2998	2478

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6909 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	1.0
10°-20°	128.2	2.9
20°-30°	184.4	4.1
30°-40°	207.2	4.6
40°-50°	200.2	4.5
50°-60°	169.1	3.8
60°-70°	121.5	2.7
70°-80°	66.4	1.5
80°-90°	17.7	0.4
90°-100°	50.2	1.1
100°-110°	207.2	4.6
110°-120°	376.2	8.4
120°-130°	511.9	11.5
130°-140°	590.9	13.3
140°-150°	595.5	13.4
150°-160°	513.9	11.5
160°-170°	348.3	7.8
170°-180°	122.9	2.8
0°-30°	358.6	8.0
0°-40°	565.9	12.7
0°-60°	935.2	21.0
0°-90°	1140.8	25.6
90°-120°	633.6	14.2
90°-150°	2331.8	52.3
90°-180°	3317.0	74.4
0°-180°	4457.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	489	489	489	489	489	
5°	483	490	484	484	487	46
15°	458	462	456	451	452	129
25°	412	412	400	391	389	190
35°	350	346	330	317	314	219
45°	280	275	258	244	241	217
55°	210	202	187	176	172	188
65°	138	132	121	113	110	136
75°	71	67	62	57	55	76
85°	16	15	15	13	12	20
90°	0	0	1	0	1	2
95°	49	43	41	31	31	57
105°	205	202	197	186	184	217
115°	390	389	381	370	369	384
125°	579	585	573	561	562	517
135°	772	781	768	754	759	595
145°	957	968	953	942	948	598
155°	1119	1130	1114	1107	1116	515
165°	1237	1250	1234	1227	1238	348
175°	1296	1309	1292	1284	1287	123
180°	1301	1301	1301	1301	1301	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	489.2	489.2	489.2	489.2	489.2
2.5°	485.9	491.7	487.4	488.0	488.9
5°	483.2	489.8	483.9	484.0	487.3
7.5°	479.7	486.0	478.6	477.3	480.3
10°	474.9	481.2	473.8	471.3	473.4
12.5°	468.7	474.6	467.5	463.5	465.4
15°	458.5	462.5	455.5	451.0	451.7
17.5°	447.4	449.9	439.7	436.0	435.2
20°	439.0	441.2	429.3	424.0	423.3
22.5°	428.2	430.1	417.6	411.1	410.1
25°	412.0	412.4	400.4	391.4	389.2
27.5°	395.1	393.9	380.6	369.9	367.1
30°	382.8	381.3	365.9	354.7	352.1
32.5°	369.6	367.0	351.6	339.4	336.8
35°	350.2	346.2	330.0	317.2	314.3
37.5°	329.5	325.0	309.1	295.2	291.9
40°	315.8	310.6	294.4	280.5	277.2
42.5°	302.0	296.3	279.7	265.8	262.2
45°	280.5	274.7	258.1	244.5	240.8
47.5°	260.2	252.7	236.6	223.1	219.4
50°	246.1	238.0	222.5	209.3	205.6
52.5°	231.7	223.4	208.4	195.8	192.2
55°	209.8	202.1	187.3	175.6	172.3
57.5°	188.0	180.6	167.1	156.0	152.7
60°	173.0	166.8	153.9	143.4	140.5
62.5°	158.7	153.0	140.8	131.1	128.2
65°	137.5	132.3	121.4	112.7	110.5
67.5°	116.9	111.7	102.9	95.1	92.6
70°	103.4	98.3	90.3	83.1	80.9
72.5°	90.5	85.1	78.6	72.0	70.4
75°	71.2	66.8	61.8	56.9	55.4
77.5°	54.1	49.8	46.2	42.8	42.4
80°	42.7	39.0	36.3	34.1	33.7
82.5°	31.9	29.1	27.3	25.7	25.6
85°	16.5	15.4	15.0	13.1	12.4
87.5°	4.8	4.8	4.4	3.6	3.8
90°	0.0	0.0	1.0	0.0	1.0
92.5°	12.2	10.6	9.9	6.5	7.5
95°	48.7	42.7	40.6	31.4	31.4
97.5°	91.9	86.0	82.8	73.4	71.4
100°	122.8	116.8	113.6	103.4	101.4
102.5°	154.4	151.6	146.1	135.1	133.1
105°	204.9	201.9	196.8	185.6	183.6
107.5°	256.9	257.5	249.8	240.6	237.8
110°	294.2	293.2	287.1	277.9	275.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	332.3	330.6	324.4	315.3	313.3
115°	389.6	388.6	381.4	370.3	369.3
117.5°	443.9	447.1	438.7	426.9	426.5
120°	482.9	486.9	476.8	466.6	464.6
122.5°	521.0	525.8	515.8	504.0	504.4
125°	579.3	585.2	573.2	561.0	562.0
127.5°	635.5	642.8	631.6	619.3	620.5
130°	673.6	682.5	670.6	657.4	659.4
132.5°	712.6	721.5	709.5	695.6	699.2
135°	772.0	780.9	768.0	753.9	758.8
137.5°	828.0	836.9	822.7	810.9	816.9
140°	865.3	874.3	859.3	848.2	854.2
142.5°	901.9	912.4	896.6	884.8	892.3
145°	956.6	967.6	952.6	941.6	948.5
147.5°	1008.6	1019.5	1004.3	993.7	1000.9
150°	1041.9	1052.8	1036.8	1027.8	1035.8
152.5°	1072.7	1085.2	1068.4	1059.5	1069.9
155°	1119.0	1129.9	1113.9	1107.0	1115.9
157.5°	1159.1	1171.8	1155.9	1150.0	1157.1
160°	1185.9	1197.8	1181.9	1176.0	1183.9
162.5°	1206.2	1218.9	1203.8	1197.1	1206.6
165°	1236.6	1249.5	1233.6	1226.7	1237.7
167.5°	1260.6	1274.3	1258.2	1251.1	1262.2
170°	1275.2	1288.1	1271.1	1263.3	1275.2
172.5°	1284.9	1298.6	1280.9	1272.9	1280.9
175°	1295.5	1309.4	1292.4	1284.4	1287.4
177.5°	1300.6	1311.7	1298.1	1291.0	1300.6
180°	1300.6	1300.6	1300.6	1300.6	1300.6

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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	11.58	12.26	12.73	13.39	14.97	10.49	11.16	11.63	12.29	13.87
	3H	13.21	13.82	14.37	14.96	16.55	12.00	12.60	13.15	13.74	15.34
	4H	13.83	14.41	14.99	15.55	17.15	12.56	13.13	13.72	14.27	15.88
	6H	14.23	14.75	15.40	15.90	17.51	12.92	13.45	14.09	14.59	16.21
	8H	14.37	14.87	15.54	16.03	17.63	13.06	13.56	14.23	14.72	16.32
	12H	14.44	14.91	15.61	16.06	17.69	13.12	13.59	14.29	14.74	16.37
4H	2H	11.97	12.54	13.14	13.68	15.28	11.10	11.67	12.26	12.81	14.41
	3H	13.82	14.30	14.99	15.46	17.08	12.81	13.29	13.99	14.46	16.07
	4H	14.56	15.00	15.74	16.15	17.79	13.48	13.92	14.65	15.07	16.71
	6H	15.07	15.44	16.25	16.62	18.24	13.94	14.32	15.12	15.50	17.12
	8H	15.27	15.62	16.45	16.79	18.43	14.13	14.48	15.31	15.65	17.29
	12H	15.37	15.68	16.56	16.86	18.51	14.21	14.53	15.40	15.71	17.35
8H	4H	14.70	15.05	15.88	16.22	17.86	13.74	14.09	14.92	15.26	16.90
	6H	15.34	15.62	16.53	16.84	18.47	14.34	14.62	15.53	15.83	17.47
	8H	15.62	15.88	16.83	17.06	18.72	14.61	14.86	15.81	16.05	17.71
	12H	15.79	16.01	17.00	17.20	18.89	14.75	14.97	15.96	16.16	17.85
12H	4H	14.67	14.99	15.87	16.17	17.81	13.73	14.05	14.93	15.23	16.87
	6H	15.36	15.61	16.57	16.80	18.46	14.40	14.65	15.60	15.84	17.49
	8H	15.67	15.89	16.88	17.08	18.77	14.69	14.91	15.90	16.10	17.79