

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: P824205

Luminaire Tested: CB2-D-085U-030D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824205
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-830-1D-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, 3000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4140.9 lumens
Efficiency: N/A
Efficacy: 121.4 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

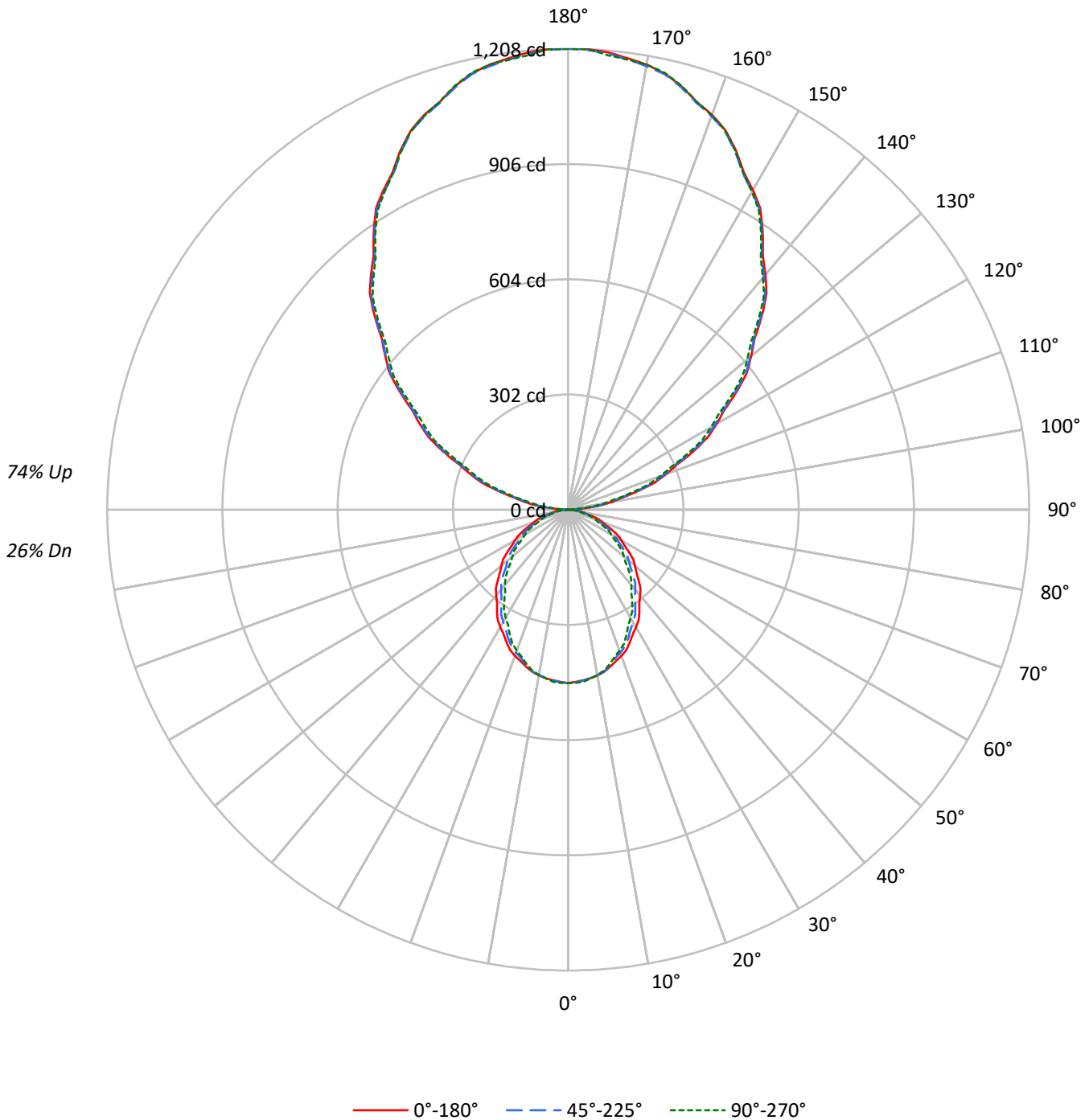
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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°	7914	7914	7914
5°	7849	7861	7915
10°	7803	7785	7778
15°	7680	7629	7566
20°	7559	7392	7288
25°	7355	7149	6947
30°	7152	6836	6579
35°	6917	6517	6207
40°	6669	6218	5855
45°	6419	5904	5510
50°	6194	5601	5175
55°	5918	5284	4862
60°	5601	4981	4546
65°	5263	4645	4228
70°	4889	4273	3830
75°	4448	3863	3466
80°	3982	3390	3139
85°	3058	2778	2298

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6419 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	1.0
10°-20°	119.1	2.9
20°-30°	171.3	4.1
30°-40°	192.5	4.6
40°-50°	186.0	4.5
50°-60°	157.1	3.8
60°-70°	112.9	2.7
70°-80°	61.7	1.5
80°-90°	16.5	0.4
90°-100°	46.7	1.1
100°-110°	192.5	4.6
110°-120°	349.4	8.4
120°-130°	475.5	11.5
130°-140°	548.9	13.3
140°-150°	553.2	13.4
150°-160°	477.4	11.5
160°-170°	323.5	7.8
170°-180°	114.1	2.8
0°-30°	333.1	8.0
0°-40°	525.6	12.7
0°-60°	868.7	21.0
0°-90°	1059.8	25.6
90°-120°	588.6	14.2
90°-150°	2166.2	52.3
90°-180°	3081.0	74.4
0°-180°	4140.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	449	455	450	450	453	43
15°	426	430	423	419	420	120
25°	383	383	372	364	362	176
35°	325	322	306	295	292	203
45°	261	255	240	227	224	201
55°	195	188	174	163	160	174
65°	128	123	113	105	103	127
75°	66	62	57	53	52	71
85°	15	14	14	12	12	18
90°	0	0	1	0	1	2
95°	45	40	38	29	29	53
105°	190	188	183	172	171	202
115°	362	361	354	344	343	357
125°	538	544	532	521	522	480
135°	717	726	713	700	705	552
145°	889	899	885	875	881	555
155°	1040	1050	1035	1028	1037	478
165°	1149	1161	1146	1140	1150	324
175°	1203	1216	1201	1193	1196	114
180°	1208	1208	1208	1208	1208	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	454.4	454.4	454.4	454.4	454.4
2.5°	451.4	456.8	452.8	453.3	454.1
5°	448.9	455.0	449.6	449.6	452.7
7.5°	445.7	451.4	444.6	443.4	446.2
10°	441.2	447.0	440.2	437.8	439.8
12.5°	435.4	440.9	434.3	430.5	432.3
15°	425.9	429.6	423.1	419.0	419.6
17.5°	415.6	417.9	408.5	405.0	404.3
20°	407.8	409.8	398.8	393.9	393.2
22.5°	397.8	399.5	387.9	381.9	380.9
25°	382.7	383.1	372.0	363.6	361.5
27.5°	367.0	365.9	353.6	343.6	341.0
30°	355.6	354.2	339.9	329.5	327.1
32.5°	343.4	340.9	326.6	315.3	312.9
35°	325.3	321.6	306.5	294.7	291.9
37.5°	306.1	301.9	287.1	274.2	271.1
40°	293.3	288.6	273.5	260.5	257.5
42.5°	280.5	275.2	259.9	246.9	243.6
45°	260.6	255.2	239.7	227.1	223.7
47.5°	241.7	234.7	219.8	207.2	203.8
50°	228.6	221.1	206.7	194.4	191.0
52.5°	215.2	207.5	193.6	181.9	178.5
55°	194.9	187.7	174.0	163.1	160.1
57.5°	174.7	167.8	155.3	144.9	141.9
60°	160.8	155.0	143.0	133.2	130.5
62.5°	147.4	142.2	130.8	121.8	119.1
65°	127.7	122.9	112.7	104.7	102.6
67.5°	108.6	103.8	95.5	88.3	86.0
70°	96.0	91.3	83.9	77.2	75.2
72.5°	84.1	79.0	73.0	66.9	65.4
75°	66.1	62.0	57.4	52.9	51.5
77.5°	50.2	46.3	42.9	39.7	39.4
80°	39.7	36.3	33.8	31.7	31.3
82.5°	29.6	27.1	25.4	23.9	23.8
85°	15.3	14.3	13.9	12.2	11.5
87.5°	4.5	4.5	4.1	3.3	3.5
90°	0.0	0.0	0.9	0.0	0.9
92.5°	11.3	9.8	9.2	6.1	7.0
95°	45.2	39.7	37.7	29.2	29.2
97.5°	85.4	79.9	76.9	68.2	66.3
100°	114.0	108.5	105.5	96.1	94.2
102.5°	143.4	140.9	135.7	125.5	123.6
105°	190.4	187.6	182.8	172.4	170.6
107.5°	238.6	239.2	232.0	223.5	220.9
110°	273.3	272.4	266.7	258.2	256.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	308.7	307.1	301.4	292.9	291.0
115°	361.9	361.0	354.3	344.0	343.0
117.5°	412.4	415.3	407.5	396.6	396.2
120°	448.6	452.3	442.9	433.5	431.6
122.5°	484.0	488.4	479.1	468.2	468.6
125°	538.1	543.6	532.5	521.2	522.1
127.5°	590.3	597.1	586.7	575.3	576.4
130°	625.8	634.0	622.9	610.7	612.6
132.5°	661.9	670.2	659.1	646.2	649.5
135°	717.2	725.5	713.4	700.3	704.9
137.5°	769.2	777.5	764.3	753.3	758.8
140°	803.9	812.2	798.2	788.0	793.5
142.5°	837.8	847.6	832.9	821.9	828.9
145°	888.7	898.8	884.9	874.7	881.1
147.5°	936.9	947.1	933.0	923.1	929.8
150°	967.8	978.0	963.1	954.8	962.2
152.5°	996.5	1008.1	992.5	984.3	993.9
155°	1039.5	1049.6	1034.8	1028.3	1036.6
157.5°	1076.8	1088.6	1073.8	1068.3	1074.9
160°	1101.7	1112.7	1097.9	1092.4	1099.8
162.5°	1120.5	1132.3	1118.3	1112.0	1120.9
165°	1148.8	1160.8	1146.0	1139.6	1149.7
167.5°	1171.0	1183.7	1168.8	1162.2	1172.5
170°	1184.6	1196.6	1180.8	1173.5	1184.6
172.5°	1193.6	1206.4	1189.9	1182.5	1189.9
175°	1203.4	1216.3	1200.6	1193.1	1195.9
177.5°	1208.2	1218.5	1205.9	1199.3	1208.2
180°	1208.2	1208.2	1208.2	1208.2	1208.2



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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	11.33	12.00	12.47	13.13	14.72	10.23	10.90	11.37	12.03	13.62
	3H	12.96	13.56	14.11	14.70	16.30	11.74	12.34	12.89	13.48	15.08
	4H	13.58	14.15	14.74	15.29	16.89	12.31	12.88	13.47	14.02	15.62
	6H	13.97	14.50	15.14	15.64	17.25	12.67	13.19	13.84	14.34	15.95
	8H	14.11	14.61	15.28	15.77	17.38	12.80	13.30	13.97	14.46	16.07
	12H	14.18	14.66	15.36	15.81	17.44	12.86	13.33	14.03	14.49	16.11
4H	2H	11.71	12.29	12.88	13.43	15.03	10.84	11.41	12.01	12.55	14.15
	3H	13.57	14.04	14.74	15.21	16.82	12.56	13.03	13.73	14.20	15.81
	4H	14.30	14.74	15.48	15.90	17.53	13.22	13.66	14.40	14.82	16.45
	6H	14.81	15.19	15.99	16.37	17.99	13.69	14.06	14.87	15.24	16.86
	8H	15.01	15.36	16.19	16.53	18.17	13.87	14.22	15.05	15.39	17.03
	12H	15.11	15.43	16.30	16.61	18.25	13.95	14.27	15.15	15.45	17.09
8H	4H	14.45	14.80	15.62	15.96	17.60	13.48	13.83	14.66	15.00	16.64
	6H	15.08	15.37	16.28	16.58	18.22	14.08	14.37	15.28	15.58	17.22
	8H	15.37	15.62	16.57	16.81	18.47	14.35	14.60	15.56	15.79	17.45
	12H	15.53	15.76	16.74	16.94	18.63	14.49	14.72	15.70	15.90	17.59
12H	4H	14.42	14.73	15.61	15.91	17.56	13.48	13.79	14.67	14.97	16.62
	6H	15.11	15.36	16.31	16.55	18.20	14.14	14.39	15.34	15.58	17.24
	8H	15.42	15.64	16.62	16.82	18.51	14.44	14.66	15.64	15.84	17.53