

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: P824177

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

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824177
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-030U-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 300 LUMENS PER FOOT
Light Source: 80 CRI, 4000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2279.4 lumens
Efficiency: N/A
Efficacy: 127.3 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: General Diffuse

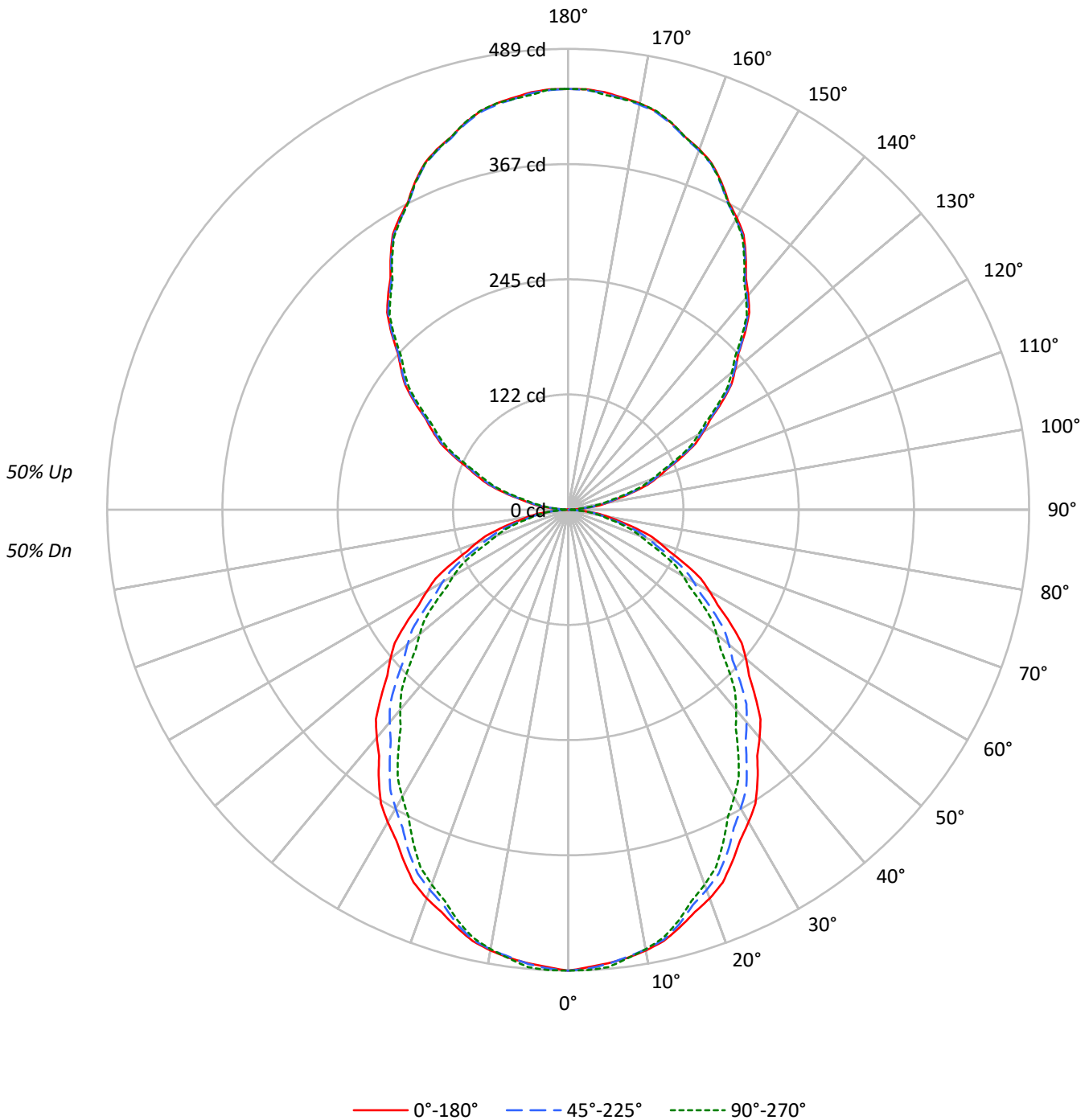
Input Watts (W): 17.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50				
1	98	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48	43				
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	41	36				
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	31				
4	75	64	56	50	69	59	53	47	51	46	41	43	39	36	35	32	30	26				
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23				
6	63	51	43	38	58	48	41	35	41	36	31	35	31	27	29	26	23	20				
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18				
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16				
9	51	39	31	26	47	36	29	25	31	26	22	27	23	19	23	19	17	15				
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13				

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	2.0
10°-20°	128.2	5.6
20°-30°	184.4	8.1
30°-40°	207.2	9.1
40°-50°	200.2	8.8
50°-60°	169.1	7.4
60°-70°	121.5	5.3
70°-80°	66.4	2.9
80°-90°	17.7	0.8
90°-100°	17.2	0.8
100°-110°	71.1	3.1
110°-120°	129.1	5.7
120°-130°	175.7	7.7
130°-140°	202.8	8.9
140°-150°	204.4	9.0
150°-160°	176.4	7.7
160°-170°	119.6	5.2
170°-180°	42.2	1.9
0°-30°	358.6	15.7
0°-40°	565.9	24.8
0°-60°	935.2	41.0
0°-90°	1140.8	50.0
90°-120°	217.5	9.5
90°-150°	800.5	35.1
90°-180°	1139.0	50.0
0°-180°	2279.4	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	0	0	0	1
95°	17	15	14	11	11	19
105°	70	69	68	64	63	75
115°	134	133	131	127	127	132
125°	199	201	197	193	193	178
135°	265	268	264	259	260	204
145°	328	332	327	323	326	205
155°	384	388	382	380	383	177
165°	424	429	424	421	425	120
175°	445	450	444	441	442	42
180°	446	446	446	446	446	



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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	4.3	3.6	3.7
90°	0.0	0.0	0.3	0.0	0.3
92.5°	4.2	3.6	3.4	2.2	2.6
95°	16.7	14.7	13.9	10.8	10.8
97.5°	31.6	29.5	28.4	25.2	24.5
100°	42.1	40.1	39.0	35.5	34.8
102.5°	53.0	52.1	50.1	46.4	45.7
105°	70.3	69.3	67.6	63.7	63.0
107.5°	88.2	88.4	85.7	82.6	81.6
110°	101.0	100.7	98.6	95.4	94.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	114.1	113.5	111.4	108.2	107.5
115°	133.7	133.4	130.9	127.1	126.8
117.5°	152.4	153.5	150.6	146.5	146.4
120°	165.8	167.1	163.7	160.2	159.5
122.5°	178.9	180.5	177.1	173.0	173.2
125°	198.9	200.9	196.8	192.6	192.9
127.5°	218.1	220.7	216.8	212.6	213.0
130°	231.2	234.3	230.2	225.7	226.4
132.5°	244.6	247.7	243.6	238.8	240.0
135°	265.0	268.1	263.6	258.8	260.5
137.5°	284.2	287.3	282.4	278.4	280.4
140°	297.1	300.1	295.0	291.2	293.2
142.5°	309.6	313.2	307.8	303.7	306.3
145°	328.4	332.2	327.0	323.2	325.6
147.5°	346.2	350.0	344.8	341.1	343.6
150°	357.7	361.4	355.9	352.8	355.6
152.5°	368.2	372.5	366.8	363.7	367.3
155°	384.1	387.9	382.4	380.0	383.1
157.5°	397.9	402.3	396.8	394.8	397.2
160°	407.1	411.2	405.7	403.7	406.4
162.5°	414.1	418.4	413.2	410.9	414.2
165°	424.5	429.0	423.5	421.1	424.9
167.5°	432.7	437.4	431.9	429.5	433.3
170°	437.8	442.2	436.4	433.7	437.8
172.5°	441.1	445.8	439.7	437.0	439.7
175°	444.7	449.5	443.7	440.9	441.9
177.5°	446.5	450.3	445.6	443.2	446.5
180°	446.5	446.5	446.5	446.5	446.5

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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	14.45	15.30	15.41	16.27	17.54	13.35	14.20	14.31	15.17	16.44
	3H	16.09	16.85	17.06	17.84	19.13	14.88	15.64	15.85	16.62	17.91
	4H	16.72	17.44	17.71	18.43	19.73	15.45	16.17	16.43	17.16	18.46
	6H	17.12	17.79	18.12	18.78	20.09	15.82	16.48	16.81	17.47	18.79
	8H	17.27	17.90	18.27	18.91	20.22	15.96	16.59	16.96	17.60	18.91
	12H	17.34	17.95	18.35	18.95	20.28	16.02	16.62	17.03	17.62	18.96
4H	2H	14.86	15.58	15.85	16.56	17.86	13.98	14.70	14.97	15.69	16.99
	3H	16.73	17.33	17.72	18.34	19.66	15.72	16.32	16.72	17.33	18.65
	4H	17.47	18.02	18.48	19.03	20.37	16.39	16.94	17.40	17.95	19.29
	6H	17.99	18.46	19.01	19.49	20.83	16.86	17.34	17.88	18.37	19.70
	8H	18.19	18.64	19.21	19.66	21.01	17.05	17.50	18.07	18.52	19.87
	12H	18.30	18.70	19.34	19.74	21.09	17.14	17.54	18.18	18.58	19.94
8H	4H	17.63	18.07	18.65	19.09	20.44	16.66	17.10	17.68	18.13	19.48
	6H	18.27	18.63	19.31	19.70	21.05	17.27	17.63	18.31	18.70	20.05
	8H	18.56	18.88	19.61	19.93	21.30	17.54	17.86	18.59	18.91	20.28
	12H	18.73	19.01	19.79	20.06	21.47	17.69	17.97	18.75	19.02	20.43
12H	4H	17.61	18.00	18.64	19.04	20.40	16.67	17.06	17.70	18.10	19.46
	6H	18.30	18.62	19.35	19.67	21.04	17.33	17.65	18.38	18.70	20.07
	8H	18.61	18.89	19.67	19.94	21.35	17.63	17.92	18.69	18.96	20.37