

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: P824194

Luminaire Tested: CB2-D-055U-055D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824194
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-055U-055D-835-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
2-INCH APERTURE
DOWNLIGHT 550 LUMENS PER FOOT
UPLIGHT 550 LUMENS PER FOOT
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4436.5 lumens
Efficiency: N/A
Efficacy: 128.2 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

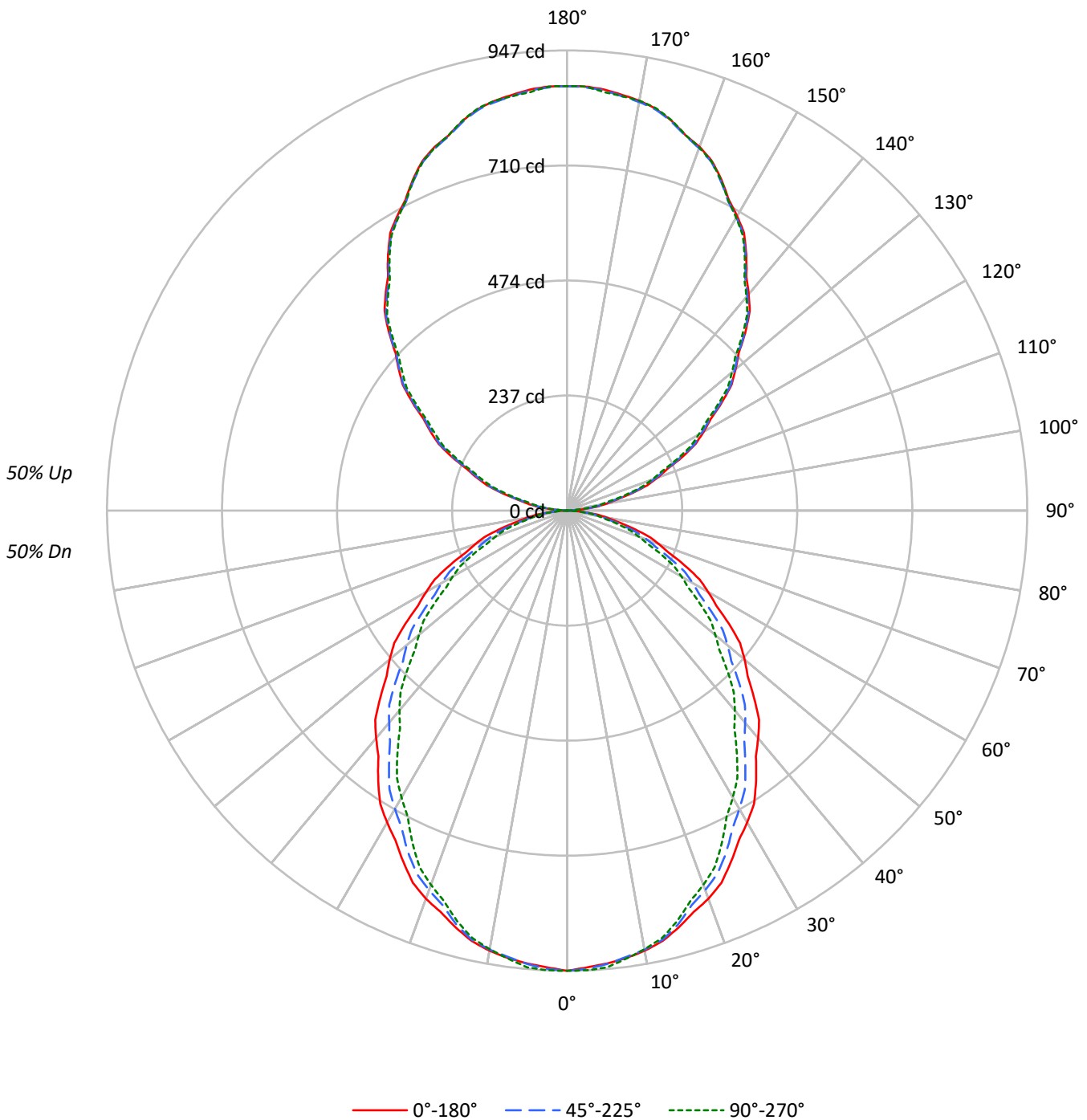
Input Watts (W): 34.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	59	58	50	49	48	42				
2	89	82	76	71	82	76	71	66	64	60	57	54	51	49	44	42	40	36				
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	30				
4	75	64	56	50	69	59	53	47	51	45	41	43	39	36	35	32	30	26				
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	32	29	26	23				
6	63	51	43	38	58	48	41	35	41	35	31	35	30	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	32	28	34	29	25	29	25	22	24	21	19	16				
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	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°	16496	16496	16496
5°	16356	16382	16496
10°	16264	16225	16213
15°	16007	15902	15771
20°	15755	15405	15190
25°	15330	14900	14481
30°	14907	14249	13710
35°	14418	13585	12938
40°	13901	12960	12203
45°	13380	12309	11486
50°	12912	11673	10787
55°	12332	11011	10130
60°	11673	10384	9475
65°	10971	9685	8815
70°	10195	8902	7975
75°	9273	8055	7221
80°	8295	7051	6550
85°	6375	5795	4776

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13380 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	2.0
10°-20°	248.3	5.6
20°-30°	357.0	8.0
30°-40°	401.2	9.0
40°-50°	387.6	8.7
50°-60°	327.5	7.4
60°-70°	235.2	5.3
70°-80°	128.6	2.9
80°-90°	34.2	0.8
90°-100°	33.7	0.8
100°-110°	139.2	3.1
110°-120°	252.6	5.7
120°-130°	343.8	7.7
130°-140°	396.9	8.9
140°-150°	400.0	9.0
150°-160°	345.2	7.8
160°-170°	233.9	5.3
170°-180°	82.5	1.9
0°-30°	694.3	15.7
0°-40°	1095.6	24.7
0°-60°	1810.7	40.8
0°-90°	2208.7	49.8
90°-120°	425.6	9.6
90°-150°	1566.2	35.3
90°-180°	2228.0	50.2
0°-180°	4436.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	936	948	937	937	944	89
15°	888	896	882	873	875	250
25°	798	798	775	758	754	367
35°	678	670	639	614	608	424
45°	543	532	500	473	466	420
55°	406	391	363	340	334	363
65°	266	256	235	218	214	264
75°	138	129	120	110	107	147
85°	32	30	29	25	24	38
90°	0	0	1	0	1	2
95°	33	29	27	21	21	38
105°	138	136	132	125	123	146
115°	262	261	256	249	248	258
125°	389	393	385	377	378	347
135°	518	524	516	506	510	399
145°	643	650	640	632	637	401
155°	752	759	748	744	750	346
165°	831	839	829	824	831	234
175°	870	880	868	863	865	83
180°	874	874	874	874	874	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.1	947.1	947.1	947.1	947.1
2.5°	940.8	952.1	943.7	944.9	946.6
5°	935.5	948.3	937.0	937.1	943.5
7.5°	928.9	940.9	926.7	924.1	930.0
10°	919.6	931.6	917.4	912.4	916.7
12.5°	907.4	918.9	905.2	897.3	901.0
15°	887.7	895.5	881.9	873.2	874.6
17.5°	866.2	871.0	851.4	844.1	842.7
20°	850.0	854.2	831.1	820.9	819.5
22.5°	829.1	832.8	808.5	796.0	794.0
25°	797.7	798.5	775.3	757.8	753.5
27.5°	765.0	762.7	737.0	716.2	710.7
30°	741.2	738.3	708.5	686.7	681.7
32.5°	715.6	710.5	680.7	657.1	652.1
35°	678.1	670.3	638.9	614.1	608.5
37.5°	638.1	629.3	598.5	571.5	565.1
40°	611.4	601.4	570.0	543.0	536.7
42.5°	584.7	573.6	541.6	514.6	507.7
45°	543.2	531.8	499.7	473.4	466.3
47.5°	503.7	489.3	458.1	431.9	424.8
50°	476.5	460.9	430.8	405.2	398.1
52.5°	448.6	432.5	403.5	379.1	372.0
55°	406.1	391.2	362.6	340.0	333.6
57.5°	364.1	349.7	323.6	302.0	295.7
60°	335.1	323.0	298.1	277.6	272.0
62.5°	307.2	296.3	272.5	253.8	248.2
65°	266.2	256.2	235.0	218.2	213.9
67.5°	226.3	216.3	199.1	184.1	179.3
70°	200.2	190.2	174.8	160.9	156.6
72.5°	175.2	164.7	152.2	139.5	136.3
75°	137.8	129.3	119.7	110.2	107.3
77.5°	104.7	96.5	89.5	82.8	82.1
80°	82.7	75.6	70.3	66.0	65.3
82.5°	61.8	56.4	52.9	49.7	49.6
85°	31.9	29.8	29.0	25.4	23.9
87.5°	9.3	9.3	8.3	7.0	7.1
90°	0.0	0.0	0.7	0.0	0.7
92.5°	8.2	7.1	6.7	4.4	5.0
95°	32.7	28.7	27.3	21.1	21.1
97.5°	61.7	57.7	55.6	49.3	48.0
100°	82.4	78.5	76.3	69.5	68.1
102.5°	103.7	101.8	98.1	90.7	89.4
105°	137.6	135.6	132.2	124.7	123.3
107.5°	172.5	172.9	167.8	161.6	159.7
110°	197.6	196.9	192.8	186.7	185.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	223.2	222.0	217.9	211.7	210.4
115°	261.7	261.0	256.2	248.7	248.0
117.5°	298.2	300.3	294.6	286.7	286.5
120°	324.3	327.0	320.3	313.4	312.1
122.5°	350.0	353.2	346.4	338.5	338.8
125°	389.1	393.1	385.0	376.8	377.5
127.5°	426.8	431.8	424.2	415.9	416.7
130°	452.4	458.4	450.4	441.6	442.9
132.5°	478.6	484.6	476.6	467.2	469.6
135°	518.5	524.5	515.8	506.4	509.7
137.5°	556.2	562.2	552.6	544.7	548.7
140°	581.2	587.2	577.1	569.7	573.7
142.5°	605.8	612.8	602.2	594.3	599.4
145°	642.6	649.9	639.8	632.4	637.1
147.5°	677.4	684.8	674.6	667.5	672.3
150°	699.8	707.1	696.4	690.4	695.7
152.5°	720.5	728.9	717.6	711.7	718.6
155°	751.6	758.9	748.2	743.5	749.5
157.5°	778.6	787.1	776.4	772.4	777.2
160°	796.6	804.5	793.8	789.9	795.2
162.5°	810.2	818.7	808.5	804.1	810.5
165°	830.6	839.3	828.6	824.0	831.3
167.5°	846.7	855.9	845.1	840.3	847.8
170°	856.5	865.2	853.8	848.5	856.5
172.5°	863.1	872.3	860.3	855.0	860.3
175°	870.1	879.5	868.1	862.7	864.7
177.5°	873.5	881.0	871.9	867.2	873.5
180°	873.5	873.5	873.5	873.5	873.5



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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	16.72	17.57	17.68	18.54	19.82	15.62	16.47	16.58	17.44	18.72
	3H	18.36	19.12	19.34	20.11	21.40	17.15	17.91	18.12	18.89	20.19
	4H	18.99	19.71	19.98	20.70	22.00	17.72	18.44	18.71	19.43	20.73
	6H	19.39	20.06	20.39	21.05	22.37	18.09	18.75	19.09	19.75	21.06
	8H	19.54	20.17	20.54	21.18	22.50	18.23	18.86	19.23	19.87	21.19
	12H	19.62	20.21	20.62	21.22	22.56	18.29	18.89	19.30	19.90	21.23
4H	2H	17.13	17.85	18.12	18.83	20.14	16.25	16.97	17.25	17.96	19.27
	3H	19.00	19.59	20.00	20.61	21.93	17.99	18.59	18.99	19.60	20.92
	4H	19.74	20.29	20.75	21.30	22.64	18.66	19.21	19.67	20.22	21.56
	6H	20.26	20.73	21.28	21.76	23.10	19.13	19.61	20.16	20.64	21.98
	8H	20.46	20.90	21.49	21.93	23.29	19.32	19.76	20.35	20.79	22.15
	12H	20.57	20.97	21.61	22.01	23.37	19.41	19.81	20.45	20.85	22.21
8H	4H	19.90	20.34	20.92	21.36	22.72	18.93	19.37	19.95	20.40	21.75
	6H	20.54	20.90	21.58	21.97	23.32	19.54	19.90	20.58	20.97	22.32
	8H	20.83	21.15	21.88	22.20	23.57	19.81	20.13	20.87	21.18	22.56
	12H	21.00	21.28	22.06	22.33	23.75	19.96	20.24	21.02	21.29	22.70
12H	4H	19.88	20.27	20.92	21.31	22.67	18.94	19.33	19.98	20.37	21.73
	6H	20.57	20.89	21.62	21.94	23.31	19.60	19.92	20.65	20.97	22.34
	8H	20.88	21.16	21.94	22.21	23.63	19.90	20.19	20.96	21.23	22.65