

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: P824240

Luminaire Tested: CB2-0U-XD-840-B10-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824240
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: CB2-0U-XD-840-B10-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE
2-INCH APERTURE
DOWNLIGHT UNDER 10W BATTERY POWER
DIRECT ONLY
Light Source: 80 CRI, 4000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1113.7 lumens
Efficiency: N/A
Efficacy: 111.4 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: Direct

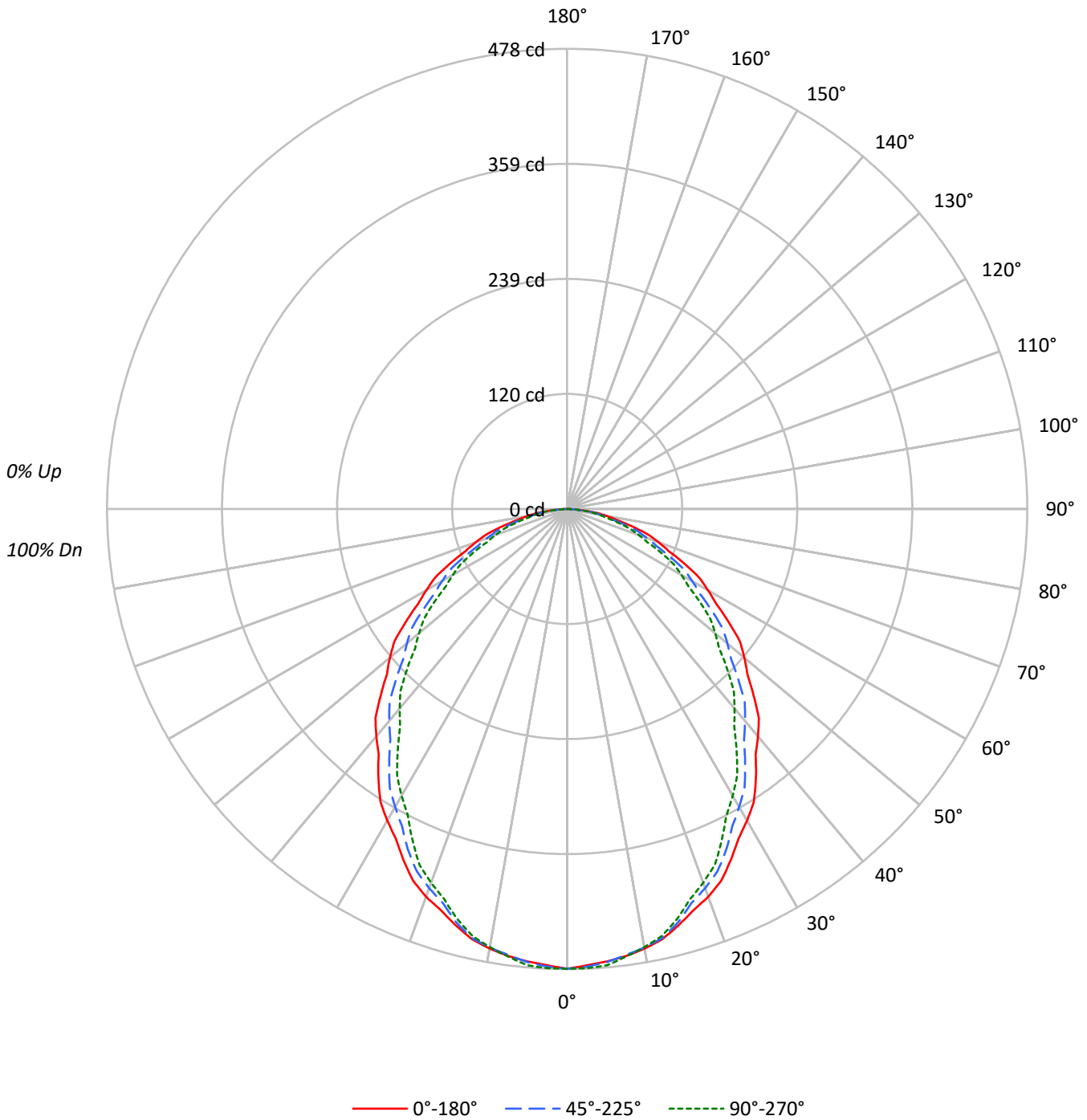
Input Watts (W): 10
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61					61			
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53					53			
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46					46			
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41					41			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36					36			
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33					33			
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29					29			
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8319	8319	8319
5°	8249	8261	8319
10°	8201	8182	8174
15°	8071	8019	7952
20°	7944	7768	7659
25°	7731	7512	7303
30°	7516	7186	6914
35°	7270	6851	6523
40°	7010	6535	6153
45°	6747	6207	5791
50°	6511	5885	5441
55°	6219	5551	5108
60°	5887	5236	4776
65°	5531	4884	4447
70°	5138	4486	4023
75°	4677	4058	3641
80°	4183	3561	3300
85°	3217	2918	2418

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6747 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	4.0
10°-20°	125.2	11.2
20°-30°	180.0	16.2
30°-40°	202.3	18.2
40°-50°	195.4	17.5
50°-60°	165.1	14.8
60°-70°	118.6	10.6
70°-80°	64.8	5.8
80°-90°	17.2	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	350.1	31.4
0°-40°	552.5	49.6
0°-60°	913.1	82.0
0°-90°	1113.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1113.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	478	478	478	478	478	
5°	472	478	472	473	476	45
15°	448	452	445	440	441	126
25°	402	403	391	382	380	185
35°	342	338	322	310	307	214
45°	274	268	252	239	235	212
55°	205	197	183	171	168	183
65°	134	129	118	110	108	133
75°	70	65	60	56	54	74
85°	16	15	15	13	12	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	477.6	477.6	477.6	477.6	477.6
2.5°	474.4	480.1	475.8	476.5	477.3
5°	471.8	478.2	472.5	472.6	475.8
7.5°	468.4	474.5	467.3	466.0	469.0
10°	463.7	469.8	462.6	460.1	462.2
12.5°	457.6	463.4	456.5	452.5	454.3
15°	447.6	451.5	444.7	440.3	441.0
17.5°	436.8	439.2	429.3	425.7	424.9
20°	428.6	430.7	419.1	414.0	413.2
22.5°	418.1	419.9	407.7	401.4	400.4
25°	402.3	402.6	390.9	382.1	380.0
27.5°	385.7	384.6	371.6	361.2	358.4
30°	373.7	372.3	357.3	346.3	343.8
32.5°	360.9	358.3	343.2	331.3	328.8
35°	341.9	338.0	322.2	309.7	306.8
37.5°	321.7	317.3	301.8	288.2	285.0
40°	308.3	303.3	287.4	273.8	270.6
42.5°	294.8	289.2	273.1	259.5	256.0
45°	273.9	268.2	252.0	238.7	235.1
47.5°	254.0	246.7	231.0	217.8	214.2
50°	240.3	232.4	217.2	204.3	200.8
52.5°	226.2	218.1	203.5	191.2	187.6
55°	204.8	197.3	182.8	171.4	168.2
57.5°	183.6	176.4	163.2	152.3	149.1
60°	169.0	162.9	150.3	140.0	137.1
62.5°	154.9	149.4	137.4	128.0	125.1
65°	134.2	129.2	118.5	110.0	107.9
67.5°	114.1	109.1	100.4	92.8	90.4
70°	100.9	95.9	88.1	81.1	79.0
72.5°	88.4	83.1	76.7	70.3	68.8
75°	69.5	65.2	60.3	55.6	54.1
77.5°	52.8	48.7	45.1	41.8	41.4
80°	41.7	38.1	35.5	33.3	32.9
82.5°	31.2	28.4	26.7	25.1	25.0
85°	16.1	15.0	14.6	12.8	12.1
87.5°	4.7	4.7	4.1	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0

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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	18.21	19.79	18.58	20.11	20.42	17.11	18.69	17.48	19.01	19.32
	3H	19.91	21.33	20.28	21.66	22.02	18.69	20.11	19.07	20.44	20.80
	4H	20.57	21.90	20.96	22.25	22.63	19.29	20.63	19.69	20.98	21.36
	6H	21.00	22.24	21.41	22.61	23.00	19.70	20.94	20.11	21.30	21.69
	8H	21.17	22.35	21.60	22.74	23.14	19.86	21.04	20.28	21.43	21.83
	12H	21.27	22.40	21.70	22.78	23.21	19.94	21.07	20.37	21.46	21.89
4H	2H	18.70	20.04	19.10	20.39	20.76	17.83	19.16	18.22	19.51	19.89
	3H	20.63	21.75	21.04	22.15	22.55	19.62	20.74	20.03	21.14	21.54
	4H	21.40	22.41	21.84	22.83	23.26	20.32	21.33	20.75	21.75	22.18
	6H	21.96	22.84	22.42	23.28	23.74	20.84	21.72	21.29	22.16	22.61
	8H	22.18	23.00	22.64	23.45	23.91	21.04	21.86	21.50	22.31	22.77
	12H	22.32	23.06	22.80	23.54	24.01	21.16	21.90	21.64	22.38	22.85
8H	4H	21.61	22.44	22.08	22.88	23.35	20.65	21.47	21.11	21.92	22.38
	6H	22.28	22.97	22.78	23.46	23.93	21.28	21.96	21.78	22.45	22.93
	8H	22.58	23.19	23.09	23.70	24.19	21.56	22.17	22.07	22.68	23.17
	12H	22.79	23.33	23.29	23.82	24.38	21.75	22.29	22.25	22.78	23.34
12H	4H	21.63	22.36	22.11	22.84	23.31	20.69	21.42	21.17	21.90	22.37
	6H	22.32	22.93	22.83	23.44	23.92	21.35	21.96	21.86	22.47	22.96
	8H	22.67	23.21	23.18	23.70	24.26	21.69	22.23	22.20	22.72	23.28