

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: P824324

Luminaire Tested: CB3-085D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824324  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-3, G2-2312-242-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB3-085D-840-1D-UNV-STD-W-4  
Description: CORELITE BRYX SLOT LED LUMINAIRE  
3-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 80 CRI, 4000K CCT LEDS  
Ballast/Driver: -

**Summary**

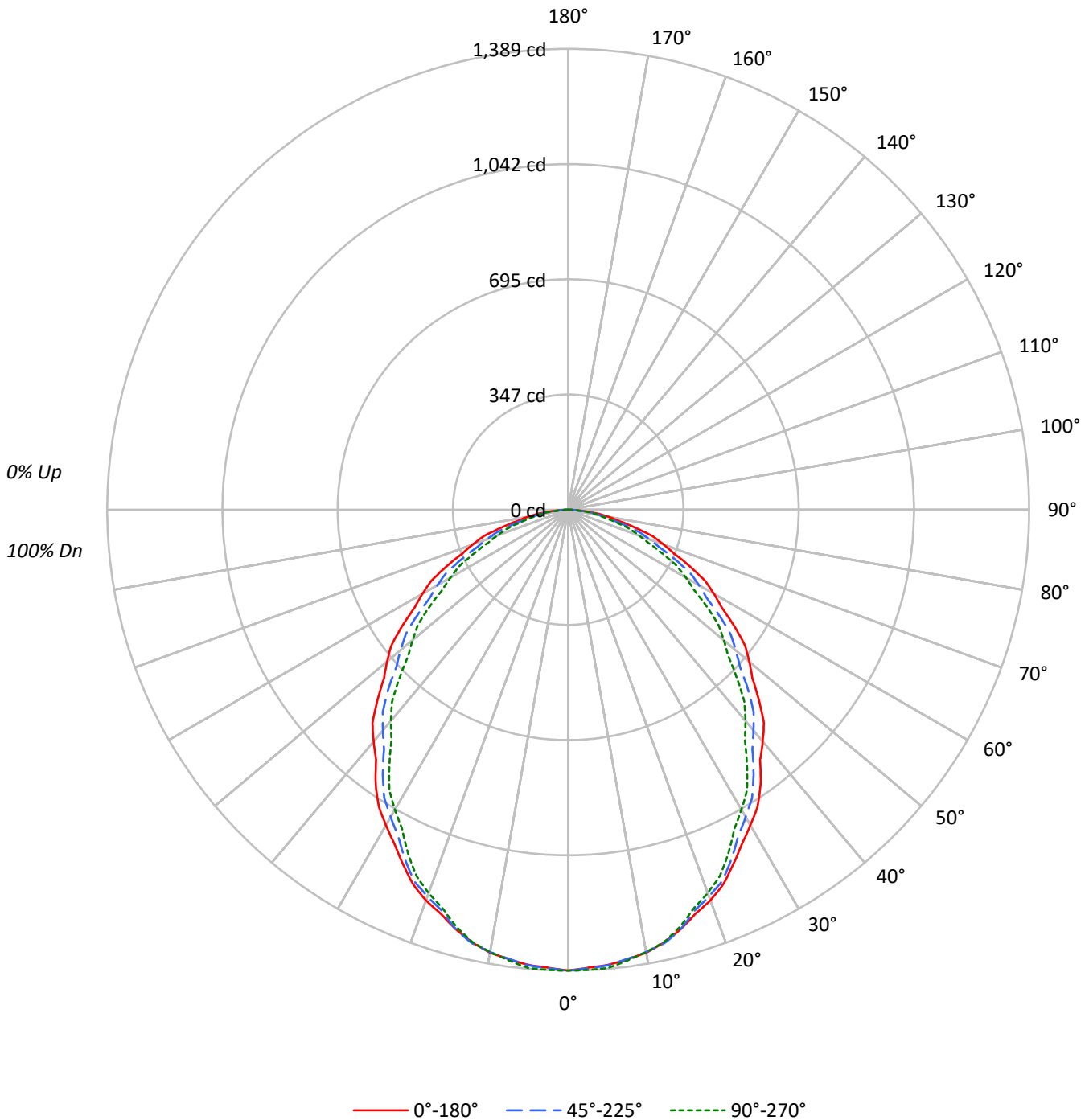
Lumens per Lamp: N/A  
Luminaire Lumens: 3326.0 lumens  
Efficiency: N/A  
Efficacy: 128.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 0.24' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.9  
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					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	96	98	95	93	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	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53					53			
5	78	65	56	50	75	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	54	48	43	53	47	43	41					41			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36					36			
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32					32			
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29					29			
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27					27			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15718	15718	15718
5°	15644	15656	15745
10°	15576	15553	15553
15°	15337	15337	15244
20°	15088	14933	14803
25°	14708	14523	14265
30°	14348	13973	13638
35°	13969	13451	12974
40°	13466	12825	12271
45°	13009	12267	11510
50°	12540	11602	10767
55°	12029	10958	10062
60°	11475	10294	9267
65°	10830	9536	8425
70°	10087	8651	7506
75°	9145	7593	6684
80°	7969	6366	5916
85°	6153	5375	5375

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13009 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.1	3.9
10°-20°	368.2	11.1
20°-30°	535.0	16.1
30°-40°	608.3	18.3
40°-50°	590.5	17.8
50°-60°	498.6	15.0
60°-70°	354.7	10.7
70°-80°	189.5	5.7
80°-90°	50.1	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°	1034.3	31.1
0°-40°	1642.6	49.4
0°-60°	2731.7	82.1
0°-90°	3326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3326.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1377	1395	1378	1377	1386	131
15°	1309	1321	1309	1301	1301	369
25°	1178	1182	1163	1147	1143	543
35°	1011	1002	974	945	939	630
45°	813	800	767	730	719	627
55°	610	593	556	520	510	545
65°	404	390	356	324	315	401
75°	209	198	174	156	153	223
85°	47	44	41	41	41	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1389.2	1389.2	1389.2	1389.2	1389.2
2.5°	1382.1	1396.0	1383.7	1385.4	1388.4
5°	1377.4	1394.8	1378.4	1376.6	1386.3
7.5°	1366.7	1382.6	1365.5	1361.6	1370.3
10°	1355.7	1373.0	1353.7	1348.9	1353.7
12.5°	1335.9	1354.1	1338.7	1330.7	1334.8
15°	1309.3	1320.9	1309.3	1301.4	1301.4
17.5°	1276.7	1288.9	1267.1	1261.5	1259.4
20°	1253.1	1263.7	1240.2	1232.3	1229.4
22.5°	1221.5	1231.3	1211.8	1198.3	1194.7
25°	1178.1	1181.9	1163.3	1147.4	1142.6
27.5°	1134.5	1135.4	1109.8	1090.5	1084.2
30°	1098.2	1099.1	1069.5	1048.7	1043.9
32.5°	1061.9	1059.0	1030.9	1006.1	1002.9
35°	1011.3	1001.7	973.8	945.1	939.3
37.5°	950.4	944.6	911.7	882.9	874.2
40°	911.7	902.0	868.3	839.5	830.8
42.5°	873.0	861.8	827.2	795.2	785.8
45°	813.0	800.5	766.6	729.9	719.3
47.5°	752.6	738.9	701.7	666.1	654.4
50°	712.4	697.9	659.1	624.3	611.7
52.5°	671.3	656.1	617.3	581.7	571.5
55°	609.8	593.4	555.5	519.8	510.1
57.5°	548.2	532.0	494.3	460.5	448.9
60°	507.1	491.7	454.9	421.0	409.5
62.5°	465.3	450.6	414.6	381.6	370.8
65°	404.5	390.1	356.2	324.4	314.7
67.5°	344.3	332.0	298.6	269.4	261.7
70°	304.9	293.3	261.5	234.7	226.9
72.5°	267.0	254.6	224.4	201.6	196.1
75°	209.2	197.6	173.7	155.8	152.9
77.5°	156.3	146.8	126.1	116.0	114.5
80°	122.3	113.7	97.7	90.8	90.8
82.5°	90.8	83.6	73.2	70.3	70.3
85°	47.4	43.5	41.4	41.4	41.4
87.5°	14.2	14.2	13.4	12.6	12.6
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	20.57	22.15	20.93	22.46	22.78	19.49	21.07	19.86	21.38	21.70
	3H	22.28	23.71	22.66	24.04	24.40	20.95	22.38	21.33	22.70	23.07
	4H	22.95	24.29	23.35	24.63	25.01	21.50	22.84	21.90	23.19	23.57
	6H	23.37	24.61	23.78	24.97	25.36	21.85	23.09	22.27	23.46	23.85
	8H	23.52	24.70	23.95	25.09	25.49	22.00	23.18	22.42	23.57	23.97
	12H	23.61	24.74	24.04	25.13	25.56	22.10	23.23	22.52	23.61	24.04
4H	2H	21.06	22.40	21.46	22.74	23.12	20.20	21.54	20.60	21.89	22.26
	3H	23.01	24.13	23.42	24.52	24.92	21.88	23.00	22.29	23.39	23.80
	4H	23.78	24.79	24.22	25.21	25.64	22.51	23.52	22.95	23.94	24.37
	6H	24.33	25.20	24.78	25.65	26.10	22.96	23.84	23.42	24.28	24.74
	8H	24.53	25.35	24.99	25.80	26.26	23.15	23.97	23.61	24.42	24.88
	12H	24.66	25.40	25.14	25.88	26.35	23.29	24.03	23.77	24.50	24.97
8H	4H	23.97	24.79	24.43	25.23	25.70	22.83	23.65	23.29	24.09	24.56
	6H	24.62	25.30	25.11	25.79	26.26	23.39	24.07	23.88	24.56	25.03
	8H	24.90	25.51	25.41	26.02	26.50	23.64	24.25	24.16	24.76	25.25
	12H	25.09	25.63	25.60	26.12	26.69	23.85	24.39	24.36	24.88	25.45
12H	4H	23.97	24.71	24.46	25.19	25.66	22.86	23.60	23.35	24.08	24.55
	6H	24.64	25.25	25.15	25.76	26.24	23.45	24.06	23.96	24.57	25.05
	8H	24.97	25.51	25.48	26.00	26.56	23.76	24.30	24.27	24.79	25.36