

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: P824322

Luminaire Tested: CB3R-085D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824322
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: CB3R-085D-830-1D-UNV-STD-W-4
Description: CORELITE BRYX SLOT LED LUMINAIRE
3-INCH APERTURE
DOWNLIGHT 850 LUMENS PER FOOT
DIRECT ONLY
Light Source: 80 CRI, 3000K CCT LEDS
Ballast/Driver: -

Summary

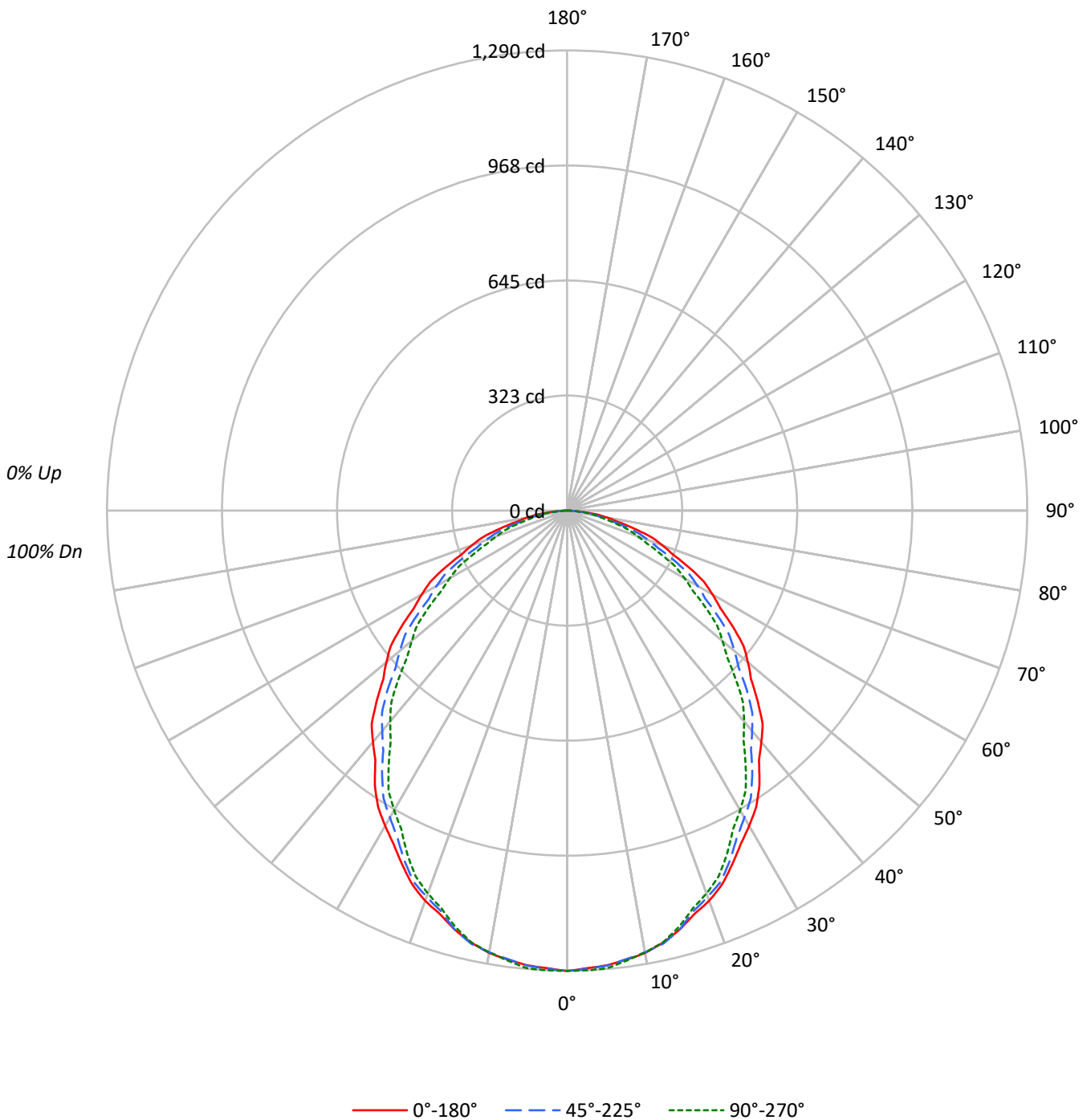
Lumens per Lamp: N/A
Luminaire Lumens: 3089.7 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.24' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.9
Input Voltage (V): 120
Input Current (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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14601	14601	14601
5°	14532	14543	14627
10°	14469	14448	14448
15°	14247	14247	14162
20°	14015	13872	13750
25°	13663	13490	13251
30°	13328	12981	12669
35°	12977	12496	12053
40°	12509	11914	11400
45°	12086	11396	10692
50°	11649	10778	10003
55°	11173	10179	9348
60°	10661	9561	8608
65°	10061	8859	7828
70°	9369	8036	6974
75°	8494	7051	6212
80°	7408	5910	5493
85°	5712	4998	4998

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12086 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	3.9
10°-20°	342.1	11.1
20°-30°	497.0	16.1
30°-40°	565.1	18.3
40°-50°	548.6	17.8
50°-60°	463.1	15.0
60°-70°	329.5	10.7
70°-80°	176.1	5.7
80°-90°	46.5	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°	960.9	31.1
0°-40°	1525.9	49.4
0°-60°	2537.6	82.1
0°-90°	3089.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3089.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1290	1290	1290	1290	1290	
5°	1280	1296	1280	1279	1288	121
15°	1216	1227	1216	1209	1209	343
25°	1094	1098	1081	1066	1061	504
35°	940	930	905	878	873	585
45°	755	744	712	678	668	583
55°	566	551	516	483	474	506
65°	376	362	331	301	292	372
75°	194	184	161	145	142	207
85°	44	40	38	38	38	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1290.5	1290.5	1290.5	1290.5	1290.5
2.5°	1283.9	1296.8	1285.4	1286.9	1289.8
5°	1279.5	1295.7	1280.4	1278.8	1287.8
7.5°	1269.6	1284.3	1268.5	1264.9	1272.9
10°	1259.4	1275.5	1257.5	1253.1	1257.5
12.5°	1241.0	1257.9	1243.6	1236.2	1239.9
15°	1216.3	1227.0	1216.3	1209.0	1209.0
17.5°	1186.0	1197.3	1177.1	1171.9	1169.9
20°	1164.0	1173.9	1152.1	1144.7	1142.0
22.5°	1134.7	1143.9	1125.7	1113.2	1109.8
25°	1094.4	1098.0	1080.6	1065.9	1061.4
27.5°	1053.9	1054.8	1031.0	1013.0	1007.1
30°	1020.1	1021.0	993.6	974.2	969.7
32.5°	986.4	983.7	957.6	934.6	931.6
35°	939.5	930.5	904.7	878.0	872.6
37.5°	882.8	877.5	846.9	820.1	812.1
40°	846.9	837.9	806.6	779.8	771.8
42.5°	811.0	800.6	768.5	738.7	730.0
45°	755.3	743.6	712.2	678.0	668.2
47.5°	699.2	686.4	651.9	618.8	607.9
50°	661.8	648.3	612.3	579.9	568.3
52.5°	623.6	609.5	573.4	540.4	530.9
55°	566.4	551.2	516.0	482.8	473.9
57.5°	509.2	494.2	459.2	427.8	417.0
60°	471.1	456.8	422.5	391.1	380.4
62.5°	432.3	418.6	385.1	354.5	344.4
65°	375.8	362.4	330.9	301.3	292.4
67.5°	319.9	308.4	277.4	250.2	243.1
70°	283.2	272.5	242.9	218.0	210.8
72.5°	248.0	236.6	208.4	187.2	182.2
75°	194.3	183.6	161.3	144.8	142.1
77.5°	145.2	136.4	117.1	107.8	106.3
80°	113.7	105.6	90.7	84.3	84.3
82.5°	84.3	77.7	68.0	65.3	65.3
85°	44.0	40.4	38.5	38.5	38.5
87.5°	13.2	13.2	12.5	11.7	11.7
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	20.31	21.89	20.68	22.21	22.52	19.23	20.82	19.60	21.13	21.44
	3H	22.03	23.45	22.41	23.78	24.14	20.70	22.12	21.07	22.45	22.81
	4H	22.69	24.03	23.09	24.38	24.75	21.25	22.58	21.64	22.93	23.31
	6H	23.11	24.35	23.52	24.71	25.11	21.60	22.84	22.01	23.20	23.59
	8H	23.27	24.45	23.69	24.84	25.24	21.74	22.92	22.17	23.31	23.71
	12H	23.36	24.49	23.79	24.87	25.30	21.84	22.97	22.27	23.35	23.78
4H	2H	20.80	22.14	21.20	22.49	22.87	19.94	21.28	20.34	21.63	22.01
	3H	22.75	23.87	23.16	24.27	24.67	21.62	22.74	22.03	23.14	23.54
	4H	23.53	24.54	23.96	24.95	25.39	22.26	23.27	22.69	23.68	24.12
	6H	24.07	24.95	24.53	25.39	25.85	22.71	23.59	23.16	24.03	24.49
	8H	24.28	25.10	24.74	25.54	26.01	22.89	23.72	23.36	24.16	24.62
	12H	24.41	25.14	24.89	25.62	26.09	23.03	23.77	23.51	24.25	24.72
8H	4H	23.71	24.53	24.17	24.98	25.44	22.57	23.39	23.03	23.84	24.30
	6H	24.36	25.04	24.85	25.53	26.01	23.13	23.81	23.62	24.30	24.78
	8H	24.64	25.25	25.15	25.76	26.25	23.39	24.00	23.90	24.51	24.99
	12H	24.84	25.38	25.34	25.87	26.43	23.60	24.14	24.10	24.63	25.19
12H	4H	23.72	24.46	24.20	24.93	25.40	22.61	23.35	23.09	23.82	24.29
	6H	24.38	24.99	24.89	25.50	25.99	23.19	23.80	23.70	24.31	24.80
	8H	24.71	25.25	25.22	25.74	26.31	23.51	24.05	24.01	24.54	25.10