

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: P824231

Luminaire Tested: CB2-120D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824231
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: CB2-120D-840-1D-UNV-STD-W-4
Description: CORELITE BRYX SLOT LED LUMINAIRE
2-INCH APERTURE
DOWNLIGHT 1200 LUMENS PER FOOT
DIRECT ONLY
Light Source: 80 CRI, 4000K CCT LEDS
Ballast/Driver: -

Summary

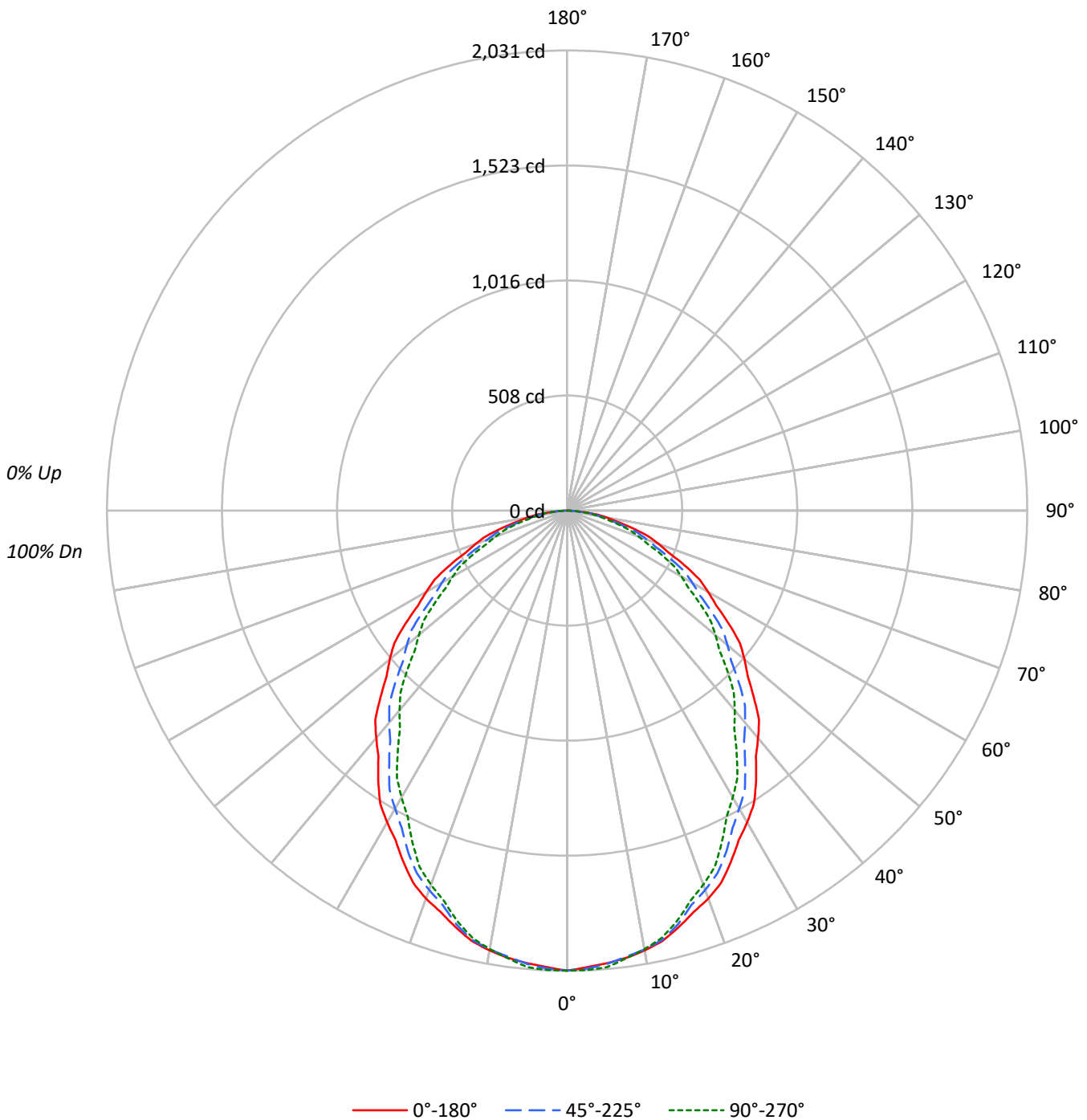
Lumens per Lamp: N/A
Luminaire Lumens: 4735.1 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.4
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	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°	35368	35368	35368
5°	35067	35122	35366
10°	34868	34785	34758
15°	34316	34091	33811
20°	33775	33026	32564
25°	32868	31942	31045
30°	31958	30550	29393
35°	30910	29126	27737
40°	29801	27787	26161
45°	28686	26388	24624
50°	27679	25026	23130
55°	26440	23607	21718
60°	25022	22259	20312
65°	23516	20763	18904
70°	21852	19082	17101
75°	19879	17261	15485
80°	17774	15126	14032
85°	13669	12430	10252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28686 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.0	4.0
10°-20°	532.3	11.2
20°-30°	765.4	16.2
30°-40°	860.2	18.2
40°-50°	831.0	17.5
50°-60°	702.1	14.8
60°-70°	504.3	10.7
70°-80°	275.6	5.8
80°-90°	73.2	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°	1488.6	31.4
0°-40°	2348.8	49.6
0°-60°	3881.9	82.0
0°-90°	4735.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4735.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2031	2031	2031	2031	2031	
5°	2006	2033	2009	2009	2023	190
15°	1903	1920	1891	1872	1875	536
25°	1710	1712	1662	1625	1615	787
35°	1454	1437	1370	1317	1304	908
45°	1165	1140	1071	1015	1000	900
55°	871	839	777	729	715	778
65°	571	549	504	468	459	566
75°	295	277	256	236	230	316
85°	68	64	62	54	51	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2030.6	2030.6	2030.6	2030.6	2030.6
2.5°	2016.9	2041.2	2023.1	2025.7	2029.3
5°	2005.7	2033.1	2008.8	2009.1	2022.8
7.5°	1991.4	2017.2	1986.7	1981.1	1993.9
10°	1971.5	1997.3	1966.8	1956.2	1965.3
12.5°	1945.4	1970.0	1940.7	1923.8	1931.7
15°	1903.1	1919.8	1890.6	1872.1	1875.1
17.5°	1857.1	1867.4	1825.3	1809.7	1806.7
20°	1822.2	1831.4	1781.8	1760.0	1756.9
22.5°	1777.5	1785.4	1733.3	1706.5	1702.2
25°	1710.3	1711.8	1662.1	1624.6	1615.4
27.5°	1640.0	1635.1	1580.0	1535.6	1523.7
30°	1589.0	1582.9	1519.0	1472.2	1461.5
32.5°	1534.3	1523.3	1459.3	1408.7	1398.1
35°	1453.7	1437.0	1369.8	1316.6	1304.5
37.5°	1367.9	1349.1	1283.0	1225.2	1211.5
40°	1310.7	1289.4	1222.1	1164.2	1150.6
42.5°	1253.5	1229.8	1161.1	1103.3	1088.4
45°	1164.6	1140.2	1071.3	1014.9	999.7
47.5°	1080.0	1049.0	982.0	926.0	910.8
50°	1021.5	988.1	923.6	868.8	853.6
52.5°	961.8	927.1	865.1	812.8	797.6
55°	870.7	838.8	777.4	728.9	715.2
57.5°	780.5	749.8	693.8	647.4	634.1
60°	718.3	692.5	639.0	595.2	583.1
62.5°	658.6	635.2	584.3	544.2	532.1
65°	570.6	549.3	503.8	467.8	458.7
67.5°	485.1	463.8	427.0	394.7	384.3
70°	429.1	407.8	374.7	345.0	335.8
72.5°	375.6	353.1	326.2	299.0	292.3
75°	295.4	277.2	256.5	236.2	230.1
77.5°	224.5	206.9	191.9	177.5	176.0
80°	177.2	162.0	150.8	141.5	139.9
82.5°	132.5	120.9	113.5	106.7	106.3
85°	68.4	63.9	62.2	54.3	51.3
87.5°	19.9	19.9	17.4	14.9	14.9
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	23.24	24.82	23.60	25.13	25.45	22.14	23.72	22.50	24.03	24.35
	3H	24.93	26.36	25.31	26.68	27.04	23.72	25.14	24.09	25.47	25.83
	4H	25.59	26.93	25.99	27.28	27.66	24.32	25.66	24.72	26.01	26.38
	6H	26.03	27.27	26.44	27.63	28.02	24.73	25.96	25.14	26.33	26.72
	8H	26.20	27.38	26.62	27.77	28.17	24.89	26.07	25.31	26.46	26.86
	12H	26.29	27.43	26.72	27.81	28.24	24.97	26.10	25.40	26.48	26.91
4H	2H	23.73	25.07	24.13	25.41	25.79	22.85	24.19	23.25	24.54	24.92
	3H	25.66	26.78	26.07	27.17	27.57	24.65	25.77	25.06	26.17	26.57
	4H	26.43	27.44	26.86	27.85	28.29	25.35	26.36	25.78	26.77	27.21
	6H	26.99	27.87	27.44	28.31	28.77	25.86	26.74	26.32	27.19	27.64
	8H	27.21	28.03	27.67	28.48	28.94	26.07	26.89	26.53	27.33	27.80
	12H	27.35	28.09	27.83	28.56	29.03	26.19	26.93	26.67	27.40	27.87
8H	4H	26.64	27.46	27.10	27.91	28.37	25.68	26.50	26.14	26.94	27.41
	6H	27.31	27.99	27.81	28.48	28.96	26.31	26.99	26.81	27.48	27.96
	8H	27.61	28.22	28.12	28.73	29.21	26.59	27.20	27.10	27.71	28.20
	12H	27.81	28.35	28.32	28.85	29.41	26.77	27.31	27.28	27.80	28.37
12H	4H	26.66	27.39	27.14	27.87	28.34	25.71	26.45	26.20	26.93	27.40
	6H	27.34	27.96	27.86	28.47	28.95	26.38	26.99	26.89	27.50	27.98
	8H	27.70	28.24	28.20	28.73	29.29	26.72	27.26	27.23	27.75	28.31