

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: P824229

Luminaire Tested: CB2R-120D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824229
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: CB2R-120D-830-1D-UNV-STD-W-4
Description: CORELITE BRYX SLOT LED LUMINAIRE
2-INCH APERTURE
DOWNLIGHT 1200 LUMENS PER FOOT
DIRECT ONLY
Light Source: 80 CRI, 3000K CCT LEDS
Ballast/Driver: -

Summary

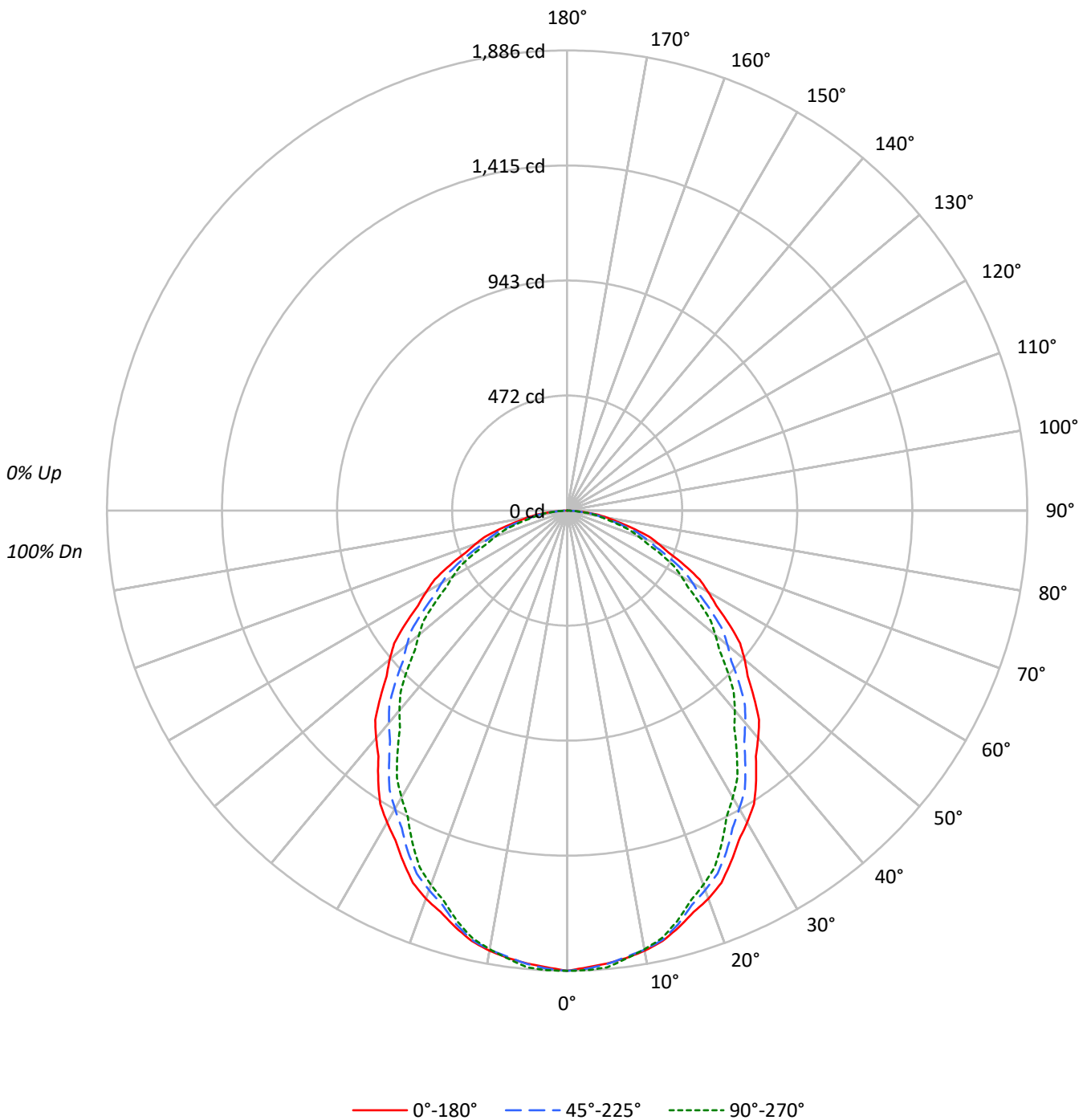
Lumens per Lamp: N/A
Luminaire Lumens: 4398.7 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	95	98	95	92	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	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	56	50	76	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	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32854	32854	32854
5°	32576	32627	32854
10°	32390	32314	32289
15°	31878	31669	31410
20°	31376	30679	30251
25°	30533	29672	28840
30°	29687	28380	27306
35°	28715	27057	25766
40°	27684	25813	24301
45°	26647	24514	22876
50°	25712	23246	21485
55°	24560	21930	20175
60°	23245	20678	18866
65°	21847	19288	17561
70°	20299	17727	15889
75°	18466	16037	14388
80°	16520	14052	13039
85°	12710	11551	9532

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26647 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	4.0
10°-20°	494.5	11.2
20°-30°	711.0	16.2
30°-40°	799.1	18.2
40°-50°	771.9	17.5
50°-60°	652.2	14.8
60°-70°	468.5	10.7
70°-80°	256.1	5.8
80°-90°	68.0	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°	1382.8	31.4
0°-40°	2182.0	49.6
0°-60°	3606.1	82.0
0°-90°	4398.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4398.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1886	1886	1886	1886	1886	
5°	1863	1889	1866	1866	1879	177
15°	1768	1783	1756	1739	1742	498
25°	1589	1590	1544	1509	1501	731
35°	1350	1335	1272	1223	1212	844
45°	1082	1059	995	943	929	836
55°	809	779	722	677	664	723
65°	530	510	468	435	426	526
75°	274	258	238	219	214	294
85°	64	59	58	50	48	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1886.3	1886.3	1886.3	1886.3	1886.3
2.5°	1873.6	1896.2	1879.4	1881.8	1885.2
5°	1863.2	1888.6	1866.1	1866.4	1879.1
7.5°	1849.9	1873.9	1845.6	1840.4	1852.2
10°	1831.4	1855.4	1827.1	1817.2	1825.7
12.5°	1807.2	1830.0	1802.8	1787.1	1794.5
15°	1767.9	1783.4	1756.3	1739.1	1741.9
17.5°	1725.1	1734.7	1695.7	1681.2	1678.3
20°	1692.8	1701.2	1655.2	1634.9	1632.1
22.5°	1651.2	1658.5	1610.2	1585.2	1581.3
25°	1588.8	1590.2	1544.0	1509.1	1500.7
27.5°	1523.5	1519.0	1467.7	1426.5	1415.5
30°	1476.1	1470.5	1411.1	1367.6	1357.7
32.5°	1425.3	1415.1	1355.7	1308.6	1298.8
35°	1350.5	1334.9	1272.5	1223.1	1211.8
37.5°	1270.7	1253.2	1191.9	1138.1	1125.4
40°	1217.6	1197.8	1135.3	1081.5	1068.8
42.5°	1164.4	1142.4	1078.6	1024.9	1011.0
45°	1081.8	1059.2	995.2	942.8	928.7
47.5°	1003.2	974.4	912.2	860.2	846.1
50°	948.9	917.9	857.9	807.1	792.9
52.5°	893.5	861.3	803.6	755.1	740.9
55°	808.8	779.2	722.2	677.1	664.4
57.5°	725.1	696.5	644.5	601.4	589.0
60°	667.3	643.3	593.6	552.9	541.6
62.5°	611.8	590.1	542.8	505.6	494.3
65°	530.1	510.3	468.0	434.6	426.1
67.5°	450.6	430.9	396.6	366.6	357.0
70°	398.6	378.9	348.1	320.5	312.0
72.5°	349.0	328.1	303.0	277.8	271.5
75°	274.4	257.5	238.3	219.4	213.8
77.5°	208.6	192.2	178.2	164.9	163.5
80°	164.7	150.5	140.1	131.4	130.0
82.5°	123.1	112.3	105.4	99.1	98.8
85°	63.6	59.3	57.8	50.5	47.7
87.5°	18.5	18.5	16.2	13.9	13.9
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	22.98	24.56	23.35	24.88	25.19	21.88	23.46	22.25	23.78	24.09
	3H	24.68	26.10	25.05	26.43	26.79	23.46	24.88	23.84	25.21	25.57
	4H	25.34	26.67	25.74	27.02	27.40	24.06	25.40	24.46	25.75	26.13
	6H	25.77	27.01	26.19	27.38	27.77	24.47	25.71	24.88	26.07	26.47
	8H	25.94	27.12	26.37	27.51	27.91	24.63	25.81	25.06	26.20	26.60
	12H	26.04	27.17	26.47	27.55	27.98	24.72	25.85	25.15	26.23	26.66
4H	2H	23.47	24.81	23.87	25.16	25.54	22.60	23.94	23.00	24.28	24.66
	3H	25.40	26.52	25.81	26.92	27.32	24.39	25.51	24.80	25.91	26.31
	4H	26.18	27.18	26.61	27.60	28.04	25.09	26.10	25.53	26.52	26.95
	6H	26.73	27.61	27.19	28.05	28.51	25.61	26.49	26.06	26.93	27.39
	8H	26.95	27.78	27.42	28.22	28.69	25.81	26.64	26.28	27.08	27.55
	12H	27.09	27.83	27.57	28.31	28.78	25.93	26.67	26.42	27.15	27.62
8H	4H	26.39	27.21	26.85	27.65	28.12	25.42	26.24	25.88	26.69	27.15
	6H	27.06	27.74	27.55	28.23	28.70	26.05	26.74	26.55	27.23	27.70
	8H	27.35	27.96	27.86	28.47	28.96	26.33	26.95	26.85	27.45	27.94
	12H	27.56	28.10	28.07	28.59	29.15	26.52	27.06	27.02	27.55	28.11
12H	4H	26.40	27.14	26.88	27.61	28.08	25.46	26.20	25.94	26.67	27.14
	6H	27.09	27.70	27.60	28.21	28.70	26.12	26.73	26.63	27.24	27.73
	8H	27.44	27.98	27.95	28.47	29.03	26.46	27.00	26.97	27.49	28.06