

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: P824327

Luminaire Tested: CB3R-120D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824327
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-120D-840-1D-UNV-STD-W-4
Description: CORELITE BRYX SLOT LED LUMINAIRE
3-INCH APERTURE
DOWNLIGHT 1200 LUMENS PER FOOT
DIRECT ONLY
Light Source: 80 CRI, 4000K CCT LEDS
Ballast/Driver: -

Summary

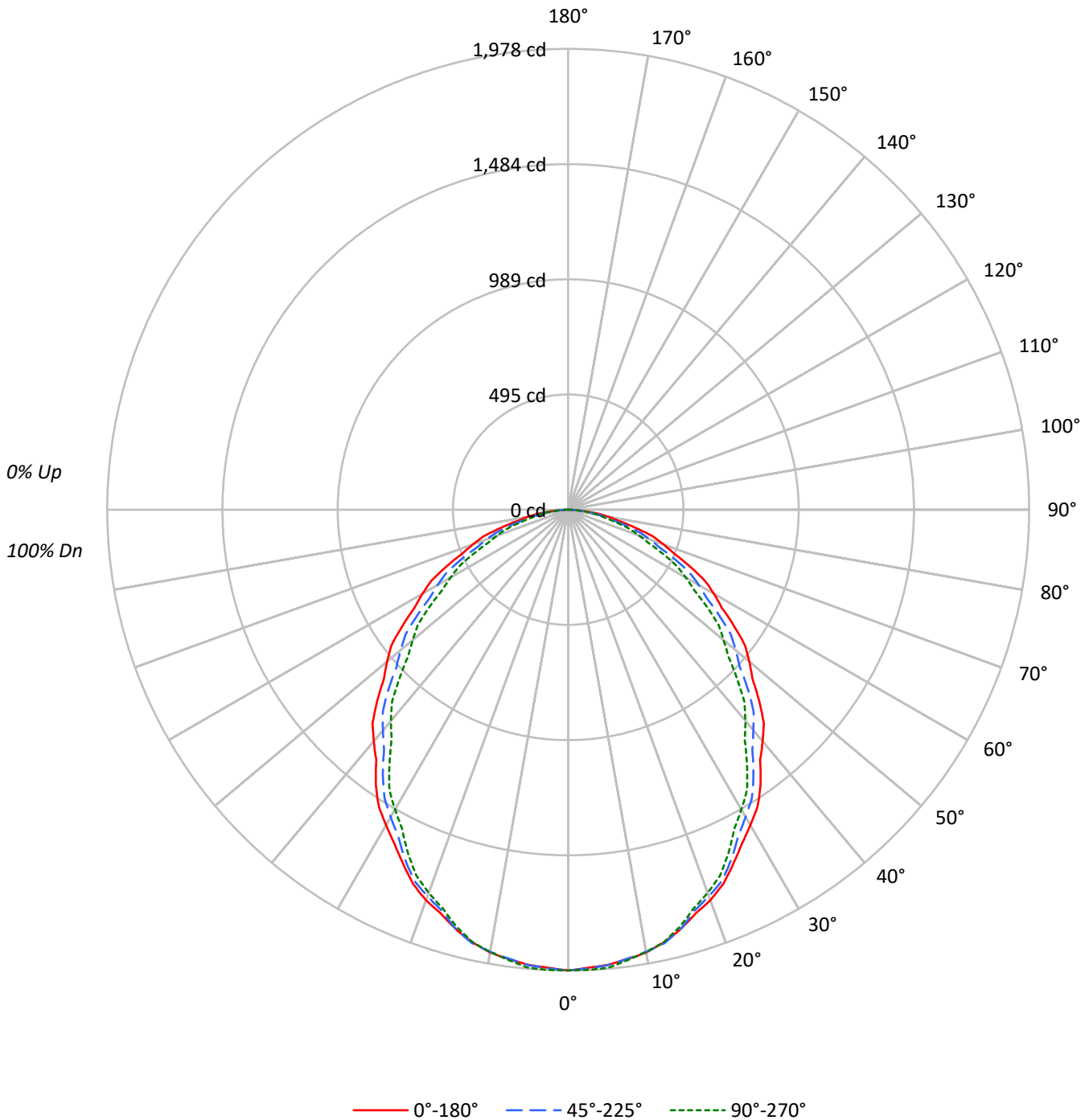
Lumens per Lamp: N/A
Luminaire Lumens: 4734.7 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.24' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.4
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

TEST NUMBER: P824327

CATALOG NUMBER: CB3R-120D-840-1D-UNV-STD-W-4

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	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°	22376	22376	22376
5°	22270	22286	22413
10°	22173	22141	22141
15°	21833	21833	21701
20°	21478	21258	21072
25°	20937	20674	20306
30°	20424	19893	19415
35°	19886	19148	18470
40°	19169	18256	17469
45°	18520	17464	16384
50°	17851	16516	15328
55°	17122	15600	14325
60°	16338	14652	13191
65°	15418	13576	11997
70°	14357	12313	10689
75°	13019	10807	9517
80°	11351	9063	8418
85°	8750	7659	7659

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18520 cd/sqm



TEST NUMBER: P824327

CATALOG NUMBER: CB3R-120D-840-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	3.9
10°-20°	524.2	11.1
20°-30°	761.6	16.1
30°-40°	865.9	18.3
40°-50°	840.6	17.8
50°-60°	709.7	15.0
60°-70°	505.0	10.7
70°-80°	269.8	5.7
80°-90°	71.3	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°	1472.5	31.1
0°-40°	2338.4	49.4
0°-60°	3888.7	82.1
0°-90°	4734.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4734.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1978	1978	1978	1978	1978	
5°	1961	1986	1962	1960	1973	186
15°	1864	1880	1864	1853	1853	525
25°	1677	1683	1656	1633	1626	773
35°	1440	1426	1386	1345	1337	897
45°	1157	1140	1091	1039	1024	893
55°	868	845	791	740	726	776
65°	576	555	507	462	448	570
75°	298	281	247	222	218	317
85°	67	62	59	59	59	83
90°	0	0	0	0	0	



TEST NUMBER: P824327

CATALOG NUMBER: CB3R-120D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1977.6	1977.6	1977.6	1977.6	1977.6
2.5°	1967.5	1987.3	1969.8	1972.1	1976.5
5°	1960.8	1985.5	1962.2	1959.7	1973.4
7.5°	1945.6	1968.1	1943.9	1938.3	1950.7
10°	1929.9	1954.6	1927.1	1920.2	1927.1
12.5°	1901.8	1927.6	1905.7	1894.3	1900.1
15°	1863.9	1880.4	1863.9	1852.6	1852.6
17.5°	1817.5	1834.8	1803.8	1795.8	1792.8
20°	1783.8	1798.9	1765.5	1754.2	1750.1
22.5°	1738.9	1752.9	1725.1	1705.9	1700.7
25°	1677.1	1682.6	1656.0	1633.4	1626.5
27.5°	1615.0	1616.4	1579.9	1552.4	1543.3
30°	1563.3	1564.7	1522.6	1492.9	1486.0
32.5°	1511.6	1507.5	1467.5	1432.3	1427.6
35°	1439.7	1426.0	1386.3	1345.4	1337.2
37.5°	1352.9	1344.6	1297.8	1256.8	1244.5
40°	1297.8	1284.1	1236.0	1195.0	1182.7
42.5°	1242.8	1226.8	1177.6	1132.1	1118.6
45°	1157.4	1139.5	1091.4	1039.0	1023.9
47.5°	1071.4	1051.9	998.9	948.3	931.5
50°	1014.1	993.5	938.3	888.7	870.8
52.5°	955.7	934.0	878.7	828.1	813.5
55°	868.0	844.7	790.8	739.9	726.2
57.5°	780.4	757.3	703.7	655.6	639.1
60°	722.0	700.0	647.5	599.4	582.9
62.5°	662.4	641.5	590.2	543.2	527.8
65°	575.9	555.3	507.1	461.8	448.1
67.5°	490.2	472.6	425.0	383.5	372.5
70°	434.0	417.5	372.2	334.0	323.1
72.5°	380.1	362.5	319.4	286.9	279.2
75°	297.8	281.3	247.2	221.8	217.7
77.5°	222.5	209.0	179.5	165.1	162.9
80°	174.2	161.8	139.1	129.2	129.2
82.5°	129.2	119.1	104.2	100.0	100.0
85°	67.4	61.9	59.0	59.0	59.0
87.5°	20.2	20.2	19.1	18.0	18.0
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	21.80	23.38	22.16	23.69	24.00	20.72	22.30	21.08	22.61	22.93
	3H	23.51	24.94	23.89	25.26	25.62	22.18	23.60	22.56	23.93	24.29
	4H	24.17	25.51	24.57	25.86	26.24	22.73	24.07	23.13	24.42	24.79
	6H	24.59	25.83	25.00	26.20	26.59	23.08	24.32	23.49	24.69	25.08
	8H	24.75	25.93	25.18	26.32	26.72	23.22	24.41	23.65	24.79	25.19
	12H	24.84	25.97	25.27	26.35	26.78	23.32	24.45	23.75	24.84	25.26
4H	2H	22.28	23.62	22.68	23.97	24.35	21.43	22.76	21.82	23.11	23.49
	3H	24.24	25.35	24.65	25.75	26.15	23.11	24.22	23.52	24.62	25.02
	4H	25.01	26.02	25.44	26.43	26.87	23.74	24.75	24.17	25.16	25.60
	6H	25.55	26.43	26.01	26.87	27.33	24.19	25.07	24.65	25.51	25.97
	8H	25.76	26.58	26.22	27.02	27.49	24.38	25.20	24.84	25.64	26.11
	12H	25.89	26.63	26.37	27.10	27.57	24.52	25.25	25.00	25.73	26.20
8H	4H	25.19	26.02	25.66	26.46	26.93	24.06	24.88	24.52	25.32	25.79
	6H	25.84	26.52	26.34	27.01	27.49	24.61	25.29	25.11	25.78	26.26
	8H	26.12	26.73	26.63	27.24	27.73	24.87	25.48	25.38	25.99	26.48
	12H	26.32	26.86	26.83	27.35	27.91	25.08	25.62	25.59	26.11	26.67
12H	4H	25.20	25.94	25.68	26.41	26.88	24.09	24.83	24.57	25.30	25.77
	6H	25.86	26.48	26.37	26.98	27.47	24.67	25.29	25.18	25.79	26.28
	8H	26.20	26.74	26.70	27.23	27.79	24.99	25.53	25.50	26.02	26.58