

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: P824325

Luminaire Tested: CB3R-120D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824325
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-830-1D-UNV-STD-W-4
Description: CORELITE BRYX SLOT LED LUMINAIRE
3-INCH APERTURE
DOWNLIGHT 1200 LUMENS PER FOOT
DIRECT ONLY
Light Source: 80 CRI, 3000K CCT LEDS
Ballast/Driver: -

Summary

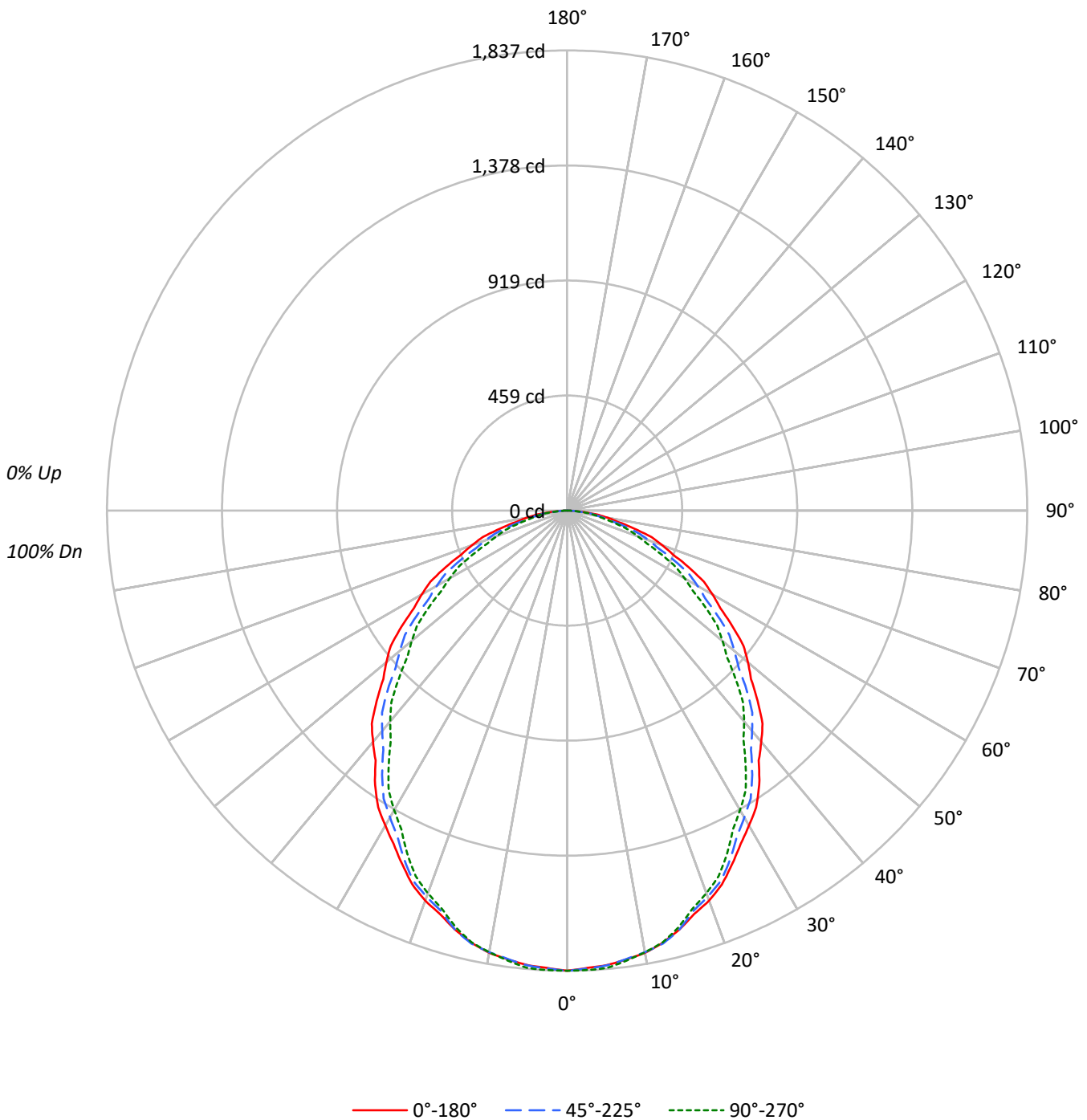
Lumens per Lamp: N/A
Luminaire Lumens: 4398.3 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.24' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	20786	20786	20786
5°	20688	20703	20821
10°	20598	20568	20568
15°	20281	20281	20159
20°	19953	19748	19576
25°	19449	19205	18862
30°	18973	18479	18036
35°	18473	17788	17158
40°	17807	16959	16226
45°	17203	16222	15220
50°	16583	15342	14240
55°	15907	14491	13307
60°	15177	13611	12254
65°	14323	12610	11143
70°	13339	11440	9928
75°	12092	10037	8839
80°	10543	8418	7819
85°	8127	7114	7114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17203 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	3.9
10°-20°	487.0	11.1
20°-30°	707.5	16.1
30°-40°	804.4	18.3
40°-50°	780.9	17.8
50°-60°	659.3	15.0
60°-70°	469.1	10.7
70°-80°	250.6	5.7
80°-90°	66.2	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°	1367.8	31.1
0°-40°	2172.2	49.4
0°-60°	3612.4	82.1
0°-90°	4398.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4398.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1837	1837	1837	1837	1837	
5°	1822	1844	1823	1820	1833	173
15°	1731	1747	1731	1721	1721	488
25°	1558	1563	1538	1517	1511	718
35°	1337	1325	1288	1250	1242	833
45°	1075	1059	1014	965	951	829
55°	806	785	735	687	675	721
65°	535	516	471	429	416	530
75°	277	261	230	206	202	295
85°	63	58	55	55	55	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1837.1	1837.1	1837.1	1837.1	1837.1
2.5°	1827.7	1846.1	1829.8	1832.0	1836.1
5°	1821.5	1844.4	1822.8	1820.5	1833.2
7.5°	1807.4	1828.3	1805.8	1800.6	1812.1
10°	1792.8	1815.7	1790.2	1783.8	1790.2
12.5°	1766.7	1790.7	1770.3	1759.8	1765.1
15°	1731.4	1746.8	1731.4	1721.0	1721.0
17.5°	1688.4	1704.5	1675.6	1668.2	1665.4
20°	1657.1	1671.1	1640.1	1629.6	1625.8
22.5°	1615.3	1628.3	1602.5	1584.7	1579.8
25°	1557.9	1563.0	1538.3	1517.3	1510.9
27.5°	1500.2	1501.5	1467.6	1442.1	1433.7
30°	1452.2	1453.5	1414.4	1386.8	1380.5
32.5°	1404.2	1400.4	1363.2	1330.5	1326.2
35°	1337.4	1324.6	1287.8	1249.8	1242.2
37.5°	1256.8	1249.1	1205.6	1167.5	1156.0
40°	1205.6	1192.9	1148.2	1110.1	1098.6
42.5°	1154.5	1139.7	1093.9	1051.6	1039.1
45°	1075.1	1058.6	1013.8	965.2	951.2
47.5°	995.3	977.2	928.0	880.9	865.3
50°	942.1	922.9	871.6	825.6	809.0
52.5°	887.8	867.6	816.3	769.3	755.7
55°	806.4	784.7	734.6	687.3	674.6
57.5°	724.9	703.5	653.7	609.0	593.7
60°	670.7	650.2	601.5	556.8	541.5
62.5°	615.3	595.9	548.3	504.6	490.3
65°	535.0	515.8	471.0	429.0	416.2
67.5°	455.4	439.0	394.8	356.2	346.0
70°	403.2	387.9	345.8	310.3	300.1
72.5°	353.1	336.7	296.7	266.5	259.4
75°	276.6	261.3	229.6	206.1	202.2
77.5°	206.7	194.2	166.8	153.4	151.4
80°	161.8	150.3	129.2	120.0	120.0
82.5°	120.0	110.6	96.8	92.9	92.9
85°	62.6	57.5	54.8	54.8	54.8
87.5°	18.8	18.8	17.7	16.7	16.7
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	21.54	23.12	21.90	23.43	23.75	20.46	22.04	20.83	22.36	22.67
	3H	23.26	24.68	23.63	25.01	25.37	21.92	23.35	22.30	23.68	24.04
	4H	23.92	25.26	24.32	25.60	25.98	22.47	23.81	22.87	24.16	24.54
	6H	24.34	25.58	24.75	25.94	26.33	22.83	24.06	23.24	24.43	24.82
	8H	24.49	25.68	24.92	26.06	26.46	22.97	24.15	23.39	24.54	24.94
	12H	24.58	25.72	25.01	26.10	26.53	23.07	24.20	23.50	24.58	25.01
4H	2H	22.03	23.37	22.43	23.72	24.09	21.17	22.51	21.57	22.86	23.23
	3H	23.98	25.10	24.39	25.49	25.90	22.85	23.97	23.26	24.37	24.77
	4H	24.76	25.76	25.19	26.18	26.62	23.48	24.49	23.92	24.91	25.34
	6H	25.30	26.18	25.75	26.62	27.07	23.93	24.81	24.39	25.26	25.71
	8H	25.50	26.33	25.96	26.77	27.23	24.12	24.94	24.58	25.39	25.85
	12H	25.63	26.37	26.11	26.85	27.32	24.26	25.00	24.74	25.47	25.94
8H	4H	24.94	25.76	25.40	26.20	26.67	23.80	24.62	24.26	25.06	25.53
	6H	25.59	26.27	26.08	26.76	27.23	24.36	25.04	24.85	25.53	26.00
	8H	25.87	26.48	26.38	26.99	27.47	24.61	25.23	25.13	25.73	26.22
	12H	26.06	26.60	26.57	27.09	27.66	24.82	25.36	25.33	25.85	26.42
12H	4H	24.95	25.68	25.43	26.16	26.63	23.84	24.57	24.32	25.05	25.52
	6H	25.61	26.22	26.12	26.73	27.21	24.42	25.03	24.93	25.54	26.02
	8H	25.94	26.48	26.45	26.97	27.53	24.73	25.27	25.24	25.76	26.33