

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: P824230

Luminaire Tested: CB2R-120D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824230
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-835-1D-UNV-STD-W-4
Description: CORELITE BRYX SLOT LED LUMINAIRE
2-INCH APERTURE
DOWNLIGHT 1200 LUMENS PER FOOT
DIRECT ONLY
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

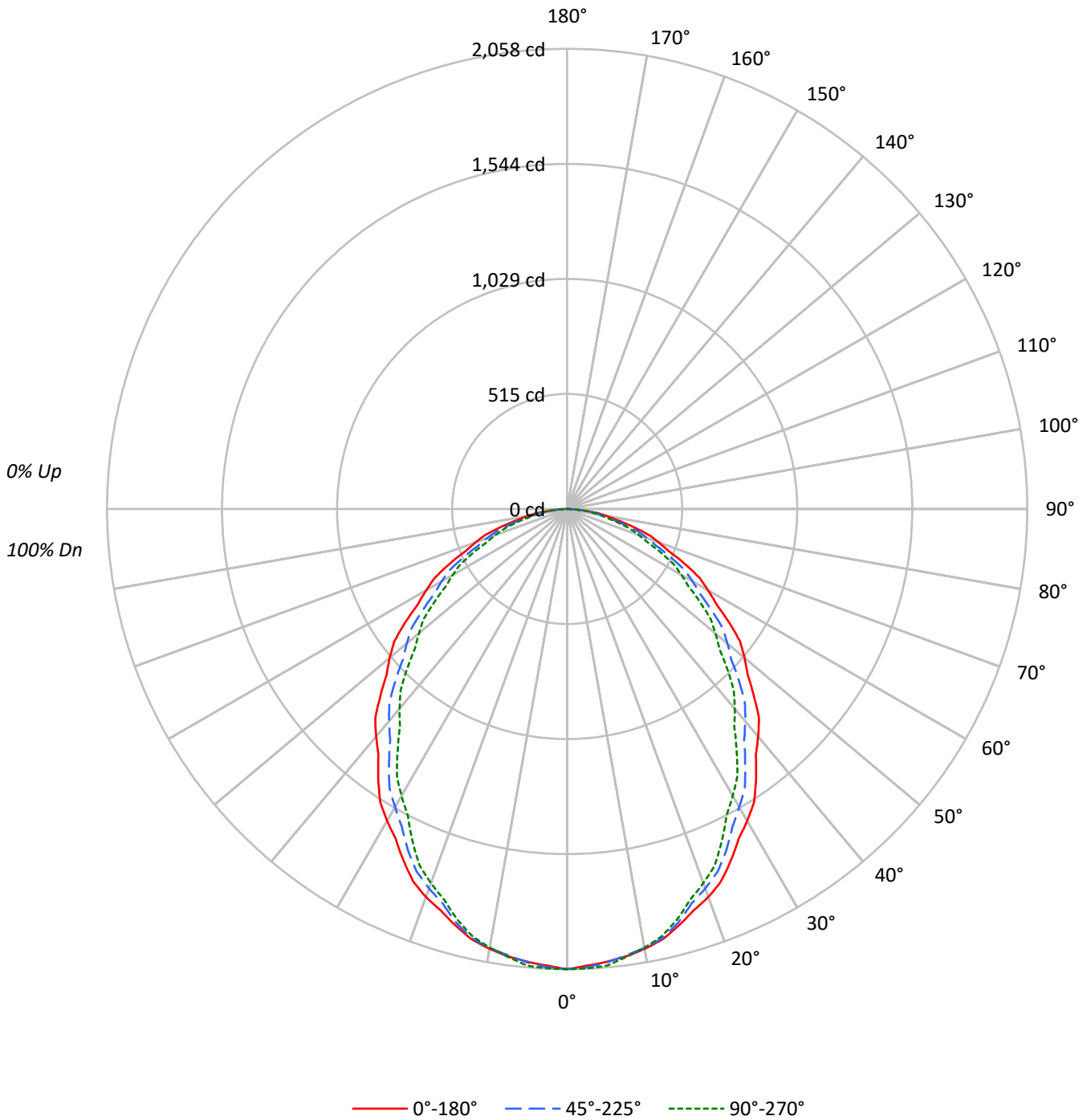
Lumens per Lamp: N/A
Luminaire Lumens: 4799.1 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	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°	35845	35845	35845
5°	35541	35597	35844
10°	35338	35255	35227
15°	34780	34552	34268
20°	34233	33473	33006
25°	33312	32373	31465
30°	32390	30964	29792
35°	31328	29519	28111
40°	30203	28162	26513
45°	29073	26743	24959
50°	28053	25362	23441
55°	26798	23926	22012
60°	25360	22562	20584
65°	23833	21043	19160
70°	22147	19341	17335
75°	20148	17497	15693
80°	18014	15336	14223
85°	13849	12590	10392

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 29073 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.5	4.0
10°-20°	539.5	11.2
20°-30°	775.7	16.2
30°-40°	871.9	18.2
40°-50°	842.2	17.5
50°-60°	711.6	14.8
60°-70°	511.1	10.7
70°-80°	279.4	5.8
80°-90°	74.2	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°	1508.7	31.4
0°-40°	2380.6	49.6
0°-60°	3934.4	82.0
0°-90°	4799.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4799.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2058	2058	2058	2058	2058	
5°	2033	2060	2036	2036	2050	193
15°	1929	1946	1916	1897	1900	544
25°	1733	1735	1684	1646	1637	798
35°	1473	1456	1388	1334	1322	920
45°	1180	1156	1086	1029	1013	912
55°	882	850	788	739	725	789
65°	578	557	511	474	465	573
75°	299	281	260	239	233	320
85°	69	65	63	55	52	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2058.0	2058.0	2058.0	2058.0	2058.0
2.5°	2044.1	2068.8	2050.5	2053.1	2056.8
5°	2032.8	2060.5	2036.0	2036.3	2050.1
7.5°	2018.3	2044.5	2013.6	2007.9	2020.8
10°	1998.1	2024.3	1993.4	1982.6	1991.8
12.5°	1971.7	1996.6	1966.9	1949.8	1957.8
15°	1928.8	1945.7	1916.2	1897.4	1900.4
17.5°	1882.2	1892.6	1850.0	1834.2	1831.1
20°	1846.9	1856.1	1805.9	1783.8	1780.7
22.5°	1801.5	1809.5	1756.7	1729.5	1725.2
25°	1733.4	1734.9	1684.5	1646.5	1637.3
27.5°	1662.2	1657.2	1601.3	1556.3	1544.3
30°	1610.5	1604.3	1539.6	1492.1	1481.3
32.5°	1555.0	1543.9	1479.1	1427.8	1417.0
35°	1473.4	1456.4	1388.3	1334.4	1322.1
37.5°	1386.4	1367.3	1300.4	1241.7	1227.9
40°	1328.4	1306.8	1238.6	1180.0	1166.1
42.5°	1270.4	1246.4	1176.8	1118.2	1103.1
45°	1180.3	1155.6	1085.7	1028.7	1013.3
47.5°	1094.6	1063.1	995.3	938.5	923.1
50°	1035.3	1001.4	936.0	880.5	865.1
52.5°	974.8	939.7	876.8	823.8	808.4
55°	882.5	850.1	787.9	738.7	724.9
57.5°	791.1	759.9	703.1	656.2	642.6
60°	728.0	701.8	647.7	603.3	590.9
62.5°	667.5	643.8	592.2	551.6	539.2
65°	578.3	556.8	510.6	474.1	464.9
67.5°	491.7	470.1	432.7	400.0	389.5
70°	434.9	413.4	379.8	349.6	340.4
72.5°	380.7	357.9	330.6	303.0	296.3
75°	299.4	280.9	260.0	239.4	233.2
77.5°	227.5	209.7	194.5	179.9	178.4
80°	179.6	164.2	152.9	143.4	141.8
82.5°	134.3	122.5	115.0	108.1	107.8
85°	69.3	64.7	63.0	55.1	52.0
87.5°	20.2	20.2	17.6	15.1	15.1
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	23.29	24.86	23.65	25.18	25.49	22.19	23.77	22.55	24.08	24.39
	3H	24.98	26.40	25.36	26.73	27.09	23.76	25.19	24.14	25.51	25.87
	4H	25.64	26.98	26.04	27.33	27.70	24.37	25.71	24.77	26.05	26.43
	6H	26.08	27.31	26.49	27.68	28.07	24.77	26.01	25.18	26.38	26.77
	8H	26.24	27.43	26.67	27.81	28.21	24.93	26.11	25.36	26.50	26.90
	12H	26.34	27.47	26.77	27.85	28.28	25.02	26.15	25.45	26.53	26.96
4H	2H	23.78	25.11	24.17	25.46	25.84	22.90	24.24	23.30	24.59	24.96
	3H	25.71	26.82	26.12	27.22	27.62	24.70	25.81	25.11	26.21	26.61
	4H	26.48	27.49	26.91	27.90	28.34	25.40	26.41	25.83	26.82	27.26
	6H	27.04	27.92	27.49	28.36	28.81	25.91	26.79	26.37	27.23	27.69
	8H	27.26	28.08	27.72	28.52	28.99	26.12	26.94	26.58	27.38	27.85
	12H	27.40	28.13	27.88	28.61	29.08	26.24	26.97	26.72	27.45	27.92
8H	4H	26.69	27.51	27.15	27.95	28.42	25.72	26.55	26.19	26.99	27.46
	6H	27.36	28.04	27.85	28.53	29.01	26.36	27.04	26.85	27.53	28.00
	8H	27.65	28.27	28.17	28.77	29.26	26.64	27.25	27.15	27.76	28.24
	12H	27.86	28.40	28.37	28.89	29.46	26.82	27.36	27.33	27.85	28.41
12H	4H	26.70	27.44	27.18	27.92	28.39	25.76	26.50	26.24	26.98	27.45
	6H	27.39	28.00	27.90	28.51	29.00	26.42	27.04	26.94	27.54	28.03
	8H	27.74	28.28	28.25	28.77	29.34	26.76	27.30	27.27	27.80	28.36