

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: P824208

Luminaire Tested: CB2-D-085U-055D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824208
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-D-085U-055D-830-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
2-INCH APERTURE
DOWNLIGHT 550 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 80 CRI, 3000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5105.6 lumens
Efficiency: N/A
Efficacy: 118.7 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: Semi-Indirect

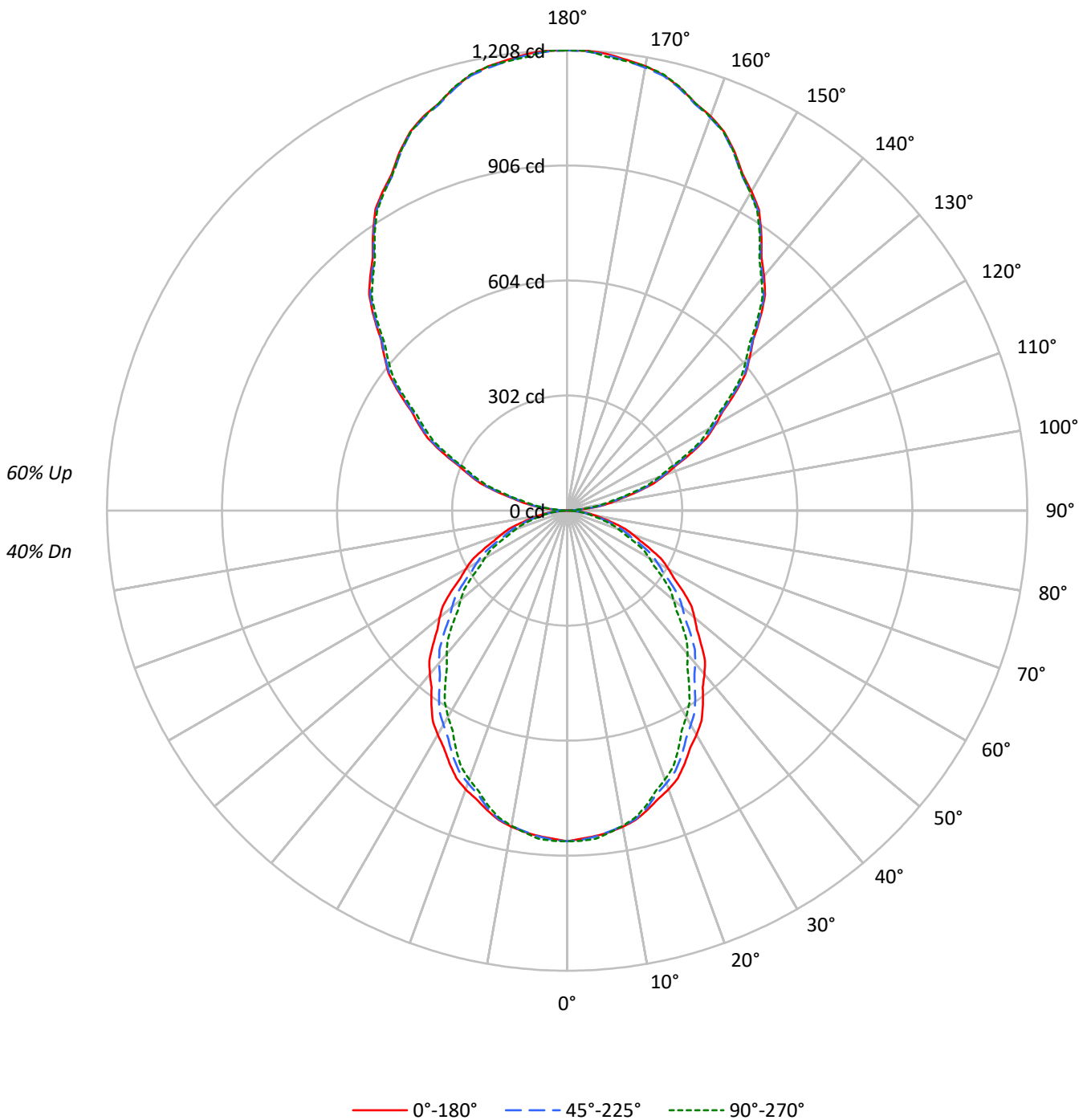
Input Watts (W): 43
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	37	35	34	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	33	30	29	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	22	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15120	15120	15120
5°	14992	15015	15120
10°	14908	14872	14860
15°	14671	14575	14454
20°	14439	14120	13922
25°	14052	13656	13272
30°	13662	13061	12566
35°	13215	12451	11858
40°	12742	11880	11184
45°	12264	11281	10528
50°	11833	10698	9888
55°	11302	10094	9286
60°	10698	9517	8684
65°	10056	8877	8082
70°	9345	8158	7313
75°	8499	7382	6622
80°	7603	6470	5998
85°	5835	5316	4377

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12264 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	1.6
10°-20°	227.6	4.5
20°-30°	327.2	6.4
30°-40°	367.8	7.2
40°-50°	355.3	7.0
50°-60°	300.2	5.9
60°-70°	215.6	4.2
70°-80°	117.8	2.3
80°-90°	31.4	0.6
90°-100°	46.7	0.9
100°-110°	192.5	3.8
110°-120°	349.4	6.8
120°-130°	475.5	9.3
130°-140°	548.9	10.8
140°-150°	553.2	10.8
150°-160°	477.4	9.3
160°-170°	323.5	6.3
170°-180°	114.1	2.2
0°-30°	636.4	12.5
0°-40°	1004.2	19.7
0°-60°	1659.6	32.5
0°-90°	2024.5	39.7
90°-120°	588.6	11.5
90°-150°	2166.2	42.4
90°-180°	3081.0	60.3
0°-180°	5105.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	858	869	859	859	865	81
15°	814	821	808	800	802	229
25°	731	732	711	694	691	337
35°	622	614	586	563	558	388
45°	498	488	458	434	427	385
55°	372	359	332	312	306	333
65°	244	235	215	200	196	242
75°	126	118	110	101	98	135
85°	29	27	27	23	22	35
90°	0	0	1	0	1	3
95°	45	40	38	29	29	53
105°	190	188	183	172	171	202
115°	362	361	354	344	343	357
125°	538	544	532	521	522	480
135°	717	726	713	700	705	552
145°	889	899	885	875	881	555
155°	1040	1050	1035	1028	1037	478
165°	1149	1161	1146	1140	1150	324
175°	1203	1216	1201	1193	1196	114
180°	1208	1208	1208	1208	1208	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	868.1	868.1	868.1	868.1	868.1
2.5°	862.3	872.7	864.9	866.0	867.6
5°	857.5	869.2	858.8	858.9	864.8
7.5°	851.4	862.4	849.4	847.0	852.4
10°	842.9	853.9	840.9	836.3	840.2
12.5°	831.7	842.2	829.7	822.5	825.8
15°	813.6	820.8	808.3	800.3	801.6
17.5°	793.9	798.4	780.4	773.7	772.4
20°	779.0	782.9	761.8	752.4	751.1
22.5°	759.9	763.3	741.0	729.6	727.7
25°	731.2	731.8	710.6	694.5	690.6
27.5°	701.1	699.1	675.5	656.5	651.4
30°	679.3	676.7	649.4	629.4	624.8
32.5°	655.9	651.3	623.9	602.3	597.7
35°	621.5	614.4	585.6	562.9	557.7
37.5°	584.8	576.8	548.5	523.8	517.9
40°	560.4	551.3	522.5	497.7	491.9
42.5°	535.9	525.8	496.4	471.7	465.3
45°	497.9	487.5	458.0	433.9	427.4
47.5°	461.7	448.5	419.8	395.9	389.4
50°	436.7	422.4	394.8	371.4	364.9
52.5°	411.2	396.4	369.8	347.5	341.0
55°	372.2	358.6	332.4	311.6	305.8
57.5°	333.7	320.6	296.6	276.8	271.1
60°	307.1	296.0	273.2	254.5	249.3
62.5°	281.6	271.6	249.8	232.7	227.5
65°	244.0	234.9	215.4	200.0	196.1
67.5°	207.4	198.3	182.5	168.7	164.3
70°	183.5	174.4	160.2	147.5	143.6
72.5°	160.6	151.0	139.5	127.8	125.0
75°	126.3	118.5	109.7	101.0	98.4
77.5°	96.0	88.4	82.0	75.9	75.2
80°	75.8	69.3	64.5	60.5	59.8
82.5°	56.6	51.7	48.5	45.6	45.5
85°	29.2	27.3	26.6	23.2	21.9
87.5°	8.5	8.5	7.6	6.4	6.6
90°	0.0	0.0	0.9	0.0	0.9
92.5°	11.3	9.8	9.2	6.1	7.0
95°	45.2	39.7	37.7	29.2	29.2
97.5°	85.4	79.9	76.9	68.2	66.3
100°	114.0	108.5	105.5	96.1	94.2
102.5°	143.4	140.9	135.7	125.5	123.6
105°	190.4	187.6	182.8	172.4	170.6
107.5°	238.6	239.2	232.0	223.5	220.9
110°	273.3	272.4	266.7	258.2	256.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	308.7	307.1	301.4	292.9	291.0
115°	361.9	361.0	354.3	344.0	343.0
117.5°	412.4	415.3	407.5	396.6	396.2
120°	448.6	452.3	442.9	433.5	431.6
122.5°	484.0	488.4	479.1	468.2	468.6
125°	538.1	543.6	532.5	521.2	522.1
127.5°	590.3	597.1	586.7	575.3	576.4
130°	625.8	634.0	622.9	610.7	612.6
132.5°	661.9	670.2	659.1	646.2	649.5
135°	717.2	725.5	713.4	700.3	704.9
137.5°	769.2	777.5	764.3	753.3	758.8
140°	803.9	812.2	798.2	788.0	793.5
142.5°	837.8	847.6	832.9	821.9	828.9
145°	888.7	898.8	884.9	874.7	881.1
147.5°	936.9	947.1	933.0	923.1	929.8
150°	967.8	978.0	963.1	954.8	962.2
152.5°	996.5	1008.1	992.5	984.3	993.9
155°	1039.5	1049.6	1034.8	1028.3	1036.6
157.5°	1076.8	1088.6	1073.8	1068.3	1074.9
160°	1101.7	1112.7	1097.9	1092.4	1099.8
162.5°	1120.5	1132.3	1118.3	1112.0	1120.9
165°	1148.8	1160.8	1146.0	1139.6	1149.7
167.5°	1171.0	1183.7	1168.8	1162.2	1172.5
170°	1184.6	1196.6	1180.8	1173.5	1184.6
172.5°	1193.6	1206.4	1189.9	1182.5	1189.9
175°	1203.4	1216.3	1200.6	1193.1	1195.9
177.5°	1208.2	1218.5	1205.9	1199.3	1208.2
180°	1208.2	1208.2	1208.2	1208.2	1208.2

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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	15.40	16.16	16.44	17.21	18.62	14.30	15.06	15.34	16.11	17.52
	3H	17.03	17.72	18.09	18.78	20.21	15.82	16.50	16.87	17.56	18.99
	4H	17.66	18.31	18.72	19.37	20.81	16.39	17.04	17.45	18.09	19.53
	6H	18.06	18.65	19.13	19.72	21.17	16.75	17.35	17.83	18.41	19.86
	8H	18.20	18.77	19.28	19.85	21.29	16.89	17.46	17.97	18.54	19.98
	12H	18.27	18.81	19.36	19.88	21.35	16.95	17.49	18.03	18.56	20.03
4H	2H	15.79	16.44	16.87	17.50	18.94	14.92	15.57	15.99	16.63	18.07
	3H	17.65	18.20	18.73	19.28	20.73	16.65	17.19	17.72	18.27	19.72
	4H	18.40	18.89	19.48	19.97	21.44	17.32	17.81	18.40	18.89	20.36
	6H	18.91	19.34	20.00	20.44	21.90	17.78	18.21	18.88	19.31	20.78
	8H	19.11	19.51	20.21	20.60	22.09	17.97	18.37	19.07	19.46	20.95
	12H	19.21	19.58	20.33	20.68	22.17	18.06	18.42	19.17	19.52	21.01
8H	4H	18.55	18.94	19.64	20.04	21.52	17.58	17.98	18.67	19.07	20.55
	6H	19.18	19.51	20.30	20.65	22.13	18.18	18.51	19.30	19.64	21.12
	8H	19.47	19.76	20.59	20.88	22.38	18.46	18.74	19.58	19.86	21.36
	12H	19.64	19.90	20.77	21.01	22.54	18.60	18.85	19.73	19.97	21.50
12H	4H	18.52	18.88	19.63	19.99	21.47	17.58	17.94	18.69	19.05	20.53
	6H	19.21	19.50	20.33	20.62	22.11	18.24	18.53	19.37	19.65	21.15
	8H	19.52	19.78	20.65	20.89	22.43	18.55	18.80	19.67	19.91	21.45