

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: P824210

Luminaire Tested: CB2-D-085U-055D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824210
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-840-1D-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, 4000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5496.1 lumens
Efficiency: N/A
Efficacy: 127.8 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

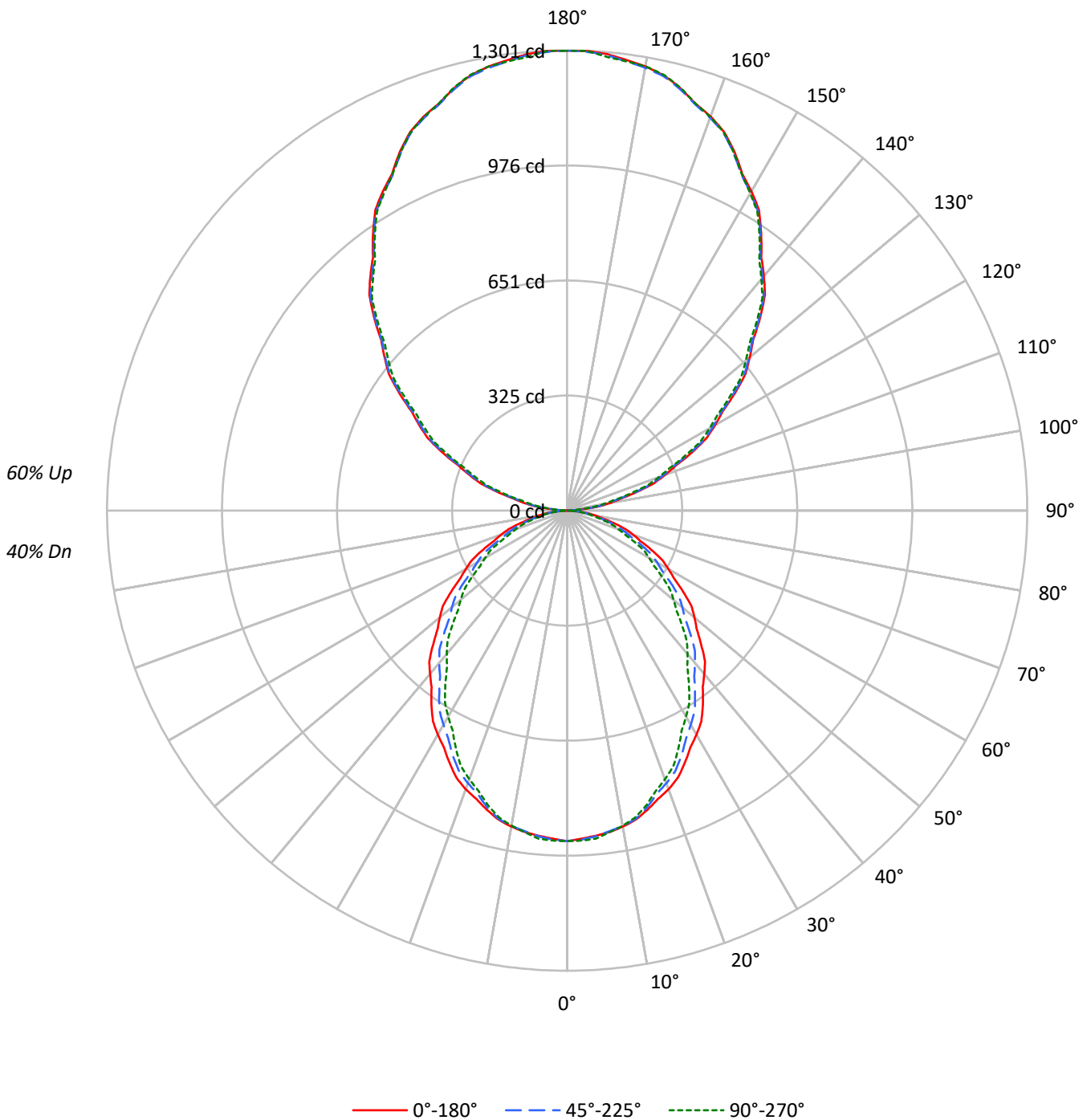
Input Watts (W): 43
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	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°	16277	16277	16277
5°	16139	16164	16276
10°	16047	16009	15997
15°	15792	15689	15561
20°	15544	15199	14988
25°	15126	14700	14289
30°	14708	14060	13527
35°	14225	13404	12764
40°	13715	12787	12039
45°	13200	12143	11333
50°	12738	11516	10644
55°	12168	10865	9997
60°	11516	10245	9346
65°	10823	9553	8700
70°	10058	8779	7873
75°	9152	7948	7127
80°	8185	6961	6459
85°	6295	5715	4716

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13200 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	1.6
10°-20°	245.0	4.5
20°-30°	352.2	6.4
30°-40°	395.9	7.2
40°-50°	382.4	7.0
50°-60°	323.1	5.9
60°-70°	232.1	4.2
70°-80°	126.9	2.3
80°-90°	33.8	0.6
90°-100°	50.2	0.9
100°-110°	207.2	3.8
110°-120°	376.2	6.8
120°-130°	511.9	9.3
130°-140°	590.9	10.8
140°-150°	595.5	10.8
150°-160°	513.9	9.3
160°-170°	348.3	6.3
170°-180°	122.9	2.2
0°-30°	685.1	12.5
0°-40°	1081.0	19.7
0°-60°	1786.5	32.5
0°-90°	2179.3	39.7
90°-120°	633.6	11.5
90°-150°	2331.8	42.4
90°-180°	3317.0	60.4
0°-180°	5496.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	923	936	924	925	931	88
15°	876	884	870	862	863	247
25°	787	788	765	748	744	362
35°	669	661	630	606	600	418
45°	536	525	493	467	460	414
55°	401	386	358	336	329	358
65°	263	253	232	215	211	260
75°	136	128	118	109	106	145
85°	32	29	29	25	24	37
90°	0	0	1	0	1	3
95°	49	43	41	31	31	57
105°	205	202	197	186	184	217
115°	390	389	381	370	369	384
125°	579	585	573	561	562	517
135°	772	781	768	754	759	595
145°	957	968	953	942	948	598
155°	1119	1130	1114	1107	1116	515
165°	1237	1250	1234	1227	1238	348
175°	1296	1309	1292	1284	1287	123
180°	1301	1301	1301	1301	1301	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	934.5	934.5	934.5	934.5	934.5
2.5°	928.2	939.4	931.1	932.3	933.9
5°	923.1	935.7	924.5	924.6	930.9
7.5°	916.5	928.4	914.3	911.7	917.6
10°	907.3	919.2	905.2	900.3	904.5
12.5°	895.3	906.6	893.2	885.4	889.0
15°	875.8	883.5	870.1	861.6	863.0
17.5°	854.7	859.4	840.1	832.9	831.5
20°	838.6	842.8	820.0	810.0	808.6
22.5°	818.0	821.7	797.7	785.3	783.4
25°	787.1	787.8	764.9	747.7	743.5
27.5°	754.8	752.5	727.1	706.7	701.2
30°	731.3	728.5	699.1	677.5	672.6
32.5°	706.1	701.1	671.6	648.3	643.4
35°	669.0	661.3	630.4	605.9	600.3
37.5°	629.5	620.9	590.5	563.9	557.6
40°	603.2	593.4	562.4	535.8	529.5
42.5°	576.9	566.0	534.4	507.7	500.9
45°	535.9	524.8	493.0	467.1	460.1
47.5°	497.0	482.8	451.9	426.2	419.2
50°	470.1	454.7	425.0	399.8	392.8
52.5°	442.6	426.7	398.1	374.1	367.1
55°	400.7	386.0	357.8	335.5	329.2
57.5°	359.2	345.1	319.3	298.0	291.8
60°	330.6	318.7	294.1	273.9	268.3
62.5°	303.1	292.3	268.9	250.5	244.9
65°	262.6	252.8	231.8	215.3	211.1
67.5°	223.3	213.5	196.5	181.6	176.9
70°	197.5	187.7	172.4	158.8	154.6
72.5°	172.9	162.5	150.1	137.6	134.5
75°	136.0	127.6	118.1	108.7	105.9
77.5°	103.3	95.2	88.3	81.7	81.0
80°	81.6	74.6	69.4	65.1	64.4
82.5°	61.0	55.6	52.2	49.1	48.9
85°	31.5	29.4	28.6	25.0	23.6
87.5°	9.2	9.2	8.2	6.9	7.1
90°	0.0	0.0	1.0	0.0	1.0
92.5°	12.2	10.6	9.9	6.5	7.5
95°	48.7	42.7	40.6	31.4	31.4
97.5°	91.9	86.0	82.8	73.4	71.4
100°	122.8	116.8	113.6	103.4	101.4
102.5°	154.4	151.6	146.1	135.1	133.1
105°	204.9	201.9	196.8	185.6	183.6
107.5°	256.9	257.5	249.8	240.6	237.8
110°	294.2	293.2	287.1	277.9	275.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	332.3	330.6	324.4	315.3	313.3
115°	389.6	388.6	381.4	370.3	369.3
117.5°	443.9	447.1	438.7	426.9	426.5
120°	482.9	486.9	476.8	466.6	464.6
122.5°	521.0	525.8	515.8	504.0	504.4
125°	579.3	585.2	573.2	561.0	562.0
127.5°	635.5	642.8	631.6	619.3	620.5
130°	673.6	682.5	670.6	657.4	659.4
132.5°	712.6	721.5	709.5	695.6	699.2
135°	772.0	780.9	768.0	753.9	758.8
137.5°	828.0	836.9	822.7	810.9	816.9
140°	865.3	874.3	859.3	848.2	854.2
142.5°	901.9	912.4	896.6	884.8	892.3
145°	956.6	967.6	952.6	941.6	948.5
147.5°	1008.6	1019.5	1004.3	993.7	1000.9
150°	1041.9	1052.8	1036.8	1027.8	1035.8
152.5°	1072.7	1085.2	1068.4	1059.5	1069.9
155°	1119.0	1129.9	1113.9	1107.0	1115.9
157.5°	1159.1	1171.8	1155.9	1150.0	1157.1
160°	1185.9	1197.8	1181.9	1176.0	1183.9
162.5°	1206.2	1218.9	1203.8	1197.1	1206.6
165°	1236.6	1249.5	1233.6	1226.7	1237.7
167.5°	1260.6	1274.3	1258.2	1251.1	1262.2
170°	1275.2	1288.1	1271.1	1263.3	1275.2
172.5°	1284.9	1298.6	1280.9	1272.9	1280.9
175°	1295.5	1309.4	1292.4	1284.4	1287.4
177.5°	1300.6	1311.7	1298.1	1291.0	1300.6
180°	1300.6	1300.6	1300.6	1300.6	1300.6



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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	15.65	16.42	16.69	17.47	18.88	14.55	15.32	15.60	16.37	17.78
	3H	17.29	17.98	18.34	19.03	20.46	16.07	16.76	17.13	17.82	19.25
	4H	17.91	18.57	18.98	19.62	21.06	16.64	17.29	17.71	18.35	19.79
	6H	18.31	18.91	19.39	19.97	21.42	17.01	17.61	18.08	18.67	20.12
	8H	18.46	19.03	19.54	20.11	21.55	17.15	17.72	18.22	18.79	20.24
	12H	18.53	19.07	19.61	20.14	21.61	17.21	17.75	18.29	18.82	20.29
4H	2H	16.05	16.70	17.12	17.76	19.20	15.17	15.83	16.25	16.88	18.32
	3H	17.91	18.45	18.99	19.54	20.99	16.90	17.44	17.98	18.53	19.98
	4H	18.65	19.15	19.74	20.23	21.70	17.57	18.07	18.66	19.14	20.62
	6H	19.17	19.59	20.26	20.69	22.16	18.04	18.47	19.13	19.57	21.03
	8H	19.37	19.77	20.46	20.86	22.34	18.23	18.63	19.32	19.72	21.20
	12H	19.47	19.83	20.58	20.94	22.42	18.31	18.67	19.42	19.78	21.26
8H	4H	18.80	19.20	19.89	20.29	21.77	17.84	18.24	18.93	19.33	20.81
	6H	19.44	19.77	20.55	20.90	22.38	18.44	18.77	19.55	19.90	21.38
	8H	19.73	20.02	20.85	21.13	22.63	18.71	19.00	19.83	20.12	21.61
	12H	19.90	20.15	21.02	21.26	22.80	18.86	19.11	19.98	20.22	21.76
12H	4H	18.78	19.14	19.89	20.24	21.73	17.84	18.20	18.95	19.30	20.79
	6H	19.47	19.76	20.59	20.87	22.37	18.50	18.79	19.62	19.90	21.40
	8H	19.78	20.03	20.91	21.14	22.68	18.80	19.05	19.93	20.17	21.70