

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: P824279

Luminaire Tested: CB3-D-030U-085D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824279
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: CB3-D-030U-085D-840-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
3-INCH APERTURE
DOWNLIGHT 850 LUMENS PER FOOT
UPLIGHT 300 LUMENS PER FOOT
Light Source: 80 CRI, 4000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4464.7 lumens
Efficiency: N/A
Efficacy: 132.1 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: Semi-Direct

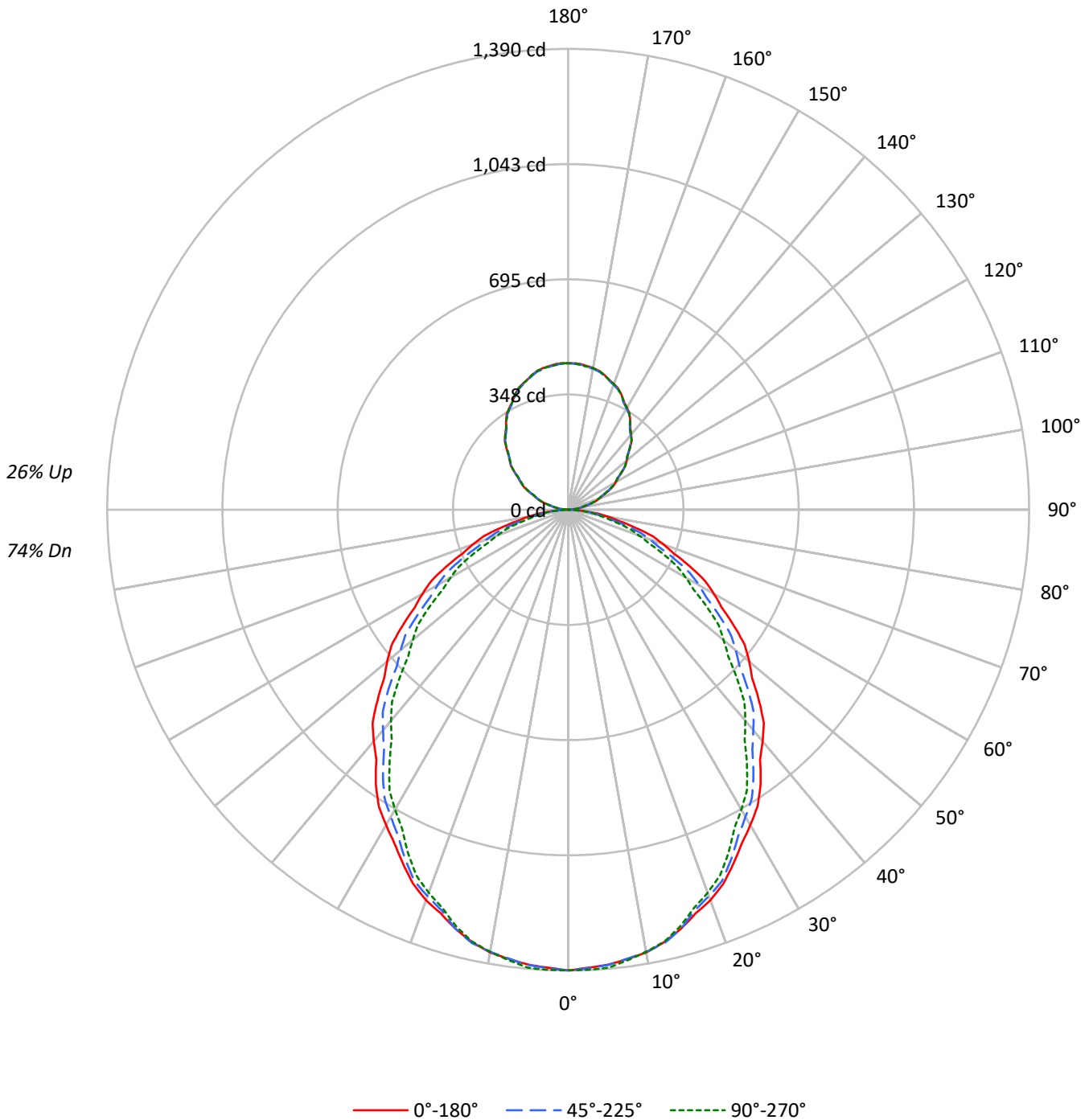
Input Watts (W): 33.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	79	79	79	79	79	79	74														
1	104	99	95	92	98	94	91	88	86	83	80	77	75	74	70	68	67	67	67	67	67	67	67	63														
2	95	87	81	75	90	83	77	73	75	71	67	68	65	62	62	59	57	57	57	57	57	57	57	53														
3	86	77	69	63	82	73	66	61	67	61	57	61	56	53	55	52	49	49	49	49	49	49	49	46														
4	79	68	60	54	75	65	58	52	60	53	49	54	49	45	49	45	42	42	42	42	42	42	42	39														
5	73	61	53	47	69	58	51	45	54	47	42	49	44	40	45	40	37	37	37	37	37	37	37	34														
6	67	55	47	41	64	53	45	39	48	42	37	44	39	35	41	36	33	33	33	33	33	33	33	30														
7	63	50	42	36	59	48	40	35	44	38	33	41	35	31	37	33	29	29	29	29	29	29	29	27														
8	58	46	38	32	55	44	36	31	40	34	30	37	32	28	34	30	26	26	26	26	26	26	26	24														
9	54	42	34	29	52	40	33	28	37	31	27	34	29	25	32	27	24	24	24	24	24	24	24	22														
10	51	38	31	26	48	37	30	25	34	28	24	32	27	23	29	25	22	22	22	22	22	22	22	20														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15723	15723	15723
5°	15648	15659	15752
10°	15579	15556	15556
15°	15340	15340	15249
20°	15092	14938	14803
25°	14708	14523	14265
30°	14348	13973	13638
35°	13969	13451	12974
40°	13466	12825	12271
45°	13009	12267	11510
50°	12540	11602	10767
55°	12029	10958	10062
60°	11475	10294	9267
65°	10830	9536	8425
70°	10087	8651	7506
75°	9145	7593	6684
80°	7969	6366	5916
85°	6153	5375	5375

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13009 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	2.9
10°-20°	368.3	8.3
20°-30°	535.1	12.0
30°-40°	608.3	13.6
40°-50°	590.5	13.2
50°-60°	498.6	11.2
60°-70°	354.7	7.9
70°-80°	189.5	4.2
80°-90°	50.1	1.1
90°-100°	18.7	0.4
100°-110°	73.0	1.6
110°-120°	130.2	2.9
120°-130°	176.1	3.9
130°-140°	202.5	4.5
140°-150°	203.2	4.6
150°-160°	174.8	3.9
160°-170°	118.3	2.6
170°-180°	41.7	0.9
0°-30°	1034.5	23.2
0°-40°	1642.8	36.8
0°-60°	2731.9	61.2
0°-90°	3326.2	74.5
90°-120°	221.9	5.0
90°-150°	803.7	18.0
90°-180°	1139.0	25.5
0°-180°	4464.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1378	1395	1379	1377	1387	131
15°	1310	1321	1310	1302	1302	369
25°	1178	1182	1163	1147	1143	543
35°	1011	1002	974	945	939	630
45°	813	800	767	730	719	627
55°	610	593	556	520	510	545
65°	404	390	356	324	315	401
75°	209	198	174	156	153	223
85°	47	44	41	41	41	56
90°	0	0	0	0	0	3
95°	18	16	15	14	14	20
105°	71	70	68	67	66	76
115°	133	133	130	130	130	132
125°	198	200	196	195	196	177
135°	264	266	262	260	262	203
145°	326	329	324	322	325	204
155°	381	384	378	376	380	175
165°	421	424	419	416	421	119
175°	441	445	439	436	438	42
180°	442	442	442	442	442	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.6	1389.6	1389.6	1389.6	1389.6
2.5°	1382.5	1396.4	1384.0	1385.7	1388.8
5°	1377.7	1395.1	1378.7	1377.0	1386.9
7.5°	1367.1	1382.9	1365.9	1361.9	1370.6
10°	1356.0	1373.4	1354.0	1349.2	1354.0
12.5°	1336.3	1354.4	1339.1	1331.1	1335.1
15°	1309.6	1321.2	1309.6	1301.8	1301.8
17.5°	1277.1	1289.2	1267.4	1261.8	1259.7
20°	1253.4	1264.0	1240.6	1232.6	1229.4
22.5°	1221.8	1231.7	1212.2	1198.4	1194.7
25°	1178.1	1181.9	1163.3	1147.4	1142.6
27.5°	1134.5	1135.4	1109.8	1090.5	1084.2
30°	1098.2	1099.1	1069.5	1048.7	1043.9
32.5°	1061.9	1059.0	1030.9	1006.1	1002.9
35°	1011.3	1001.7	973.8	945.1	939.3
37.5°	950.4	944.6	911.7	882.9	874.2
40°	911.7	902.0	868.3	839.5	830.8
42.5°	873.0	861.8	827.2	795.2	785.8
45°	813.0	800.5	766.6	729.9	719.3
47.5°	752.6	738.9	701.7	666.1	654.4
50°	712.4	697.9	659.1	624.3	611.7
52.5°	671.3	656.1	617.3	581.7	571.5
55°	609.8	593.4	555.5	519.8	510.1
57.5°	548.2	532.0	494.3	460.5	448.9
60°	507.1	491.7	454.9	421.0	409.5
62.5°	465.3	450.6	414.6	381.6	370.8
65°	404.5	390.1	356.2	324.4	314.7
67.5°	344.3	332.0	298.6	269.4	261.7
70°	304.9	293.3	261.5	234.7	226.9
72.5°	267.0	254.6	224.4	201.6	196.1
75°	209.2	197.6	173.7	155.8	152.9
77.5°	156.3	146.8	126.1	116.0	114.5
80°	122.3	113.7	97.7	90.8	90.8
82.5°	90.8	83.6	73.2	70.3	70.3
85°	47.4	43.5	41.4	41.4	41.4
87.5°	14.2	14.2	13.4	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	4.3	2.7	2.2	2.2
95°	18.0	16.3	14.6	13.6	13.9
97.5°	33.1	31.5	29.4	28.4	28.7
100°	43.7	42.4	40.0	39.0	39.0
102.5°	54.0	53.2	50.8	49.8	50.1
105°	70.8	70.5	68.1	67.0	66.4
107.5°	89.4	88.8	86.1	86.0	85.4
110°	101.3	100.9	98.6	98.2	97.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	113.5	113.9	111.3	111.0	110.6
115°	132.8	133.4	130.4	130.1	129.7
117.5°	152.6	153.5	150.3	149.9	149.3
120°	165.3	167.3	163.3	162.9	162.6
122.5°	178.3	180.0	176.3	175.7	175.6
125°	197.8	200.1	196.1	195.4	195.8
127.5°	217.3	219.7	216.0	214.6	215.4
130°	230.3	233.0	229.0	227.6	228.6
132.5°	243.6	246.2	242.2	240.9	242.4
135°	263.5	266.2	261.8	259.9	262.5
137.5°	283.0	285.3	280.5	279.2	281.9
140°	295.7	298.0	293.0	291.4	294.7
142.5°	308.2	310.7	305.2	303.6	307.1
145°	326.5	329.2	323.8	322.2	325.2
147.5°	344.1	346.8	341.4	339.5	342.6
150°	355.0	357.9	352.3	350.6	354.0
152.5°	365.5	368.8	362.8	361.0	365.1
155°	381.0	384.4	378.0	376.4	380.4
157.5°	395.0	398.1	392.3	390.7	394.1
160°	403.4	406.7	400.7	399.1	403.1
162.5°	410.7	414.0	408.6	406.4	410.4
165°	420.7	424.3	418.6	416.4	420.7
167.5°	429.0	432.9	426.9	424.8	429.1
170°	433.9	437.5	431.5	428.9	433.2
172.5°	437.1	440.8	434.8	432.1	435.1
175°	440.7	444.6	438.6	436.0	437.6
177.5°	442.2	445.4	440.6	438.2	441.9
180°	441.7	441.7	441.7	441.7	441.7



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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	18.74	19.85	19.45	20.59	21.46	17.66	18.78	18.38	19.51	20.38
	3H	20.42	21.42	21.15	22.17	23.07	19.09	20.09	19.82	20.84	21.74
	4H	21.06	22.01	21.81	22.76	23.68	19.62	20.56	20.37	21.32	22.24
	6H	21.46	22.33	22.22	23.10	24.03	19.95	20.82	20.71	21.59	22.52
	8H	21.61	22.44	22.38	23.22	24.15	20.08	20.91	20.85	21.69	22.63
	12H	21.68	22.47	22.46	23.25	24.21	20.17	20.96	20.94	21.73	22.69
4H	2H	19.18	20.12	19.93	20.88	21.79	18.32	19.26	19.07	20.02	20.93
	3H	21.09	21.88	21.85	22.67	23.60	19.96	20.75	20.72	21.54	22.47
	4H	21.85	22.56	22.63	23.35	24.32	20.58	21.29	21.36	22.08	23.04
	6H	22.36	22.98	23.16	23.80	24.77	21.00	21.62	21.80	22.44	23.41
	8H	22.56	23.14	23.36	23.95	24.93	21.18	21.76	21.98	22.57	23.55
	12H	22.67	23.19	23.49	24.02	25.01	21.30	21.82	22.12	22.65	23.64
8H	4H	22.00	22.57	22.80	23.39	24.37	20.86	21.44	21.66	22.25	23.23
	6H	22.63	23.10	23.46	23.96	24.94	21.40	21.87	22.23	22.73	23.71
	8H	22.90	23.33	23.74	24.18	25.18	21.65	22.08	22.49	22.93	23.93
	12H	23.08	23.45	23.92	24.29	25.35	21.84	22.21	22.68	23.05	24.11
12H	4H	21.98	22.50	22.80	23.33	24.32	20.87	21.39	21.69	22.22	23.21
	6H	22.64	23.07	23.49	23.92	24.92	21.45	21.88	22.30	22.73	23.73
	8H	22.96	23.33	23.80	24.17	25.23	21.75	22.12	22.59	22.96	24.02