

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: P824294

Luminaire Tested: CB3-D-055U-085D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824294
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-055U-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 550 LUMENS PER FOOT
Light Source: 80 CRI, 4000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5524.2 lumens
Efficiency: N/A
Efficacy: 132.8 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

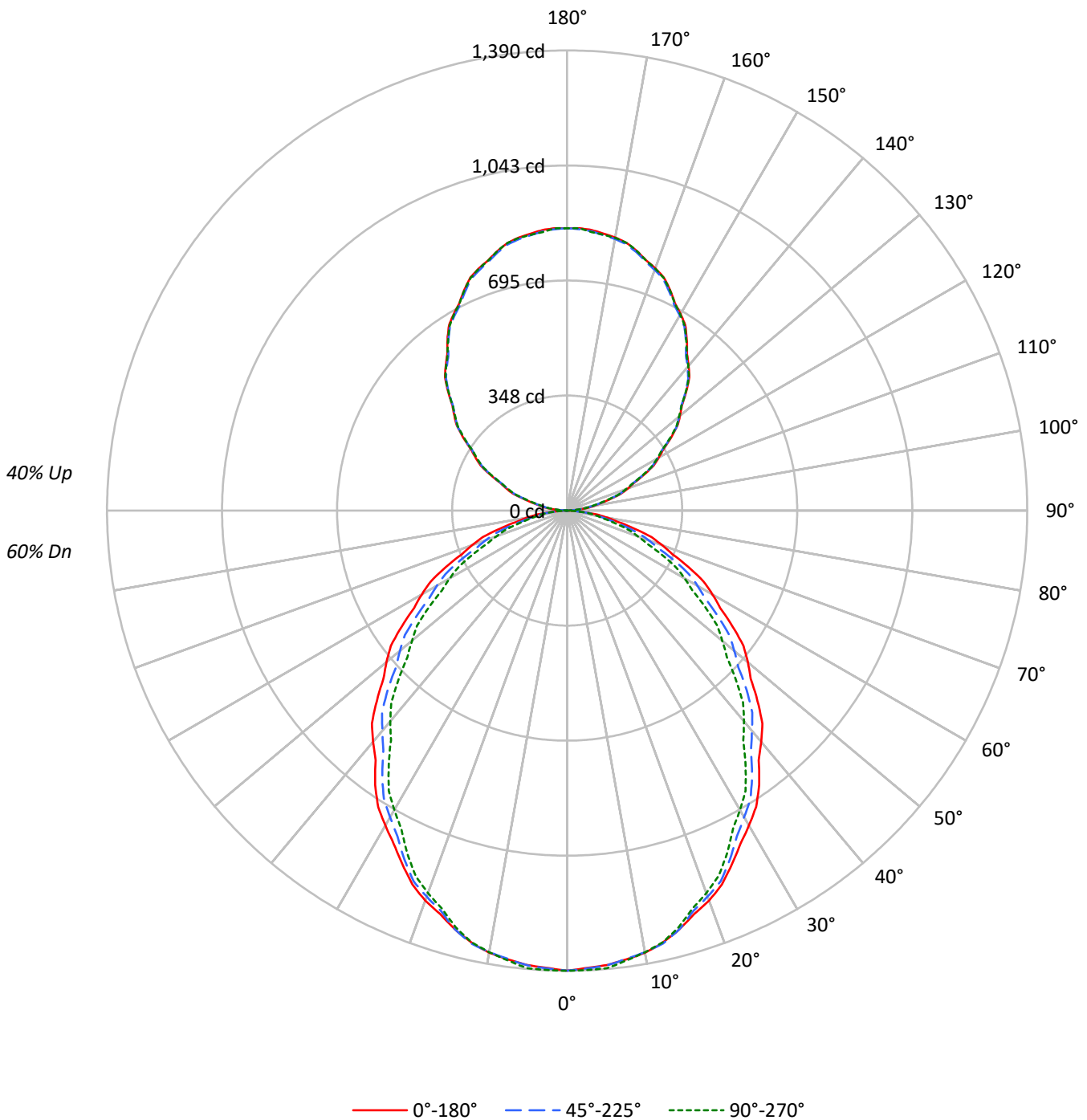
Input Watts (W): 41.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P824294

CATALOG NUMBER: CB3-D-055U-085D-840-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P824294

CATALOG NUMBER: CB3-D-055U-085D-840-1D-UNV-STD-W-4

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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	60
1	100	96	92	89	94	90	87	83	78	76	74	68	66	64	58	57	56	51
2	92	84	78	73	85	79	73	69	69	65	61	60	57	54	52	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	41	37
4	77	66	58	52	71	62	55	49	54	49	44	48	43	40	41	38	35	32
5	70	59	51	45	66	55	48	43	49	43	38	43	38	35	37	34	31	28
6	65	53	45	39	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	22
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	23	20	18
10	49	37	29	25	46	35	28	24	31	26	22	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15726	15726	15726
5°	15651	15662	15760
10°	15583	15561	15561
15°	15345	15345	15252
20°	15095	14941	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



TEST NUMBER: P824294

CATALOG NUMBER: CB3-D-055U-085D-840-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	2.4
10°-20°	368.4	6.7
20°-30°	535.1	9.7
30°-40°	608.3	11.0
40°-50°	590.5	10.7
50°-60°	498.6	9.0
60°-70°	354.7	6.4
70°-80°	189.5	3.4
80°-90°	50.1	0.9
90°-100°	36.0	0.7
100°-110°	141.0	2.6
110°-120°	251.3	4.5
120°-130°	340.0	6.2
130°-140°	390.9	7.1
140°-150°	392.3	7.1
150°-160°	337.4	6.1
160°-170°	228.4	4.1
170°-180°	80.5	1.5
0°-30°	1034.7	18.7
0°-40°	1643.0	29.7
0°-60°	2732.0	49.5
0°-90°	3326.3	60.2
90°-120°	428.3	7.8
90°-150°	1551.6	28.1
90°-180°	2198.0	39.8
0°-180°	5524.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1378	1395	1379	1377	1388	131
15°	1310	1322	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°	35	32	28	26	27	40
105°	137	136	131	129	128	146
115°	256	258	252	251	250	254
125°	382	386	379	377	378	341
135°	509	514	506	502	507	392
145°	630	636	625	622	628	394
155°	736	742	730	727	734	338
165°	812	819	808	804	812	229
175°	851	858	847	842	845	81
180°	853	853	853	853	853	

TEST NUMBER: P824294

CATALOG NUMBER: CB3-D-055U-085D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.9	1389.9	1389.9	1389.9	1389.9
2.5°	1382.8	1396.7	1384.4	1386.0	1389.1
5°	1378.0	1395.4	1379.0	1377.3	1387.6
7.5°	1367.4	1383.2	1366.2	1362.3	1370.9
10°	1356.3	1373.7	1354.4	1349.5	1354.4
12.5°	1336.6	1354.7	1339.4	1331.4	1335.4
15°	1310.0	1321.5	1310.0	1302.1	1302.1
17.5°	1277.4	1289.6	1267.7	1262.2	1259.9
20°	1253.7	1264.3	1240.9	1232.9	1229.4
22.5°	1222.1	1232.0	1212.5	1198.5	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°	9.4	8.4	5.2	4.2	4.2
95°	34.7	31.5	28.1	26.2	26.8
97.5°	63.9	60.9	56.8	54.8	55.3
100°	84.4	81.8	77.2	75.2	75.2
102.5°	104.2	102.7	98.1	96.1	96.6
105°	136.7	136.0	131.4	129.4	128.2
107.5°	172.5	171.3	166.2	166.1	164.9
110°	195.5	194.9	190.3	189.6	189.0

TEST NUMBER: P824294

CATALOG NUMBER: CB3-D-055U-085D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.1	219.9	214.9	214.2	213.6
115°	256.3	257.6	251.7	251.1	250.4
117.5°	294.5	296.3	290.1	289.4	288.2
120°	319.1	322.9	315.2	314.5	313.9
122.5°	344.2	347.5	340.3	339.1	339.0
125°	381.9	386.3	378.6	377.3	377.9
127.5°	419.5	424.1	416.9	414.3	415.7
130°	444.6	449.8	442.0	439.5	441.4
132.5°	470.3	475.4	467.7	465.1	468.1
135°	508.7	513.8	505.5	501.6	506.8
137.5°	546.3	550.7	541.5	538.9	544.3
140°	570.8	575.3	565.6	562.5	568.9
142.5°	594.9	599.9	589.2	586.0	592.9
145°	630.3	635.5	625.1	622.0	627.7
147.5°	664.3	669.6	659.1	655.5	661.3
150°	685.3	691.0	680.0	676.9	683.3
152.5°	705.7	711.9	700.4	696.8	704.8
155°	735.6	742.0	729.7	726.6	734.3
157.5°	762.6	768.4	757.3	754.2	760.9
160°	778.8	785.2	773.5	770.5	778.1
162.5°	792.9	799.3	788.7	784.6	792.2
165°	812.1	819.2	808.2	803.8	812.1
167.5°	828.2	835.8	824.2	820.2	828.5
170°	837.6	844.7	833.0	828.0	836.3
172.5°	843.9	850.9	839.3	834.2	840.0
175°	850.7	858.4	846.8	841.6	844.8
177.5°	853.7	859.8	850.6	846.0	853.2
180°	852.7	852.7	852.7	852.7	852.7



TEST NUMBER: P824294
 CATALOG NUMBER: CB3-D-055U-085D-840-1D-UNV-STD-W-4

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	17.62	18.56	18.48	19.45	20.57	16.54	17.48	17.40	18.37	19.49
	3H	19.29	20.14	20.17	21.03	22.18	17.96	18.81	18.84	19.70	20.85
	4H	19.92	20.73	20.82	21.63	22.78	18.48	19.28	19.37	20.18	21.34
	6H	20.31	21.05	21.22	21.96	23.13	18.80	19.54	19.71	20.45	21.62
	8H	20.45	21.16	21.37	22.08	23.25	18.93	19.63	19.84	20.56	21.72
	12H	20.52	21.19	21.44	22.11	23.30	19.00	19.67	19.92	20.59	21.79
4H	2H	18.03	18.84	18.93	19.74	20.89	17.17	17.98	18.07	18.88	20.03
	3H	19.93	20.60	20.84	21.53	22.70	18.80	19.47	19.71	20.40	21.57
	4H	20.68	21.29	21.61	22.22	23.42	19.41	20.02	20.33	20.95	22.15
	6H	21.19	21.72	22.13	22.67	23.86	19.83	20.35	20.77	21.31	22.50
	8H	21.38	21.87	22.32	22.82	24.03	20.00	20.49	20.94	21.44	22.65
	12H	21.49	21.93	22.44	22.89	24.11	20.11	20.55	21.07	21.52	22.73
8H	4H	20.82	21.31	21.76	22.26	23.47	19.68	20.17	20.62	21.12	22.33
	6H	21.44	21.85	22.41	22.84	24.04	20.21	20.62	21.18	21.61	22.82
	8H	21.72	22.08	22.69	23.06	24.28	20.47	20.82	21.44	21.80	23.03
	12H	21.89	22.20	22.86	23.17	24.45	20.65	20.96	21.62	21.93	23.21
12H	4H	20.80	21.24	21.75	22.20	23.42	19.69	20.13	20.64	21.09	22.31
	6H	21.46	21.82	22.43	22.80	24.02	20.27	20.63	21.24	21.61	22.83
	8H	21.76	22.08	22.74	23.05	24.32	20.56	20.87	21.53	21.84	23.12