

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: P824276

Luminaire Tested: CB3-D-030U-055D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824276
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-055D-840-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
3-INCH APERTURE
DOWNLIGHT 550 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: 3317.7 lumens
Efficiency: N/A
Efficacy: 134.3 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

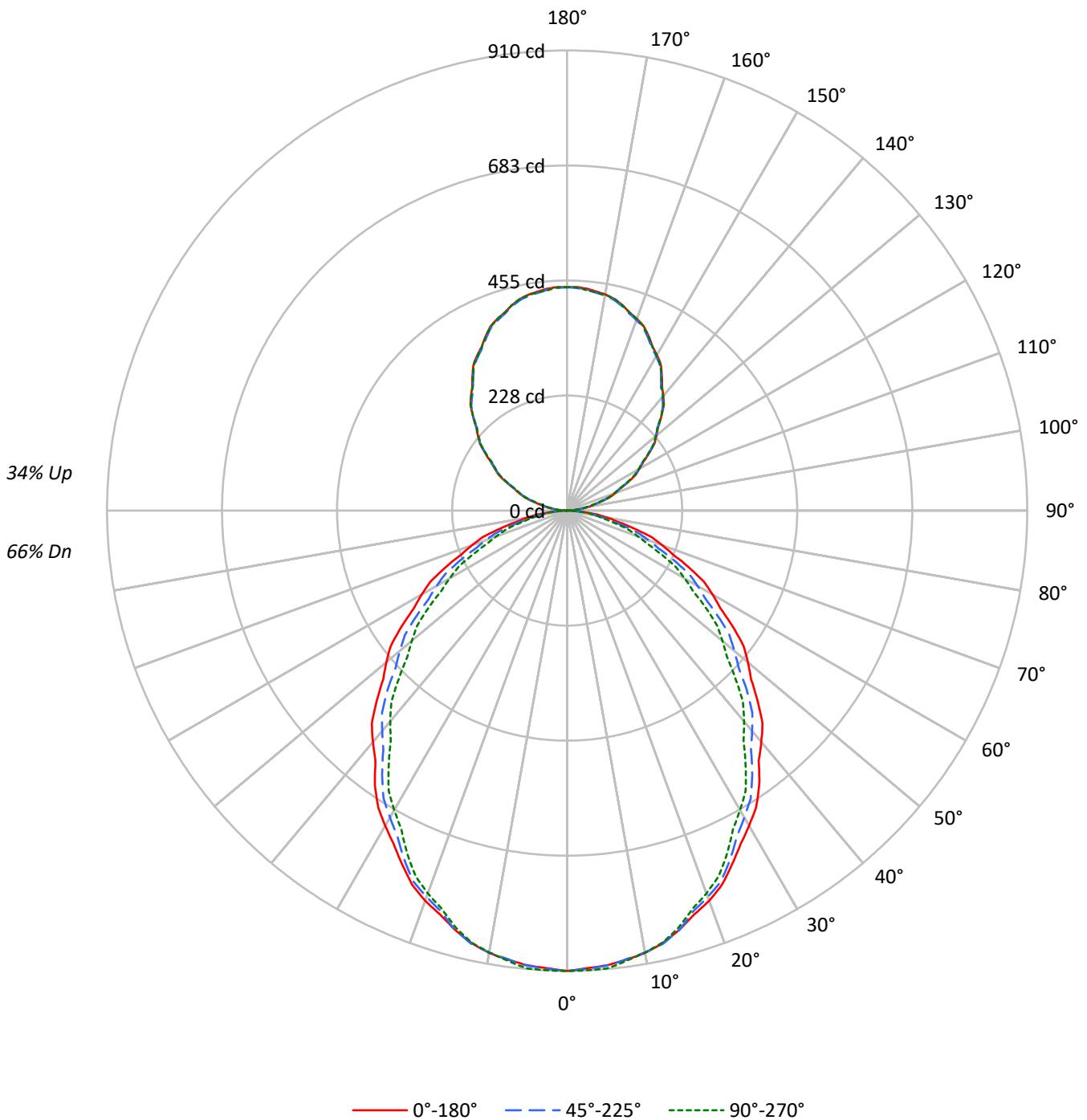
Input Watts (W): 24.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P824276

CATALOG NUMBER: CB3-D-030U-055D-840-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P824276

CATALOG NUMBER: CB3-D-030U-055D-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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	71	67	64	63	60	57	56	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	53	73	63	56	50	56	51	46	50	46	42	44	41	38	35
5	71	60	51	45	67	57	49	44	51	45	40	45	40	36	40	36	33	30
6	66	54	45	40	62	51	43	38	46	40	35	41	36	32	36	32	29	27
7	61	49	41	35	57	46	39	34	42	36	31	37	32	29	33	29	26	24
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	31	27	24	21
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	28	24	21	19
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10302	10302	10302
5°	10253	10261	10323
10°	10208	10193	10193
15°	10052	10052	9992
20°	9889	9788	9698
25°	9635	9514	9344
30°	9400	9155	8935
35°	9152	8812	8500
40°	8822	8401	8039
45°	8522	8037	7540
50°	8215	7601	7055
55°	7881	7178	6593
60°	7520	6743	6071
65°	7095	6249	5521
70°	6606	5667	4919
75°	5989	4975	4380
80°	5226	4170	3877
85°	4024	3518	3518

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8522 cd/sqm



TEST NUMBER: P824276

CATALOG NUMBER: CB3-D-030U-055D-840-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	2.6
10°-20°	241.4	7.3
20°-30°	350.6	10.6
30°-40°	398.5	12.0
40°-50°	386.9	11.7
50°-60°	326.6	9.8
60°-70°	232.4	7.0
70°-80°	124.2	3.7
80°-90°	32.8	1.0
90°-100°	18.7	0.6
100°-110°	73.0	2.2
110°-120°	130.2	3.9
120°-130°	176.1	5.3
130°-140°	202.5	6.1
140°-150°	203.2	6.1
150°-160°	174.8	5.3
160°-170°	118.3	3.6
170°-180°	41.7	1.3
0°-30°	677.8	20.4
0°-40°	1076.3	32.4
0°-60°	1789.8	53.9
0°-90°	2179.2	65.7
90°-120°	221.9	6.7
90°-150°	803.7	24.2
90°-180°	1139.0	34.3
0°-180°	3317.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	903	914	903	902	909	86
15°	858	866	858	853	853	242
25°	772	774	762	752	748	356
35°	663	656	638	619	615	413
45°	533	524	502	478	471	411
55°	400	389	364	340	334	357
65°	265	256	233	212	206	262
75°	137	130	114	102	100	146
85°	31	28	27	27	27	37
90°	0	0	0	0	0	2
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	



TEST NUMBER: P824276

CATALOG NUMBER: CB3-D-030U-055D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.5	910.5	910.5	910.5	910.5
2.5°	905.8	914.9	906.9	907.9	910.0
5°	902.7	914.1	903.4	902.2	908.9
7.5°	895.7	906.1	895.0	892.4	898.1
10°	888.5	899.9	887.2	884.1	887.2
12.5°	875.6	887.5	877.4	872.2	874.8
15°	858.1	865.7	858.1	853.0	853.0
17.5°	836.8	844.8	830.5	826.8	825.4
20°	821.3	828.2	812.9	807.7	805.4
22.5°	800.6	807.0	794.3	785.1	782.7
25°	771.8	774.3	762.1	751.7	748.5
27.5°	743.2	743.9	727.1	714.4	710.3
30°	719.5	720.1	700.7	687.1	683.9
32.5°	695.7	693.8	675.4	659.2	657.0
35°	662.6	656.3	638.0	619.2	615.4
37.5°	622.6	618.8	597.3	578.4	572.7
40°	597.3	591.0	568.8	550.0	544.3
42.5°	571.9	564.6	542.0	521.0	514.8
45°	532.6	524.4	502.3	478.2	471.2
47.5°	493.1	484.1	459.7	436.4	428.7
50°	466.7	457.2	431.8	409.0	400.8
52.5°	439.8	429.8	404.4	381.1	374.4
55°	399.5	388.7	363.9	340.5	334.2
57.5°	359.1	348.5	323.9	301.7	294.1
60°	332.3	322.1	298.0	275.8	268.3
62.5°	304.8	295.2	271.6	250.0	242.9
65°	265.0	255.5	233.4	212.5	206.2
67.5°	225.6	217.5	195.6	176.5	171.4
70°	199.7	192.2	171.3	153.7	148.7
72.5°	174.9	166.8	147.0	132.0	128.5
75°	137.0	129.5	113.8	102.1	100.2
77.5°	102.4	96.2	82.6	76.0	75.0
80°	80.2	74.5	64.0	59.5	59.5
82.5°	59.5	54.8	48.0	46.0	46.0
85°	31.0	28.5	27.1	27.1	27.1
87.5°	9.3	9.3	8.8	8.3	8.3
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



TEST NUMBER: P824276

CATALOG NUMBER: CB3-D-030U-055D-840-1D-UNV-STD-W-4

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



TEST NUMBER: P824276
 CATALOG NUMBER: CB3-D-030U-055D-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	16.59	17.60	17.40	18.43	19.46	15.51	16.52	16.32	17.35	18.38
	3H	18.27	19.17	19.09	20.01	21.07	16.94	17.84	17.76	18.68	19.74
	4H	18.90	19.76	19.75	20.61	21.67	17.46	18.31	18.30	19.16	20.23
	6H	19.30	20.08	20.15	20.94	22.02	17.79	18.57	18.64	19.43	20.51
	8H	19.44	20.19	20.30	21.06	22.14	17.91	18.66	18.78	19.54	20.62
	12H	19.51	20.22	20.38	21.09	22.20	17.99	18.71	18.86	19.57	20.68
4H	2H	17.01	17.87	17.86	18.72	19.79	16.16	17.01	17.00	17.86	18.93
	3H	18.92	19.63	19.78	20.51	21.59	17.79	18.50	18.65	19.38	20.47
	4H	19.67	20.32	20.54	21.20	22.31	18.40	19.05	19.27	19.93	21.04
	6H	20.18	20.74	21.07	21.65	22.76	18.82	19.38	19.71	20.28	21.40
	8H	20.38	20.90	21.27	21.80	22.93	19.00	19.52	19.88	20.42	21.54
	12H	20.48	20.95	21.39	21.87	23.00	19.11	19.58	20.02	20.49	21.63
8H	4H	19.81	20.33	20.70	21.23	22.36	18.67	19.20	19.56	20.09	21.22
	6H	20.44	20.87	21.35	21.81	22.94	19.21	19.64	20.13	20.58	21.71
	8H	20.72	21.10	21.64	22.03	23.17	19.46	19.84	20.39	20.78	21.92
	12H	20.89	21.22	21.82	22.15	23.34	19.64	19.98	20.57	20.91	22.10
12H	4H	19.79	20.26	20.70	21.18	22.31	18.68	19.15	19.59	20.07	21.20
	6H	20.46	20.84	21.38	21.77	22.92	19.27	19.65	20.19	20.58	21.73
	8H	20.76	21.10	21.69	22.02	23.22	19.56	19.89	20.48	20.82	22.01