

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: P824291

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

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824291
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-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 550 LUMENS PER FOOT
Light Source: 80 CRI, 4000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4377.2 lumens
Efficiency: N/A
Efficacy: 134.7 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: General Diffuse

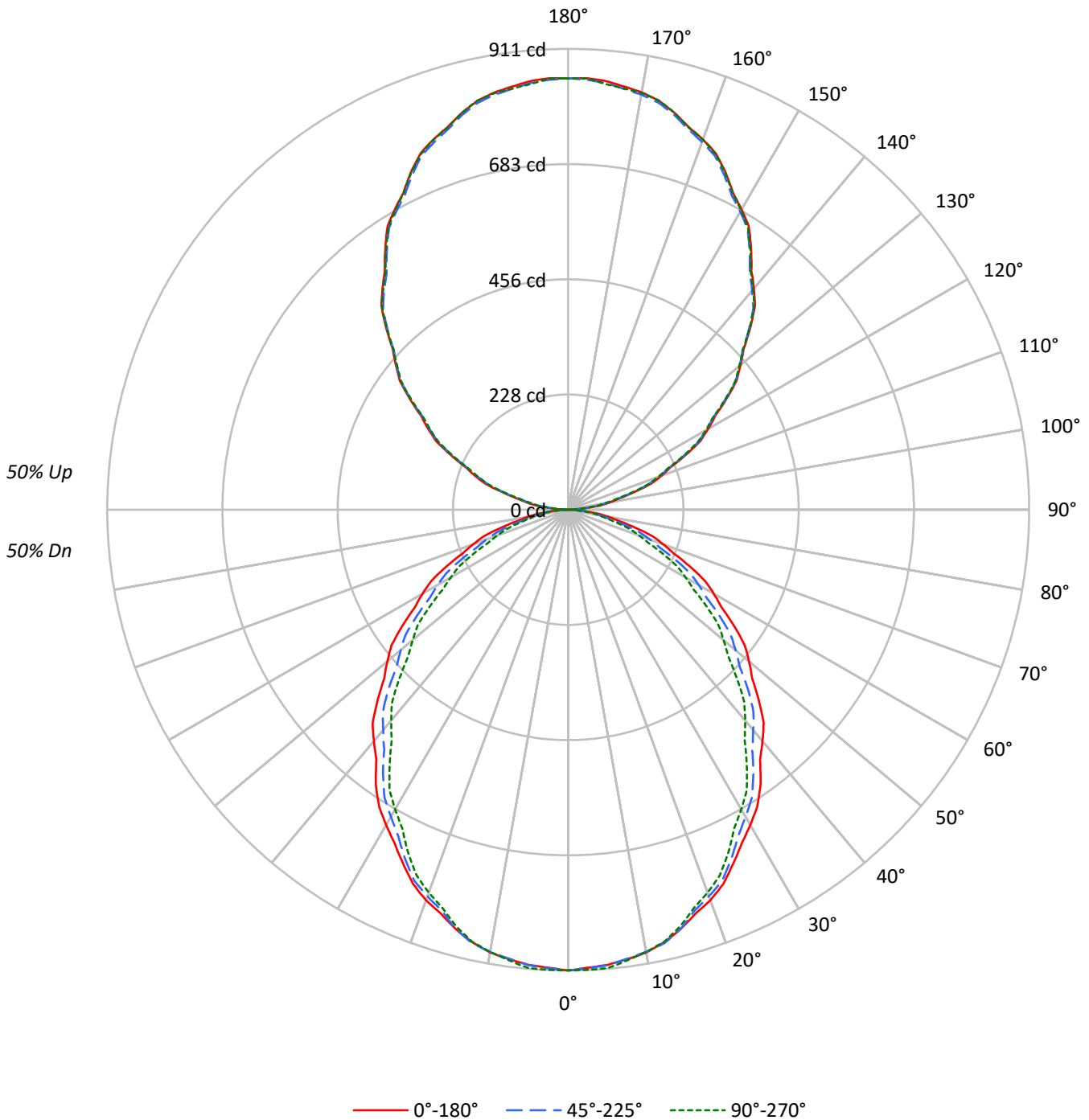
Input Watts (W): 32.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	90	86	90	87	83	80	73	71	69	61	59	58	50	49	48	42
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	30
4	75	64	56	50	69	59	53	47	51	45	41	43	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	32	29	26	23
6	63	51	43	37	58	48	41	35	41	35	31	35	30	27	29	26	23	20
7	59	46	38	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18
8	54	42	34	29	50	39	32	28	34	28	25	29	25	21	24	21	19	16
9	51	38	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15
10	47	35	28	23	44	33	27	22	29	23	20	25	20	18	21	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10305	10305	10305
5°	10256	10264	10330
10°	10212	10197	10197
15°	10055	10055	9995
20°	9893	9792	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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	2.0
10°-20°	241.4	5.5
20°-30°	350.6	8.0
30°-40°	398.5	9.1
40°-50°	386.9	8.8
50°-60°	326.6	7.5
60°-70°	232.4	5.3
70°-80°	124.2	2.8
80°-90°	32.8	0.7
90°-100°	36.0	0.8
100°-110°	141.0	3.2
110°-120°	251.3	5.7
120°-130°	340.0	7.8
130°-140°	390.9	8.9
140°-150°	392.3	9.0
150°-160°	337.4	7.7
160°-170°	228.4	5.2
170°-180°	80.5	1.8
0°-30°	678.0	15.5
0°-40°	1076.5	24.6
0°-60°	1790.0	40.9
0°-90°	2179.3	49.8
90°-120°	428.3	9.8
90°-150°	1551.6	35.4
90°-180°	2198.0	50.2
0°-180°	4377.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	911	911	911	911	911	
5°	903	914	904	903	910	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	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.8	910.8	910.8	910.8	910.8
2.5°	906.1	915.2	907.2	908.3	910.3
5°	903.0	914.4	903.7	902.6	909.5
7.5°	896.1	906.4	895.3	892.7	898.4
10°	888.8	900.2	887.5	884.4	887.5
12.5°	875.9	887.8	877.7	872.5	875.1
15°	858.4	866.0	858.4	853.3	853.3
17.5°	837.1	845.1	830.8	827.1	825.6
20°	821.6	828.6	813.2	808.0	805.4
22.5°	800.9	807.4	794.6	785.2	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°	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

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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



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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	15.23	16.08	16.19	17.05	18.33	14.15	15.00	15.11	15.98	17.25
	3H	16.90	17.66	17.87	18.64	19.94	15.57	16.33	16.54	17.31	18.61
	4H	17.53	18.25	18.51	19.23	20.54	16.08	16.80	17.07	17.79	19.09
	6H	17.91	18.57	18.91	19.57	20.88	16.40	17.06	17.40	18.05	19.37
	8H	18.05	18.68	19.05	19.69	21.00	16.52	17.15	17.52	18.16	19.48
	12H	18.11	18.71	19.12	19.72	21.06	16.60	17.20	17.60	18.20	19.54
4H	2H	15.64	16.36	16.63	17.34	18.65	14.78	15.50	15.77	16.49	17.79
	3H	17.53	18.13	18.53	19.14	20.46	16.40	17.00	17.40	18.01	19.33
	4H	18.27	18.82	19.28	19.83	21.17	17.00	17.55	18.01	18.56	19.90
	6H	18.78	19.25	19.80	20.28	21.62	17.41	17.89	18.44	18.92	20.26
	8H	18.97	19.41	19.99	20.43	21.79	17.58	18.02	18.61	19.05	20.41
	12H	19.06	19.46	20.10	20.50	21.86	17.69	18.09	18.73	19.13	20.49
8H	4H	18.40	18.84	19.42	19.87	21.22	17.26	17.70	18.29	18.73	20.08
	6H	19.02	19.38	20.07	20.45	21.81	17.79	18.16	18.84	19.22	20.58
	8H	19.30	19.62	20.35	20.67	22.04	18.04	18.36	19.10	19.42	20.79
	12H	19.46	19.74	20.52	20.79	22.20	18.22	18.50	19.28	19.55	20.96
12H	4H	18.37	18.77	19.41	19.81	21.17	17.26	17.66	18.30	18.70	20.06
	6H	19.04	19.36	20.09	20.41	21.78	17.85	18.17	18.90	19.22	20.59
	8H	19.34	19.62	20.39	20.67	22.08	18.13	18.41	19.19	19.46	20.87