

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: P824309

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

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824309
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-085U-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 850 LUMENS PER FOOT
Light Source: 80 CRI, 4000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6642.9 lumens
Efficiency: N/A
Efficacy: 134.2 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

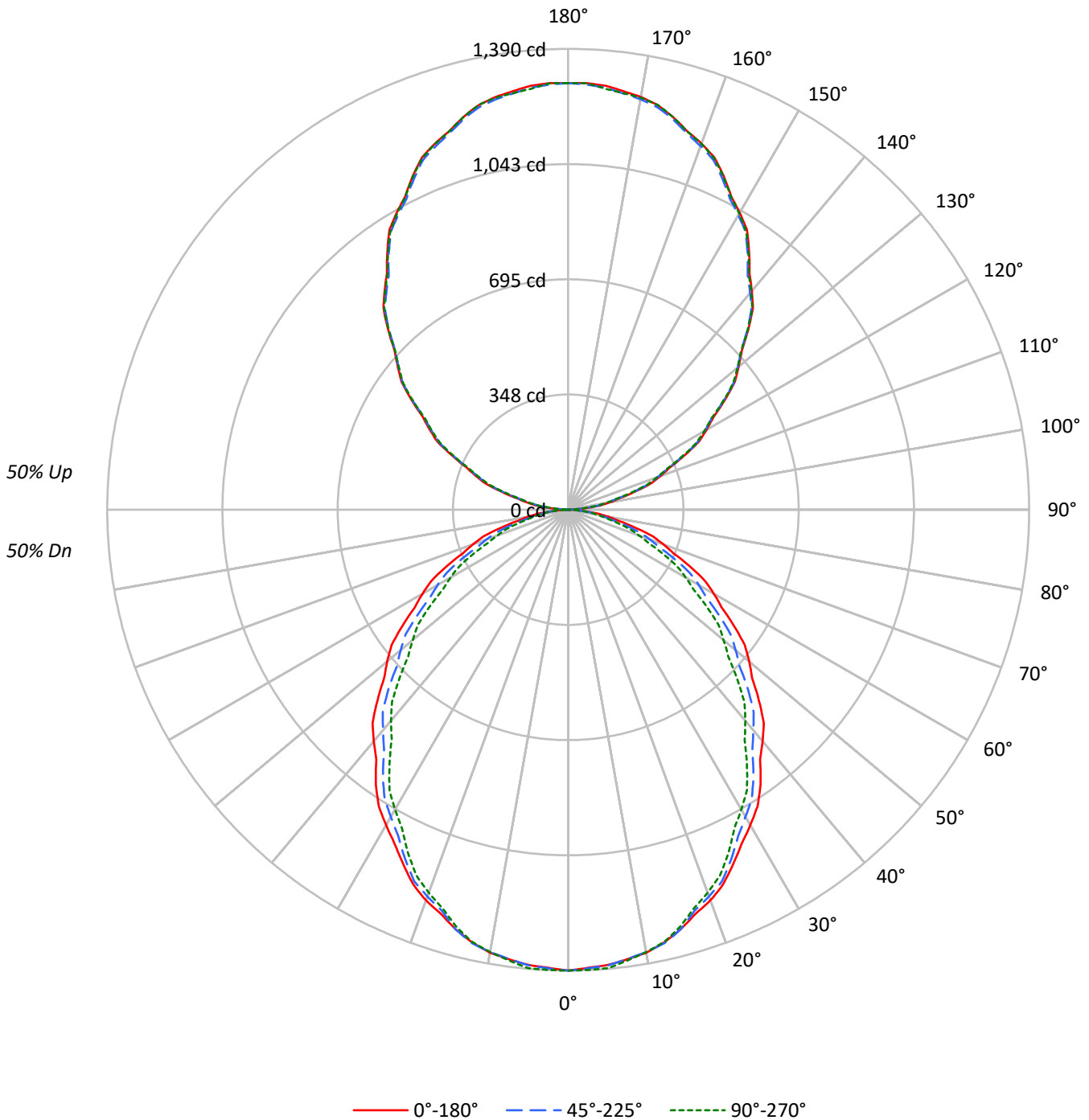
Input Watts (W): 49.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	60	58	50	49	48	43
2	89	82	76	71	82	76	71	66	65	61	57	54	51	49	44	42	41	36
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	31
4	75	64	56	50	69	59	53	47	51	46	41	43	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23
6	63	51	43	38	58	48	41	35	41	35	31	35	30	27	29	26	23	20
7	59	46	39	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	29	25	29	25	22	24	21	19	16
9	51	39	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	24	20	25	21	18	21	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15730	15730	15730
5°	15656	15667	15767
10°	15587	15564	15564
15°	15348	15348	15256
20°	15100	14945	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°	131.2	2.0
10°-20°	368.5	5.5
20°-30°	535.1	8.1
30°-40°	608.3	9.2
40°-50°	590.5	8.9
50°-60°	498.6	7.5
60°-70°	354.7	5.3
70°-80°	189.5	2.9
80°-90°	50.1	0.8
90°-100°	54.4	0.8
100°-110°	212.7	3.2
110°-120°	379.2	5.7
120°-130°	513.1	7.7
130°-140°	589.9	8.9
140°-150°	591.9	8.9
150°-160°	509.1	7.7
160°-170°	344.6	5.2
170°-180°	121.5	1.8
0°-30°	1034.8	15.6
0°-40°	1643.1	24.7
0°-60°	2732.2	41.1
0°-90°	3326.5	50.1
90°-120°	646.3	9.7
90°-150°	2341.3	35.2
90°-180°	3316.0	49.9
0°-180°	6642.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1378	1396	1379	1378	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	4
95°	52	48	42	40	40	60
105°	206	205	198	195	193	220
115°	387	389	380	379	378	383
125°	576	583	571	569	570	515
135°	768	775	763	757	765	592
145°	951	959	943	938	947	594
155°	1110	1120	1101	1096	1108	511
165°	1225	1236	1220	1213	1225	345
175°	1284	1295	1278	1270	1275	122
180°	1287	1287	1287	1287	1287	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1390.2	1390.2	1390.2	1390.2	1390.2
2.5°	1383.1	1397.0	1384.7	1386.3	1389.4
5°	1378.4	1395.7	1379.4	1377.6	1388.2
7.5°	1367.7	1383.5	1366.5	1362.6	1371.3
10°	1356.7	1374.0	1354.7	1349.9	1354.7
12.5°	1336.9	1355.1	1339.7	1331.7	1335.8
15°	1310.3	1321.9	1310.3	1302.4	1302.4
17.5°	1277.7	1289.9	1268.1	1262.5	1260.2
20°	1254.1	1264.7	1241.2	1233.2	1229.4
22.5°	1222.5	1232.3	1212.8	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°	14.2	12.7	7.9	6.3	6.3
95°	52.3	47.5	42.4	39.5	40.5
97.5°	96.5	91.9	85.6	82.7	83.5
100°	127.3	123.4	116.4	113.5	113.5
102.5°	157.3	155.0	148.0	145.1	145.8
105°	206.2	205.2	198.3	195.3	193.4
107.5°	260.3	258.5	250.8	250.6	248.8
110°	295.0	294.0	287.1	286.1	285.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	330.5	331.9	324.2	323.2	322.2
115°	386.8	388.7	379.9	378.9	377.9
117.5°	444.4	447.1	437.7	436.7	434.9
120°	481.5	487.3	475.6	474.6	473.6
122.5°	519.4	524.4	513.5	511.7	511.5
125°	576.2	583.0	571.3	569.3	570.3
127.5°	633.0	640.0	629.1	625.2	627.3
130°	670.9	678.7	667.0	663.1	666.0
132.5°	709.6	717.3	705.7	701.8	706.3
135°	767.6	775.3	762.7	757.0	764.7
137.5°	824.3	831.0	817.2	813.2	821.3
140°	861.4	868.1	853.5	848.8	858.4
142.5°	897.7	905.2	889.0	884.3	894.7
145°	951.1	958.9	943.3	938.5	947.2
147.5°	1002.5	1010.4	994.6	989.0	997.9
150°	1034.0	1042.7	1026.1	1021.4	1031.1
152.5°	1064.8	1074.3	1056.9	1051.5	1063.4
155°	1110.0	1119.6	1101.1	1096.5	1108.0
157.5°	1150.7	1159.5	1142.8	1138.1	1148.1
160°	1175.1	1184.8	1167.2	1162.6	1174.1
162.5°	1196.4	1206.1	1190.1	1183.9	1195.4
165°	1225.4	1236.1	1219.5	1212.9	1225.4
167.5°	1249.7	1261.1	1243.6	1237.6	1250.1
170°	1263.9	1274.5	1257.0	1249.4	1261.9
172.5°	1273.4	1284.0	1266.5	1258.8	1267.5
175°	1283.7	1295.2	1277.7	1270.0	1274.8
177.5°	1288.2	1297.5	1283.5	1276.6	1287.4
180°	1286.6	1286.6	1286.6	1286.6	1286.6



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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	16.73	17.58	17.69	18.55	19.82	15.65	16.50	16.61	17.47	18.74
	3H	18.39	19.16	19.36	20.14	21.43	17.06	17.82	18.03	18.81	20.10
	4H	19.02	19.74	20.01	20.73	22.03	17.58	18.30	18.56	19.28	20.59
	6H	19.41	20.07	20.40	21.06	22.38	17.90	18.56	18.89	19.55	20.87
	8H	19.54	20.18	20.55	21.18	22.50	18.02	18.65	19.02	19.66	20.97
	12H	19.61	20.21	20.62	21.21	22.55	18.09	18.69	19.10	19.70	21.03
4H	2H	17.13	17.86	18.12	18.84	20.14	16.27	17.00	17.26	17.98	19.28
	3H	19.02	19.62	20.02	20.64	21.95	17.89	18.49	18.89	19.51	20.82
	4H	19.77	20.32	20.78	21.33	22.67	18.50	19.05	19.51	20.06	21.40
	6H	20.27	20.75	21.29	21.78	23.11	18.91	19.38	19.93	20.41	21.75
	8H	20.46	20.90	21.48	21.93	23.28	19.08	19.52	20.10	20.55	21.90
	12H	20.56	20.96	21.60	22.00	23.35	19.19	19.58	20.22	20.62	21.98
8H	4H	19.90	20.34	20.92	21.36	22.72	18.76	19.20	19.78	20.23	21.58
	6H	20.52	20.88	21.56	21.95	23.30	19.29	19.65	20.33	20.72	22.07
	8H	20.79	21.11	21.85	22.17	23.53	19.54	19.86	20.59	20.91	22.28
	12H	20.96	21.24	22.01	22.29	23.70	19.72	20.00	20.77	21.04	22.46
12H	4H	19.87	20.27	20.91	21.31	22.67	18.76	19.16	19.80	20.20	21.56
	6H	20.53	20.86	21.59	21.91	23.27	19.35	19.67	20.40	20.72	22.09
	8H	20.83	21.12	21.89	22.16	23.57	19.63	19.91	20.68	20.96	22.37