

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: P824212

Luminaire Tested: CB2-D-085U-085D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824212
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-13, G2-2312-242-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB2-D-085U-085D-835-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
2-INCH APERTURE
DOWNLIGHT 850 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6732.9 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: General Diffuse

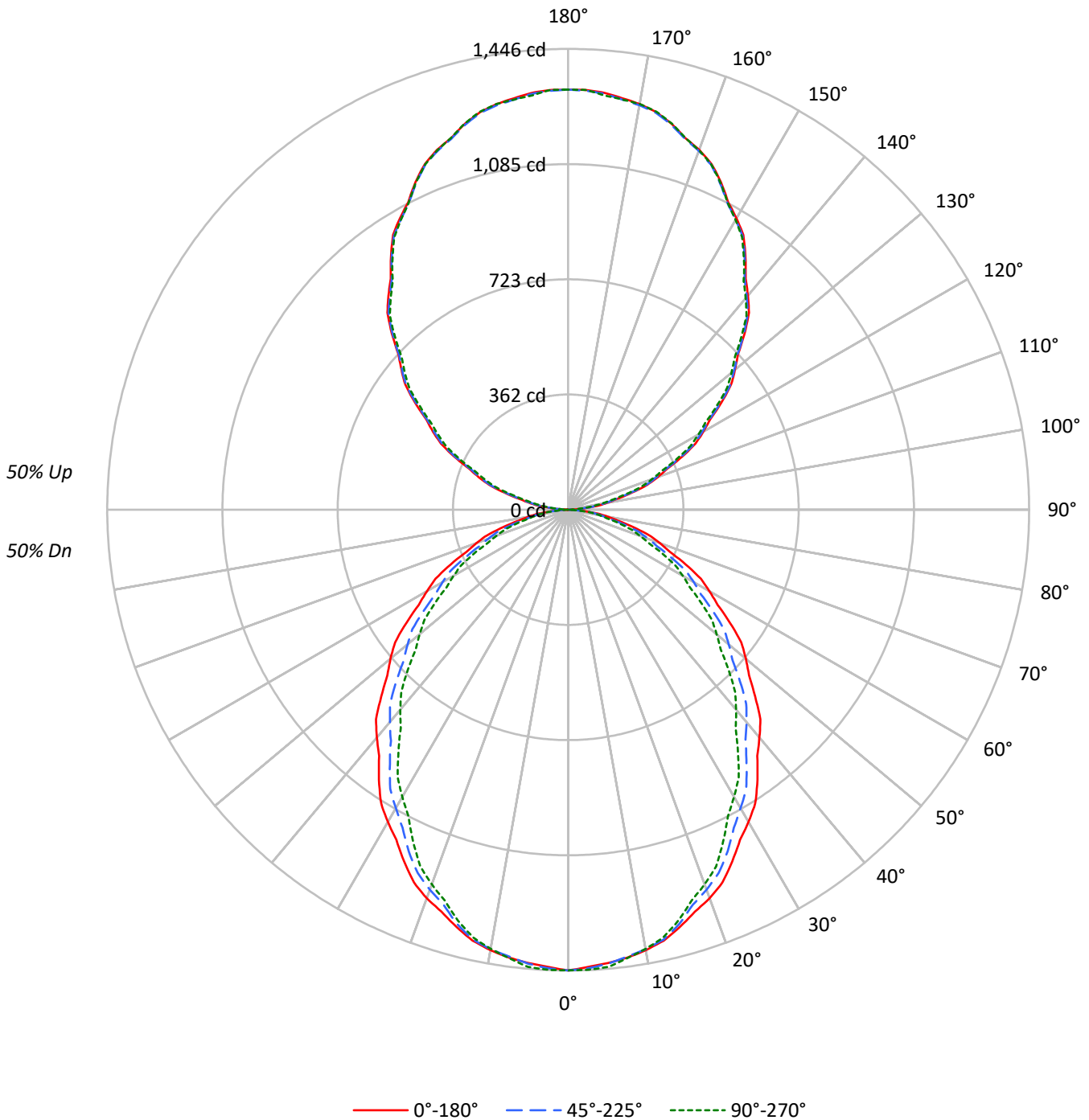
Input Watts (W): 53.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	64	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	36	31	35	31	27	29	26	23	20																				
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	27	23	21	18																				
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16																				
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	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°	25180	25180	25180
5°	24967	25005	25180
10°	24824	24766	24746
15°	24431	24273	24072
20°	24047	23514	23186
25°	23402	22741	22103
30°	22752	21751	20926
35°	22007	20735	19747
40°	21218	19783	18626
45°	20422	18787	17533
50°	19707	17816	16467
55°	18824	16808	15462
60°	17814	15850	14460
65°	16745	14783	13460
70°	15558	13587	12176
75°	14152	12288	11023
80°	12658	10772	9990
85°	9732	8853	7294

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20422 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	2.0
10°-20°	379.0	5.6
20°-30°	544.9	8.1
30°-40°	612.5	9.1
40°-50°	591.6	8.8
50°-60°	499.9	7.4
60°-70°	359.1	5.3
70°-80°	196.2	2.9
80°-90°	52.2	0.8
90°-100°	50.9	0.8
100°-110°	210.0	3.1
110°-120°	381.2	5.7
120°-130°	518.8	7.7
130°-140°	598.9	8.9
140°-150°	603.5	9.0
150°-160°	520.8	7.7
160°-170°	353.0	5.2
170°-180°	124.5	1.8
0°-30°	1059.8	15.7
0°-40°	1672.3	24.8
0°-60°	2763.8	41.0
0°-90°	3371.3	50.1
90°-120°	642.2	9.5
90°-150°	2363.3	35.1
90°-180°	3362.0	49.9
0°-180°	6732.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1428	1448	1430	1430	1440	136
15°	1355	1367	1346	1333	1335	382
25°	1218	1219	1183	1157	1150	561
35°	1035	1023	975	937	929	647
45°	829	812	763	723	712	641
55°	620	597	554	519	509	554
65°	406	391	359	333	327	403
75°	210	197	183	168	164	225
85°	49	46	44	39	36	58
90°	0	0	1	0	1	4
95°	49	43	41	32	32	57
105°	208	205	200	188	186	220
115°	395	394	387	375	374	390
125°	587	593	581	569	570	524
135°	782	792	778	764	769	603
145°	970	981	966	954	961	606
155°	1134	1145	1129	1122	1131	521
165°	1253	1266	1250	1243	1254	353
175°	1313	1327	1310	1302	1305	125
180°	1318	1318	1318	1318	1318	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1445.7	1445.7	1445.7	1445.7	1445.7
2.5°	1436.0	1453.3	1440.4	1442.2	1444.8
5°	1428.0	1447.5	1430.2	1430.4	1440.2
7.5°	1417.8	1436.2	1414.5	1410.5	1419.6
10°	1403.6	1422.0	1400.3	1392.7	1399.2
12.5°	1385.0	1402.6	1381.7	1369.7	1375.3
15°	1354.9	1366.8	1346.1	1332.8	1335.0
17.5°	1322.2	1329.5	1299.6	1288.5	1286.3
20°	1297.4	1303.9	1268.6	1253.0	1250.9
22.5°	1265.5	1271.1	1234.0	1214.9	1211.9
25°	1217.7	1218.7	1183.3	1156.6	1150.1
27.5°	1167.6	1164.2	1124.9	1093.3	1084.8
30°	1131.3	1127.0	1081.5	1048.1	1040.5
32.5°	1092.3	1084.6	1039.0	1003.0	995.4
35°	1035.0	1023.1	975.2	937.4	928.7
37.5°	973.9	960.5	913.5	872.3	862.5
40°	933.2	918.0	870.1	828.9	819.2
42.5°	892.4	875.5	826.7	785.5	774.9
45°	829.1	811.8	762.7	722.6	711.8
47.5°	768.9	746.8	699.2	659.3	648.5
50°	727.3	703.5	657.5	618.5	607.7
52.5°	684.8	660.1	615.9	578.7	567.9
55°	619.9	597.2	553.5	518.9	509.2
57.5°	555.7	533.8	493.9	460.9	451.4
60°	511.4	493.0	455.0	423.8	415.1
62.5°	468.9	452.2	416.0	387.5	378.8
65°	406.3	391.1	358.7	333.0	326.6
67.5°	345.4	330.2	304.0	281.0	273.6
70°	305.5	290.4	266.8	245.6	239.1
72.5°	267.4	251.4	232.2	212.9	208.1
75°	210.3	197.3	182.6	168.2	163.8
77.5°	159.8	147.3	136.6	126.4	125.3
80°	126.2	115.4	107.4	100.7	99.6
82.5°	94.3	86.1	80.8	75.9	75.7
85°	48.7	45.5	44.3	38.7	36.5
87.5°	14.2	14.2	12.6	10.6	10.8
90°	0.0	0.0	1.0	0.0	1.0
92.5°	12.3	10.7	10.1	6.6	7.6
95°	49.4	43.3	41.1	31.9	31.9
97.5°	93.2	87.1	83.9	74.4	72.4
100°	124.4	118.4	115.2	104.8	102.8
102.5°	156.5	153.7	148.1	136.9	134.9
105°	207.7	204.7	199.5	188.1	186.1
107.5°	260.3	260.9	253.1	243.8	241.0
110°	298.2	297.2	291.0	281.7	279.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	336.8	335.0	328.8	319.5	317.5
115°	394.8	393.8	386.6	375.3	374.3
117.5°	449.9	453.1	444.6	432.6	432.2
120°	489.4	493.4	483.2	472.9	470.9
122.5°	528.1	532.9	522.7	510.8	511.2
125°	587.1	593.1	580.9	568.6	569.6
127.5°	644.1	651.5	640.1	627.6	628.8
130°	682.7	691.8	679.6	666.3	668.3
132.5°	722.2	731.2	719.1	705.0	708.6
135°	782.4	791.5	778.3	764.1	769.1
137.5°	839.2	848.2	833.9	821.9	827.9
140°	877.0	886.1	870.9	859.7	865.7
142.5°	914.1	924.7	908.7	896.7	904.4
145°	969.6	980.6	965.5	954.3	961.3
147.5°	1022.2	1033.3	1017.9	1007.2	1014.4
150°	1055.9	1067.0	1050.8	1041.7	1049.8
152.5°	1087.2	1099.9	1082.9	1073.9	1084.3
155°	1134.1	1145.1	1128.9	1122.0	1131.0
157.5°	1174.8	1187.7	1171.5	1165.5	1172.7
160°	1201.9	1214.0	1197.8	1191.8	1199.9
162.5°	1222.5	1235.4	1220.0	1213.3	1222.9
165°	1253.4	1266.4	1250.3	1243.3	1254.4
167.5°	1277.6	1291.5	1275.2	1268.0	1279.3
170°	1292.4	1305.5	1288.3	1280.4	1292.4
172.5°	1302.3	1316.2	1298.2	1290.1	1298.2
175°	1313.0	1327.1	1309.9	1301.7	1304.8
177.5°	1318.1	1329.4	1315.7	1308.5	1318.1
180°	1318.1	1318.1	1318.1	1318.1	1318.1



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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	18.22	19.07	19.17	20.04	21.31	17.12	17.97	18.07	18.94	20.21
	3H	19.86	20.62	20.83	21.60	22.90	18.64	19.40	19.61	20.39	21.68
	4H	20.49	21.21	21.47	22.19	23.50	19.22	19.94	20.20	20.92	22.22
	6H	20.89	21.55	21.88	22.54	23.86	19.59	20.25	20.58	21.24	22.56
	8H	21.04	21.67	22.04	22.68	23.99	19.73	20.36	20.73	21.37	22.68
	12H	21.11	21.71	22.12	22.71	24.05	19.79	20.39	20.79	21.39	22.73
4H	2H	18.62	19.34	19.61	20.33	21.63	17.75	18.47	18.74	19.46	20.76
	3H	20.49	21.09	21.49	22.11	23.42	19.48	20.08	20.48	21.10	22.41
	4H	21.24	21.79	22.24	22.79	24.13	20.16	20.71	21.16	21.71	23.05
	6H	21.76	22.23	22.77	23.26	24.60	20.63	21.10	21.65	22.13	23.47
	8H	21.96	22.40	22.98	23.43	24.78	20.82	21.26	21.84	22.29	23.64
	12H	22.07	22.47	23.10	23.50	24.86	20.91	21.31	21.95	22.35	23.70
8H	4H	21.39	21.83	22.41	22.86	24.21	20.43	20.87	21.45	21.89	23.25
	6H	22.03	22.40	23.08	23.47	24.81	21.03	21.40	22.08	22.46	23.81
	8H	22.33	22.65	23.38	23.70	25.07	21.31	21.63	22.36	22.68	24.05
	12H	22.50	22.78	23.55	23.83	25.24	21.46	21.74	22.51	22.79	24.20
12H	4H	21.37	21.77	22.41	22.81	24.17	20.43	20.83	21.47	21.87	23.23
	6H	22.06	22.38	23.11	23.44	24.80	21.10	21.42	22.15	22.47	23.84
	8H	22.38	22.66	23.43	23.71	25.12	21.40	21.68	22.46	22.73	24.14