

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: P824248

Luminaire Tested: CB2-D-125U-085D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824248
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-125U-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 1250 LUMENS PER FOOT
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8418.7 lumens
Efficiency: N/A
Efficacy: 124.2 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

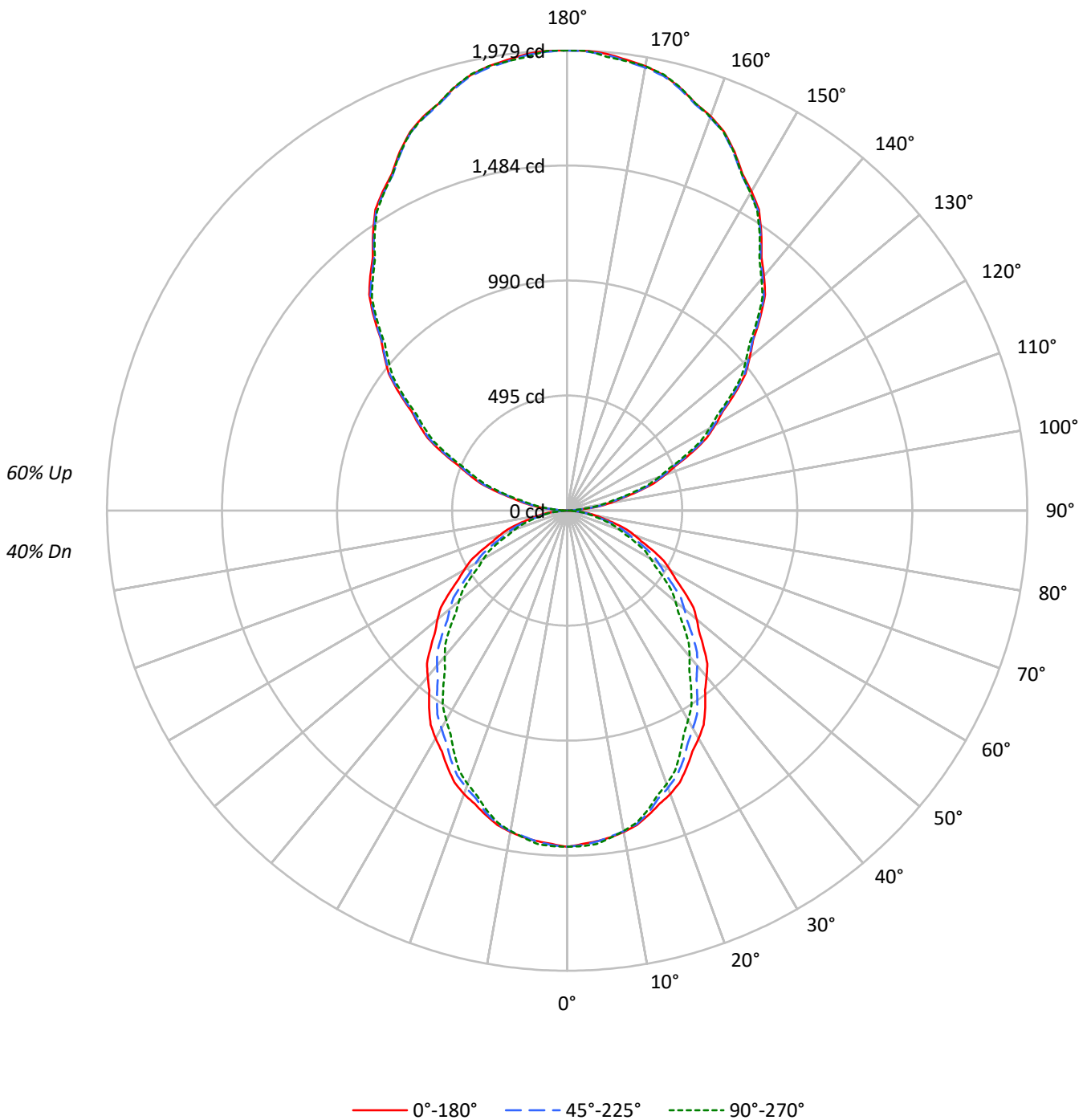
Input Watts (W): 67.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40																				
1	96	91	88	84	87	83	80	77	68	66	64	54	53	52	42	41	40	34																				
2	87	80	74	69	79	73	68	64	60	56	53	48	46	43	37	35	34	29																				
3	80	70	63	58	72	64	58	53	53	49	45	43	39	37	33	31	29	25																				
4	73	62	55	49	66	57	50	45	47	42	38	38	34	32	29	27	25	21																				
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	27	24	22	18																				
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16																				
7	57	45	37	32	52	41	35	30	35	29	25	28	24	21	22	19	17	15																				
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	18	16	13																				
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12																				
10	46	34	27	22	42	32	25	21	27	22	18	22	18	15	17	15	13	11																				

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	1.6
10°-20°	379.0	4.5
20°-30°	544.9	6.5
30°-40°	612.5	7.3
40°-50°	591.6	7.0
50°-60°	499.9	5.9
60°-70°	359.1	4.3
70°-80°	196.2	2.3
80°-90°	52.2	0.6
90°-100°	76.5	0.9
100°-110°	315.3	3.7
110°-120°	572.4	6.8
120°-130°	778.9	9.3
130°-140°	899.2	10.7
140°-150°	906.1	10.8
150°-160°	782.0	9.3
160°-170°	530.0	6.3
170°-180°	187.0	2.2
0°-30°	1059.8	12.6
0°-40°	1672.3	19.9
0°-60°	2763.8	32.8
0°-90°	3371.3	40.0
90°-120°	964.2	11.5
90°-150°	3548.5	42.1
90°-180°	5047.0	59.9
0°-180°	8418.7	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	2	0	2	4
95°	74	65	62	48	48	86
105°	312	307	300	282	279	331
115°	593	591	580	563	562	585
125°	882	891	872	854	855	787
135°	1175	1188	1169	1147	1155	905
145°	1456	1472	1450	1433	1443	910
155°	1703	1719	1695	1685	1698	783
165°	1882	1902	1877	1867	1883	530
175°	1971	1992	1967	1954	1959	187
180°	1979	1979	1979	1979	1979	



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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	12.7	10.6	10.9
90°	0.0	0.0	1.5	0.0	1.5
92.5°	18.5	16.1	15.1	9.9	11.4
95°	74.1	65.0	61.8	47.9	47.9
97.5°	139.9	130.8	126.0	111.7	108.7
100°	186.8	177.7	172.9	157.4	154.4
102.5°	235.0	230.7	222.3	205.6	202.5
105°	311.8	307.3	299.5	282.4	279.4
107.5°	390.9	391.8	380.1	366.1	361.9
110°	447.7	446.2	436.9	422.9	419.9

TEST NUMBER: P824248

CATALOG NUMBER: CB2-D-125U-085D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	505.7	503.0	493.7	479.7	476.7
115°	592.8	591.3	580.5	563.4	561.9
117.5°	675.6	680.4	667.5	649.6	649.0
120°	734.8	740.9	725.6	710.1	707.1
122.5°	792.9	800.1	784.9	767.0	767.6
125°	881.5	890.6	872.2	853.7	855.3
127.5°	967.0	978.2	961.2	942.4	944.2
130°	1025.1	1038.7	1020.4	1000.4	1003.5
132.5°	1084.4	1097.9	1079.7	1058.5	1064.0
135°	1174.8	1188.4	1168.6	1147.2	1154.8
137.5°	1260.0	1273.6	1252.0	1234.0	1243.1
140°	1316.8	1330.4	1307.6	1290.8	1299.9
142.5°	1372.4	1388.4	1364.4	1346.4	1357.9
145°	1455.8	1472.4	1449.6	1432.9	1443.4
147.5°	1534.8	1551.4	1528.3	1512.2	1523.1
150°	1585.5	1602.1	1577.7	1564.1	1576.2
152.5°	1632.4	1651.4	1625.9	1612.4	1628.1
155°	1702.8	1719.4	1695.1	1684.6	1698.2
157.5°	1763.9	1783.2	1759.0	1750.0	1760.8
160°	1804.7	1822.8	1798.5	1789.5	1801.6
162.5°	1835.6	1854.9	1831.9	1821.7	1836.2
165°	1881.9	1901.5	1877.2	1866.8	1883.4
167.5°	1918.3	1939.1	1914.6	1903.9	1920.8
170°	1940.5	1960.2	1934.4	1922.4	1940.5
172.5°	1955.4	1976.2	1949.2	1937.1	1949.2
175°	1971.4	1992.5	1966.8	1954.5	1959.1
177.5°	1979.1	1996.0	1975.4	1964.6	1979.1
180°	1979.1	1979.1	1979.1	1979.1	1979.1

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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	17.21	17.98	18.25	19.02	20.43	16.11	16.88	17.15	17.92	19.33
	3H	18.85	19.54	19.90	20.59	22.02	17.63	18.32	18.68	19.37	20.80
	4H	19.47	20.13	20.53	21.18	22.62	18.20	18.85	19.26	19.91	21.34
	6H	19.87	20.47	20.94	21.53	22.98	18.57	19.17	19.64	20.23	21.67
	8H	20.02	20.59	21.09	21.66	23.10	18.70	19.28	19.78	20.35	21.79
	12H	20.09	20.63	21.17	21.70	23.16	18.76	19.31	19.84	20.38	21.84
4H	2H	17.61	18.26	18.68	19.32	20.75	16.73	17.39	17.80	18.44	19.88
	3H	19.47	20.01	20.55	21.10	22.54	18.46	19.01	19.54	20.09	21.53
	4H	20.21	20.71	21.29	21.78	23.25	19.13	19.63	20.21	20.70	22.17
	6H	20.73	21.15	21.82	22.25	23.71	19.60	20.03	20.69	21.13	22.59
	8H	20.93	21.33	22.02	22.42	23.90	19.79	20.19	20.88	21.28	22.76
	12H	21.03	21.39	22.14	22.50	23.98	19.87	20.23	20.98	21.34	22.82
8H	4H	20.36	20.76	21.45	21.85	23.33	19.40	19.80	20.49	20.89	22.36
	6H	21.00	21.33	22.11	22.46	23.93	20.00	20.33	21.11	21.46	22.93
	8H	21.29	21.58	22.41	22.69	24.19	20.27	20.56	21.39	21.67	23.17
	12H	21.46	21.71	22.58	22.82	24.35	20.42	20.67	21.54	21.78	23.31
12H	4H	20.34	20.70	21.44	21.80	23.28	19.40	19.76	20.50	20.86	22.34
	6H	21.03	21.32	22.15	22.43	23.92	20.06	20.35	21.18	21.46	22.96
	8H	21.34	21.59	22.46	22.70	24.24	20.36	20.62	21.48	21.72	23.26