

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: P824344

Luminaire Tested: CB3-D-125U-085D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824344
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-125U-085D-835-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
3-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: 8418.5 lumens
Efficiency: N/A
Efficacy: 133.8 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

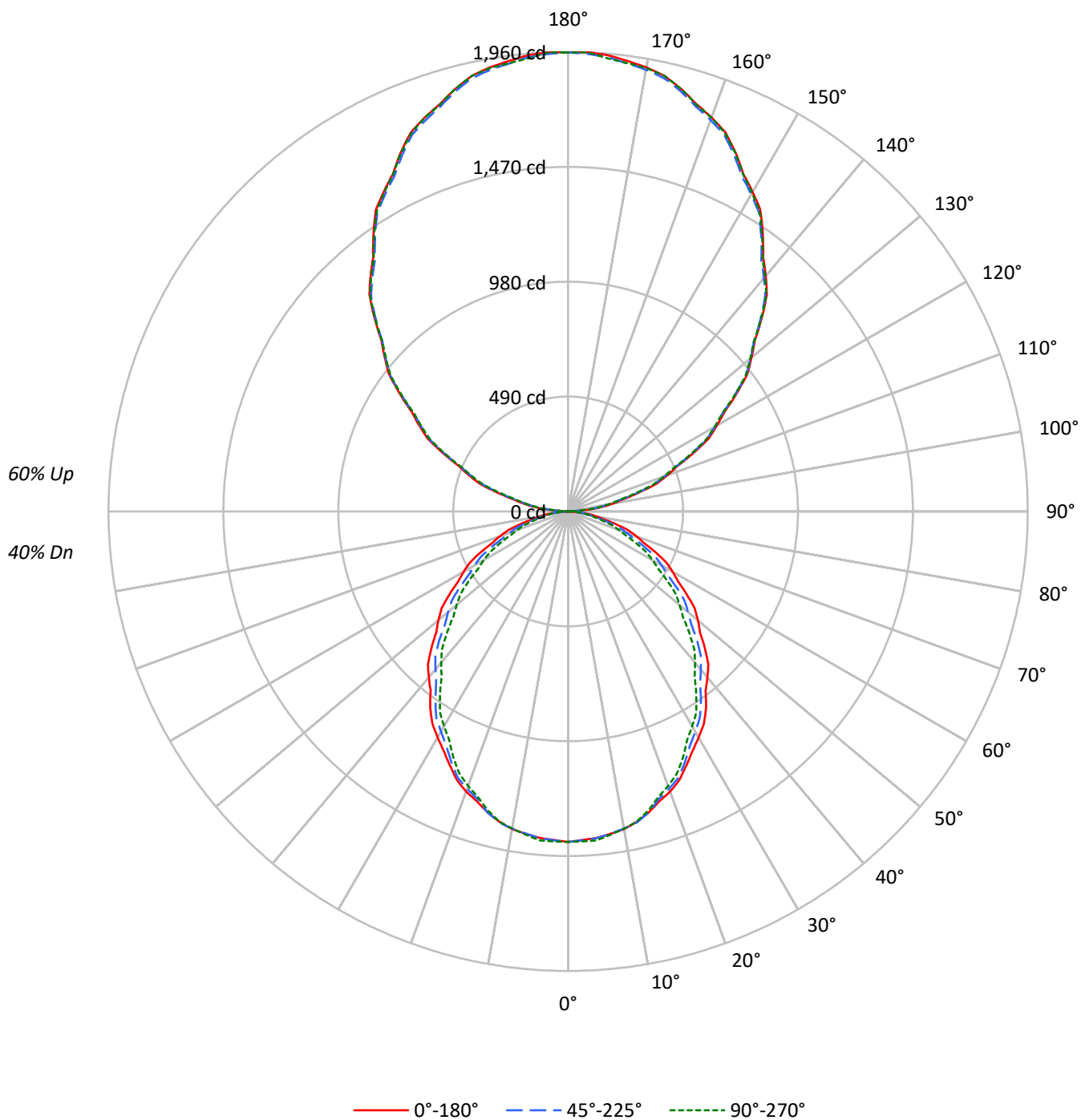
Input Watts (W): 62.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40		40
1	96	92	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	34		34
2	87	80	74	69	79	73	68	64	60	56	53	48	46	43	37	35	34	29		29
3	80	70	63	58	72	64	58	53	53	49	45	43	39	37	33	31	29	24		24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	32	29	27	25	21		21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	27	24	22	18		18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16		16
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14		14
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	18	15	13		13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12		12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	17	15	13	11		11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15948	15948	15948
5°	15873	15884	15992
10°	15803	15780	15780
15°	15562	15562	15468
20°	15310	15153	15003
25°	14906	14719	14457
30°	14541	14162	13823
35°	14158	13633	13150
40°	13648	12998	12436
45°	13185	12433	11665
50°	12709	11758	10913
55°	12191	11106	10199
60°	11631	10432	9391
65°	10977	9665	8540
70°	10222	8767	7609
75°	9268	7694	6776
80°	8080	6451	5995
85°	6231	5452	5452

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13185 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	1.6
10°-20°	373.6	4.4
20°-30°	542.4	6.4
30°-40°	616.5	7.3
40°-50°	598.5	7.1
50°-60°	505.3	6.0
60°-70°	359.5	4.3
70°-80°	192.1	2.3
80°-90°	50.7	0.6
90°-100°	82.7	1.0
100°-110°	323.7	3.8
110°-120°	577.0	6.9
120°-130°	780.8	9.3
130°-140°	897.7	10.7
140°-150°	900.8	10.7
150°-160°	774.7	9.2
160°-170°	524.4	6.2
170°-180°	184.9	2.2
0°-30°	1049.1	12.5
0°-40°	1665.6	19.8
0°-60°	2769.3	32.9
0°-90°	3371.7	40.1
90°-120°	983.5	11.7
90°-150°	3562.8	42.3
90°-180°	5047.0	60.0
0°-180°	8418.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1410	1410	1410	1410	1410	
5°	1398	1415	1398	1397	1408	133
15°	1328	1340	1328	1320	1320	374
25°	1194	1198	1179	1163	1158	550
35°	1025	1015	987	958	952	639
45°	824	811	777	740	729	636
55°	618	601	563	527	517	553
65°	410	395	361	329	319	406
75°	212	200	176	158	155	226
85°	48	44	42	42	42	57
90°	0	0	0	0	0	5
95°	80	72	65	60	62	91
105°	314	312	302	297	294	335
115°	589	592	578	576	575	583
125°	877	887	869	866	868	784
135°	1168	1180	1161	1152	1164	901
145°	1447	1459	1435	1428	1441	904
155°	1689	1704	1676	1668	1686	777
165°	1865	1881	1856	1846	1865	525
175°	1953	1971	1944	1933	1940	185
180°	1958	1958	1958	1958	1958	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1409.5	1409.5	1409.5	1409.5	1409.5
2.5°	1402.3	1416.4	1403.9	1405.6	1408.7
5°	1397.5	1415.1	1398.5	1396.8	1408.0
7.5°	1386.7	1402.7	1385.5	1381.5	1390.3
10°	1375.5	1393.1	1373.5	1368.6	1373.5
12.5°	1355.5	1373.9	1358.3	1350.2	1354.3
15°	1328.5	1340.2	1328.5	1320.5	1320.5
17.5°	1295.5	1307.8	1285.7	1280.0	1277.6
20°	1271.5	1282.3	1258.5	1250.4	1246.0
22.5°	1239.5	1249.5	1229.7	1214.8	1210.8
25°	1194.0	1197.9	1179.0	1162.9	1158.0
27.5°	1149.8	1150.8	1124.8	1105.3	1098.8
30°	1113.0	1114.0	1084.0	1062.9	1058.0
32.5°	1076.2	1073.3	1044.8	1019.7	1016.4
35°	1025.0	1015.2	987.0	957.9	952.0
37.5°	963.2	957.3	924.0	894.8	886.0
40°	924.0	914.2	880.0	850.8	842.0
42.5°	884.8	873.5	838.4	806.0	796.4
45°	824.0	811.3	777.0	739.8	729.0
47.5°	762.8	748.9	711.2	675.1	663.2
50°	722.0	707.3	668.0	632.7	620.0
52.5°	680.4	665.0	625.6	589.6	579.2
55°	618.0	601.4	563.0	526.8	517.0
57.5°	555.6	539.2	501.0	466.7	455.0
60°	514.0	498.4	461.0	426.7	415.0
62.5°	471.6	456.7	420.2	386.8	375.8
65°	410.0	395.3	361.0	328.8	319.0
67.5°	349.0	336.5	302.6	273.0	265.2
70°	309.0	297.3	265.0	237.8	230.0
72.5°	270.6	258.1	227.4	204.3	198.8
75°	212.0	200.3	176.0	157.9	155.0
77.5°	158.4	148.8	127.8	117.6	116.0
80°	124.0	115.2	99.0	92.0	92.0
82.5°	92.0	84.8	74.2	71.2	71.2
85°	48.0	44.1	42.0	42.0	42.0
87.5°	14.4	14.4	13.6	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	21.6	19.3	12.0	9.6	9.6
95°	79.6	72.2	64.6	60.1	61.6
97.5°	146.8	139.8	130.3	125.8	127.0
100°	193.7	187.8	177.2	172.7	172.7
102.5°	239.3	235.8	225.2	220.7	221.9
105°	313.8	312.3	301.8	297.2	294.3
107.5°	396.1	393.4	381.7	381.3	378.7
110°	448.9	447.5	436.9	435.4	433.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	503.0	505.0	493.4	491.8	490.4
115°	588.6	591.5	578.1	576.5	575.1
117.5°	676.3	680.4	666.1	664.5	661.8
120°	732.7	741.5	723.7	722.2	720.7
122.5°	790.4	798.0	781.4	778.7	778.4
125°	876.9	887.1	869.4	866.4	867.8
127.5°	963.3	973.9	957.3	951.4	954.6
130°	1021.0	1032.7	1015.0	1009.1	1013.5
132.5°	1079.9	1091.6	1073.9	1068.0	1074.8
135°	1168.1	1179.9	1160.6	1151.9	1163.6
137.5°	1254.3	1264.6	1243.5	1237.5	1249.8
140°	1310.8	1321.1	1298.8	1291.6	1306.3
142.5°	1366.0	1377.5	1352.8	1345.7	1361.5
145°	1447.4	1459.2	1435.4	1428.2	1441.4
147.5°	1525.5	1537.5	1513.5	1505.1	1518.6
150°	1573.5	1586.8	1561.5	1554.4	1569.0
152.5°	1620.4	1634.8	1608.4	1600.1	1618.3
155°	1689.2	1703.8	1675.6	1668.5	1686.2
157.5°	1751.0	1764.5	1739.0	1731.8	1747.1
160°	1788.3	1802.9	1776.2	1769.1	1786.7
162.5°	1820.7	1835.4	1811.1	1801.6	1819.2
165°	1864.8	1881.0	1855.8	1845.7	1864.8
167.5°	1901.8	1919.1	1892.5	1883.3	1902.4
170°	1923.4	1939.5	1912.9	1901.3	1920.4
172.5°	1937.8	1953.9	1927.3	1915.6	1928.8
175°	1953.4	1971.0	1944.4	1932.6	1939.9
177.5°	1960.3	1974.4	1953.1	1942.7	1959.1
180°	1957.9	1957.9	1957.9	1957.9	1957.9

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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	15.77	16.54	16.81	17.58	18.99	14.69	15.46	15.73	16.50	17.91
	3H	17.43	18.12	18.48	19.17	20.60	16.10	16.79	17.15	17.84	19.27
	4H	18.05	18.71	19.12	19.76	21.20	16.61	17.26	17.67	18.32	19.75
	6H	18.43	19.04	19.51	20.10	21.54	16.92	17.52	17.99	18.58	20.03
	8H	18.57	19.14	19.65	20.22	21.66	17.04	17.62	18.12	18.69	20.13
	12H	18.63	19.18	19.71	20.25	21.71	17.12	17.66	18.20	18.73	20.19
4H	2H	16.17	16.82	17.23	17.87	19.31	15.31	15.96	16.37	17.02	18.45
	3H	18.05	18.59	19.12	19.67	21.12	16.92	17.46	17.99	18.54	19.99
	4H	18.79	19.29	19.87	20.36	21.83	17.52	18.02	18.60	19.09	20.56
	6H	19.29	19.72	20.38	20.81	22.28	17.93	18.36	19.02	19.45	20.91
	8H	19.48	19.88	20.57	20.97	22.44	18.10	18.50	19.19	19.58	21.06
	12H	19.57	19.93	20.68	21.04	22.52	18.20	18.56	19.30	19.66	21.14
8H	4H	18.91	19.31	20.00	20.40	21.88	17.77	18.17	18.86	19.26	20.74
	6H	19.53	19.86	20.64	20.99	22.47	18.30	18.63	19.41	19.76	21.24
	8H	19.80	20.09	20.92	21.21	22.70	18.55	18.84	19.67	19.95	21.45
	12H	19.96	20.22	21.09	21.33	22.86	18.72	18.98	19.85	20.09	21.62
12H	4H	18.88	19.24	19.99	20.35	21.83	17.77	18.13	18.88	19.24	20.72
	6H	19.55	19.83	20.66	20.95	22.44	18.36	18.65	19.47	19.76	21.25
	8H	19.84	20.09	20.96	21.20	22.74	18.63	18.89	19.76	20.00	21.53