

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: P824278

Luminaire Tested: CB3-D-030U-085D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824278
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-030U-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 300 LUMENS PER FOOT
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4525.0 lumens
Efficiency: N/A
Efficacy: 133.9 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: Semi-Direct

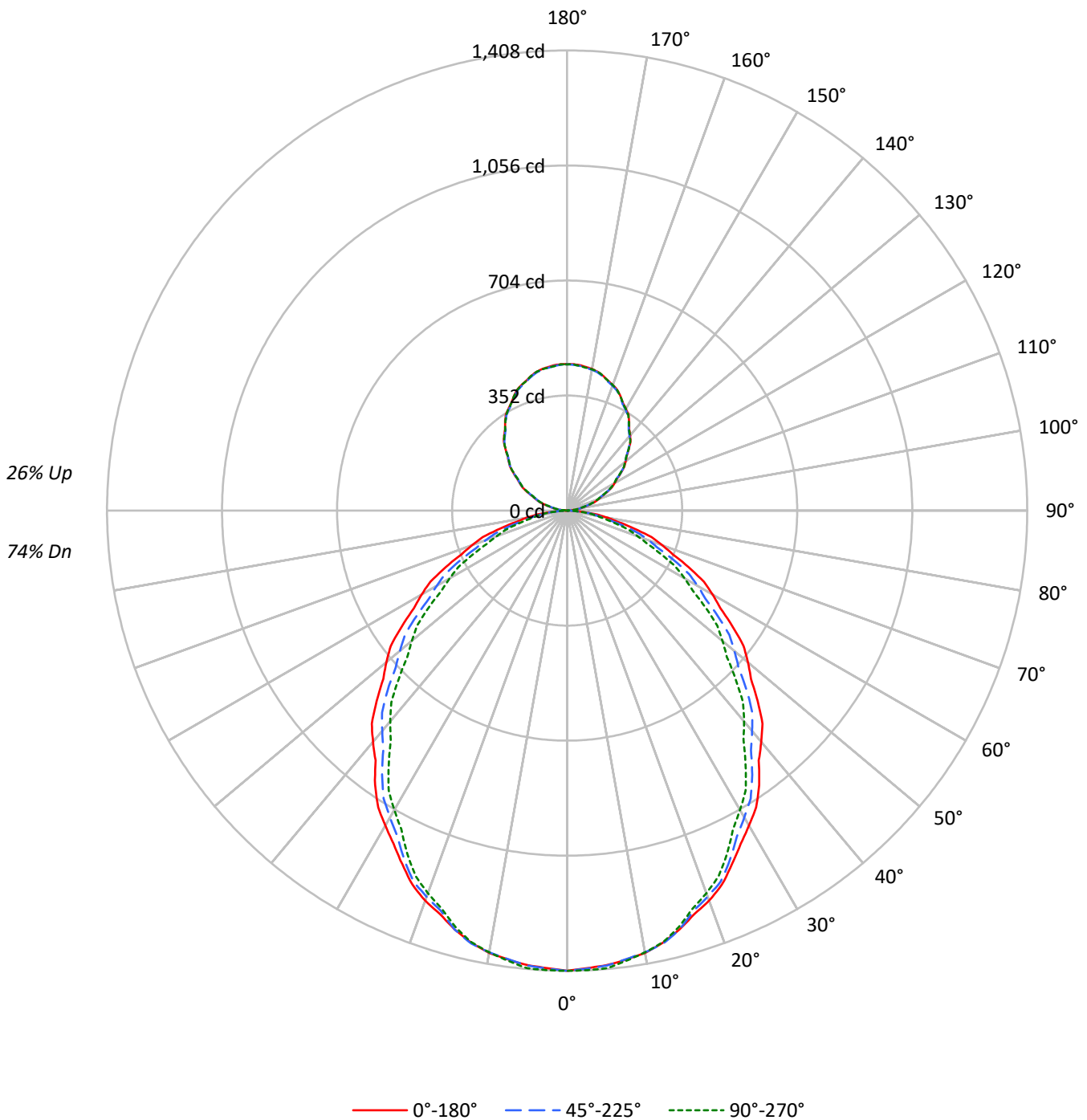
Input Watts (W): 33.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P824278

CATALOG NUMBER: CB3-D-030U-085D-835-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P824278

CATALOG NUMBER: CB3-D-030U-085D-835-1D-UNV-STD-W-4

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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	74
1	104	99	95	92	98	94	91	88	86	83	80	77	75	74	70	68	67	63
2	95	87	81	75	90	83	77	73	75	71	67	68	65	62	62	59	57	53
3	86	77	69	63	82	73	66	61	67	61	57	61	56	53	55	52	49	46
4	79	68	60	54	75	65	58	52	60	53	49	54	49	45	49	45	42	39
5	73	61	53	47	69	58	51	45	54	47	42	49	44	40	45	40	37	34
6	67	55	47	41	64	53	45	39	48	42	37	44	39	35	41	36	33	30
7	63	50	42	36	59	48	40	35	44	38	33	41	35	31	37	33	29	27
8	58	46	38	32	55	44	36	31	40	34	30	37	32	28	34	30	26	24
9	54	42	34	29	52	40	33	28	37	31	27	34	29	25	32	27	24	22
10	51	38	31	26	48	37	30	25	34	28	24	32	27	23	29	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15934	15934	15934
5°	15859	15870	15966
10°	15789	15767	15767
15°	15548	15548	15454
20°	15295	15139	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



TEST NUMBER: P824278

CATALOG NUMBER: CB3-D-030U-085D-835-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	2.9
10°-20°	373.3	8.3
20°-30°	542.3	12.0
30°-40°	616.5	13.6
40°-50°	598.5	13.2
50°-60°	505.3	11.2
60°-70°	359.5	7.9
70°-80°	192.1	4.2
80°-90°	50.7	1.1
90°-100°	18.9	0.4
100°-110°	74.0	1.6
110°-120°	131.9	2.9
120°-130°	178.5	3.9
130°-140°	205.2	4.5
140°-150°	205.9	4.6
150°-160°	177.1	3.9
160°-170°	119.9	2.6
170°-180°	42.3	0.9
0°-30°	1048.5	23.2
0°-40°	1665.0	36.8
0°-60°	2768.8	61.2
0°-90°	3371.1	74.5
90°-120°	224.9	5.0
90°-150°	814.6	18.0
90°-180°	1154.0	25.5
0°-180°	4525.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1396	1414	1397	1396	1406	133
15°	1327	1339	1327	1319	1319	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	3
95°	18	16	15	14	14	21
105°	72	71	69	68	67	77
115°	135	135	132	132	132	133
125°	200	203	199	198	198	179
135°	267	270	265	263	266	206
145°	331	334	328	326	330	207
155°	386	390	383	382	386	178
165°	426	430	424	422	426	120
175°	447	451	445	442	444	42
180°	448	448	448	448	448	

TEST NUMBER: P824278

CATALOG NUMBER: CB3-D-030U-085D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1408.3	1408.3	1408.3	1408.3	1408.3
2.5°	1401.1	1415.2	1402.7	1404.4	1407.5
5°	1396.3	1413.9	1397.3	1395.6	1405.7
7.5°	1385.5	1401.6	1384.3	1380.3	1389.1
10°	1374.3	1391.9	1372.3	1367.5	1372.3
12.5°	1354.3	1372.7	1357.1	1349.0	1353.1
15°	1327.3	1339.1	1327.3	1319.3	1319.3
17.5°	1294.3	1306.7	1284.5	1278.9	1276.7
20°	1270.3	1281.1	1257.3	1249.3	1246.0
22.5°	1238.3	1248.3	1228.5	1214.6	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°	4.9	4.4	2.7	2.2	2.2
95°	18.2	16.5	14.8	13.7	14.1
97.5°	33.6	32.0	29.8	28.8	29.0
100°	44.3	42.9	40.5	39.5	39.5
102.5°	54.7	53.9	51.5	50.5	50.7
105°	71.7	71.4	69.0	68.0	67.3
107.5°	90.6	90.0	87.3	87.2	86.6
110°	102.6	102.3	99.9	99.5	99.2



TEST NUMBER: P824278

CATALOG NUMBER: CB3-D-030U-085D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	115.0	115.5	112.8	112.5	112.1
115°	134.6	135.2	132.2	131.8	131.5
117.5°	154.6	155.6	152.3	151.9	151.3
120°	167.5	169.5	165.5	165.1	164.8
122.5°	180.7	182.5	178.6	178.0	178.0
125°	200.5	202.8	198.8	198.1	198.4
127.5°	220.3	222.7	218.9	217.5	218.3
130°	233.4	236.1	232.1	230.7	231.7
132.5°	246.9	249.6	245.5	244.2	245.7
135°	267.1	269.8	265.4	263.4	266.0
137.5°	286.8	289.1	284.3	282.9	285.8
140°	299.7	302.0	296.9	295.3	298.7
142.5°	312.3	314.9	309.3	307.7	311.3
145°	330.9	333.6	328.2	326.5	329.6
147.5°	348.8	351.5	346.0	344.1	347.2
150°	359.8	362.8	357.0	355.4	358.7
152.5°	370.5	373.8	367.7	365.8	370.0
155°	386.2	389.6	383.1	381.5	385.5
157.5°	400.3	403.4	397.6	396.0	399.4
160°	408.9	412.2	406.1	404.5	408.5
162.5°	416.3	419.6	414.1	411.9	415.9
165°	426.4	430.1	424.3	422.0	426.4
167.5°	434.8	438.8	432.7	430.6	434.9
170°	439.7	443.4	437.3	434.7	439.1
172.5°	443.0	446.7	440.6	438.0	441.0
175°	446.6	450.6	444.6	441.8	443.5
177.5°	448.2	451.4	446.5	444.2	447.9
180°	447.6	447.6	447.6	447.6	447.6

TEST NUMBER: P824278
 CATALOG NUMBER: CB3-D-030U-085D-835-1D-UNV-STD-W-4

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	18.78	19.90	19.50	20.64	21.51	17.71	18.82	18.42	19.56	20.43
	3H	20.47	21.47	21.20	22.22	23.12	19.14	20.14	19.87	20.88	21.79
	4H	21.11	22.06	21.86	22.81	23.73	19.67	20.61	20.42	21.37	22.28
	6H	21.51	22.38	22.27	23.15	24.08	20.00	20.87	20.76	21.63	22.56
	8H	21.65	22.48	22.43	23.27	24.20	20.13	20.96	20.90	21.74	22.67
	12H	21.73	22.52	22.51	23.30	24.26	20.21	21.00	20.99	21.78	22.74
4H	2H	19.22	20.17	19.97	20.92	21.84	18.36	19.31	19.12	20.06	20.98
	3H	21.14	21.92	21.90	22.71	23.65	20.01	20.79	20.77	21.58	22.52
	4H	21.89	22.61	22.67	23.40	24.36	20.62	21.34	21.40	22.13	23.09
	6H	22.41	23.03	23.21	23.84	24.81	21.05	21.67	21.85	22.48	23.45
	8H	22.61	23.19	23.41	24.00	24.98	21.22	21.80	22.03	22.61	23.60
	12H	22.72	23.24	23.54	24.07	25.06	21.34	21.86	22.16	22.69	23.68
8H	4H	22.04	22.62	22.84	23.43	24.41	20.90	21.48	21.70	22.29	23.28
	6H	22.67	23.15	23.50	24.00	24.99	21.44	21.92	22.27	22.77	23.76
	8H	22.95	23.38	23.79	24.23	25.23	21.70	22.12	22.54	22.97	23.97
	12H	23.13	23.50	23.97	24.34	25.40	21.88	22.26	22.73	23.10	24.16
12H	4H	22.03	22.55	22.85	23.38	24.37	20.92	21.44	21.74	22.27	23.26
	6H	22.69	23.12	23.53	23.97	24.97	21.50	21.93	22.34	22.78	23.78
	8H	23.00	23.38	23.85	24.22	25.27	21.79	22.17	22.64	23.01	24.07