

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: P824323

Luminaire Tested: CB3-0U-085D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824323
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: CB3-0U-085D-835-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE
3-INCH APERTURE
DOWNLIGHT 850 LUMENS PER FOOT
DIRECT ONLY
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3371.0 lumens
Efficiency: N/A
Efficacy: 130.2 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: Direct

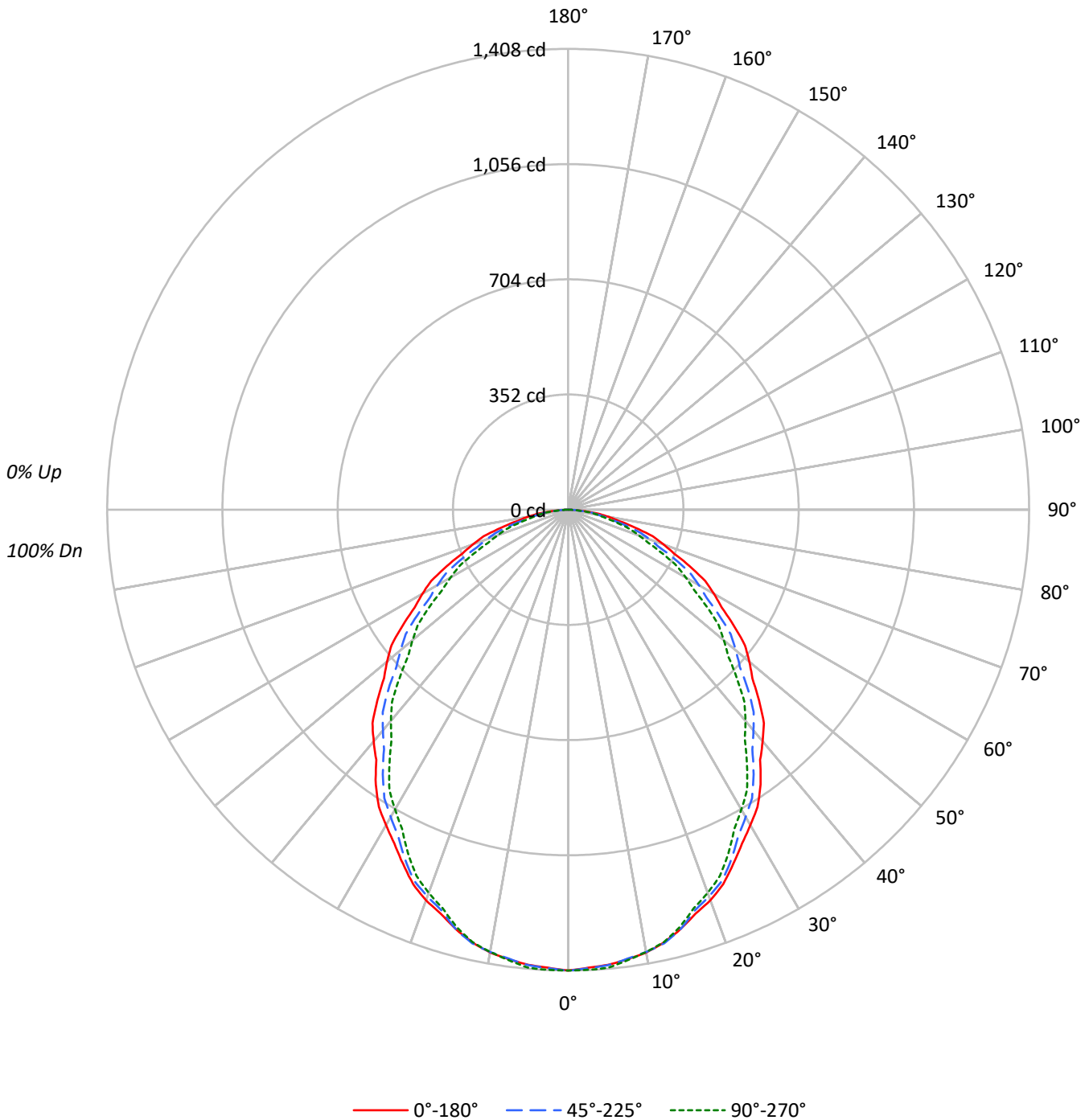
Input Watts (W): 25.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P824323

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

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72				72
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46				46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41				41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36				36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32				32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29				29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15931	15931	15931
5°	15855	15867	15958
10°	15786	15763	15763
15°	15544	15544	15450
20°	15292	15135	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: P824323

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	3.9
10°-20°	373.2	11.1
20°-30°	542.3	16.1
30°-40°	616.5	18.3
40°-50°	598.5	17.8
50°-60°	505.3	15.0
60°-70°	359.5	10.7
70°-80°	192.1	5.7
80°-90°	50.7	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1048.3	31.1
0°-40°	1664.8	49.4
0°-60°	2768.6	82.1
0°-90°	3371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1396	1414	1397	1395	1405	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	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1408.0	1408.0	1408.0	1408.0	1408.0
2.5°	1400.8	1414.9	1402.4	1404.1	1407.2
5°	1396.0	1413.6	1397.0	1395.2	1405.0
7.5°	1385.2	1401.2	1384.0	1380.0	1388.8
10°	1374.0	1391.6	1372.0	1367.1	1372.0
12.5°	1354.0	1372.4	1356.8	1348.7	1352.8
15°	1327.0	1338.7	1327.0	1319.0	1319.0
17.5°	1294.0	1306.3	1284.2	1278.6	1276.4
20°	1270.0	1280.8	1257.0	1248.9	1246.0
22.5°	1238.0	1248.0	1228.2	1214.5	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



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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	20.62	22.20	20.98	22.51	22.82	19.54	21.12	19.90	21.43	21.75
	3H	22.33	23.76	22.71	24.08	24.44	21.00	22.42	21.38	22.75	23.11
	4H	22.99	24.33	23.39	24.68	25.06	21.55	22.89	21.95	23.24	23.61
	6H	23.41	24.65	23.82	25.02	25.41	21.90	23.14	22.31	23.51	23.90
	8H	23.57	24.75	23.99	25.14	25.54	22.04	23.22	22.47	23.61	24.01
	12H	23.66	24.79	24.09	25.17	25.60	22.14	23.27	22.57	23.65	24.08
4H	2H	21.10	22.44	21.50	22.79	23.17	20.24	21.58	20.64	21.93	22.31
	3H	23.06	24.17	23.47	24.57	24.97	21.93	23.04	22.34	23.44	23.84
	4H	23.83	24.84	24.26	25.25	25.69	22.56	23.57	22.99	23.98	24.42
	6H	24.37	25.25	24.83	25.69	26.15	23.01	23.89	23.47	24.33	24.79
	8H	24.58	25.40	25.04	25.84	26.31	23.20	24.02	23.66	24.46	24.93
	12H	24.71	25.45	25.19	25.92	26.39	23.33	24.07	23.82	24.55	25.02
8H	4H	24.01	24.84	24.48	25.28	25.75	22.88	23.70	23.34	24.14	24.61
	6H	24.66	25.34	25.16	25.83	26.31	23.43	24.11	23.93	24.60	25.08
	8H	24.94	25.55	25.45	26.06	26.55	23.69	24.30	24.20	24.81	25.30
	12H	25.14	25.68	25.65	26.17	26.73	23.90	24.44	24.41	24.93	25.49
12H	4H	24.02	24.76	24.50	25.23	25.70	22.91	23.65	23.39	24.12	24.59
	6H	24.68	25.30	25.19	25.80	26.29	23.49	24.11	24.00	24.61	25.10
	8H	25.02	25.56	25.52	26.05	26.61	23.81	24.35	24.32	24.84	25.40