

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: P824317

Luminaire Tested: CB3R-030D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824317
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: CB3R-030D-835-1D-UNV-STD-W-4
Description: CORELITE BRYX SLOT LED LUMINAIRE
3-INCH APERTURE
DOWNLIGHT 300 LUMENS PER FOOT
DIRECT ONLY
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

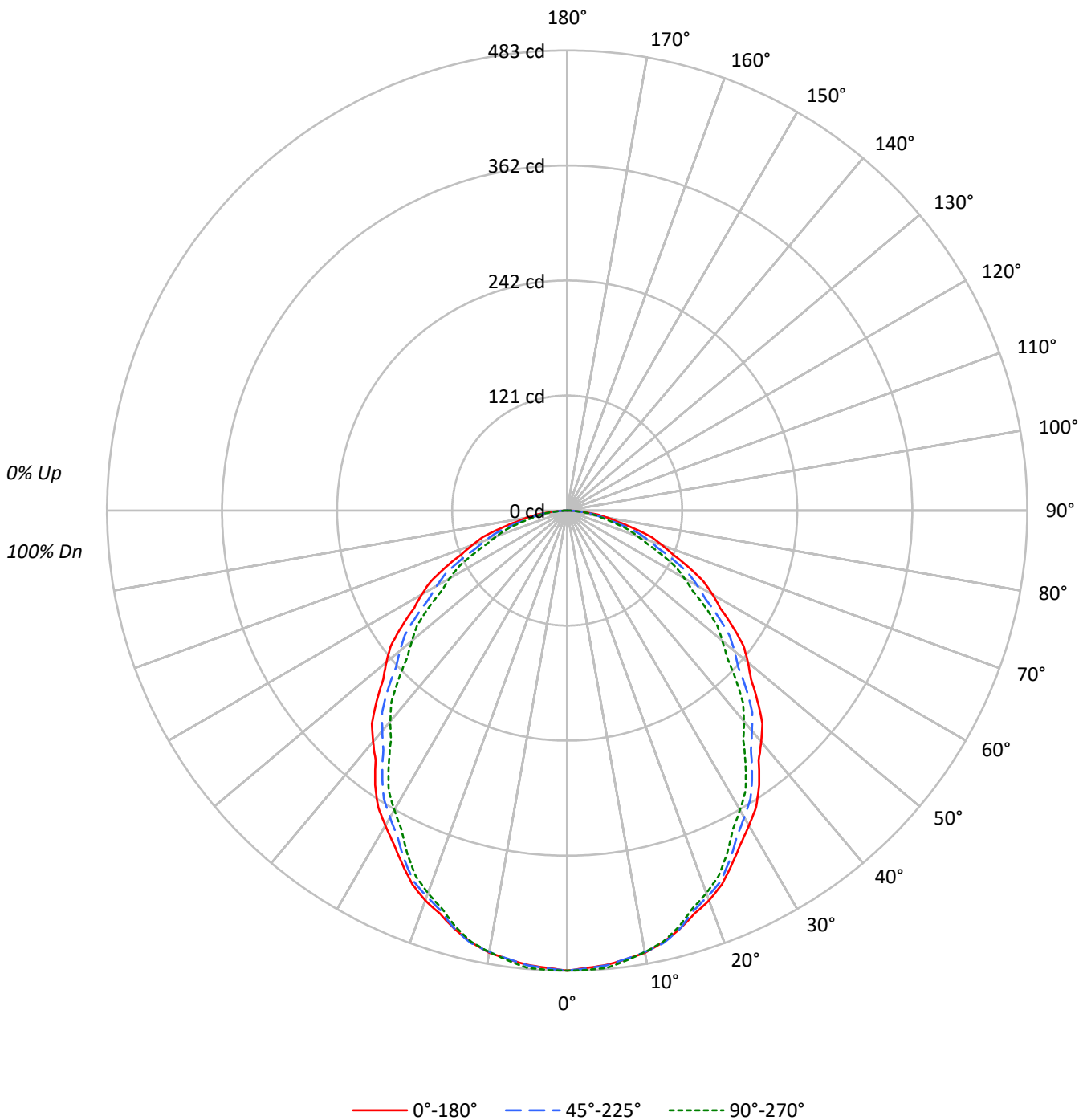
Lumens per Lamp: N/A
Luminaire Lumens: 1156.0 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.24' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 8.8
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: P824317

CATALOG NUMBER: CB3R-030D-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°	5464	5464	5464
5°	5437	5442	5472
10°	5414	5406	5406
15°	5331	5331	5298
20°	5244	5191	5145
25°	5112	5047	4957
30°	4987	4858	4740
35°	4855	4676	4510
40°	4681	4458	4266
45°	4522	4264	4000
50°	4358	4033	3742
55°	4180	3809	3497
60°	3990	3578	3220
65°	3764	3314	2929
70°	3507	3007	2610
75°	3178	2640	2326
80°	2769	2215	2059
85°	2142	1869	1869

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4522 cd/sqm

TEST NUMBER: P824317

CATALOG NUMBER: CB3R-030D-835-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	3.9
10°-20°	128.0	11.1
20°-30°	186.0	16.1
30°-40°	211.4	18.3
40°-50°	205.2	17.8
50°-60°	173.3	15.0
60°-70°	123.3	10.7
70°-80°	65.9	5.7
80°-90°	17.4	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°	359.5	31.1
0°-40°	570.9	49.4
0°-60°	949.5	82.1
0°-90°	1156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1156.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	483	483	483	483	483	
5°	479	485	479	478	482	45
15°	455	459	455	452	452	128
25°	410	411	404	399	397	189
35°	352	348	338	328	326	219
45°	283	278	266	254	250	218
55°	212	206	193	181	177	189
65°	141	136	124	113	109	139
75°	73	69	60	54	53	78
85°	16	15	14	14	14	20
90°	0	0	0	0	0	



TEST NUMBER: P824317

CATALOG NUMBER: CB3R-030D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	482.9	482.9	482.9	482.9	482.9
2.5°	480.4	485.2	480.9	481.5	482.6
5°	478.7	484.8	479.1	478.5	481.8
7.5°	475.0	480.5	474.6	473.3	476.3
10°	471.2	477.2	470.5	468.8	470.5
12.5°	464.3	470.6	465.3	462.5	463.9
15°	455.1	459.1	455.1	452.3	452.3
17.5°	443.8	448.0	440.4	438.5	437.7
20°	435.5	439.2	431.1	428.3	427.3
22.5°	424.6	428.0	421.2	416.5	415.2
25°	409.5	410.8	404.3	398.8	397.1
27.5°	394.3	394.7	385.7	379.0	376.8
30°	381.7	382.0	371.8	364.5	362.8
32.5°	369.1	368.1	358.3	349.7	348.6
35°	351.5	348.2	338.5	328.5	326.5
37.5°	330.3	328.3	316.9	306.9	303.8
40°	316.9	313.5	301.8	291.8	288.8
42.5°	303.4	299.5	287.5	276.4	273.1
45°	282.6	278.2	266.5	253.7	250.0
47.5°	261.6	256.8	243.9	231.5	227.4
50°	247.6	242.6	229.1	217.0	212.6
52.5°	233.3	228.0	214.5	202.2	198.6
55°	211.9	206.2	193.1	180.7	177.3
57.5°	190.5	184.9	171.8	160.1	156.0
60°	176.3	170.9	158.1	146.3	142.3
62.5°	161.7	156.6	144.1	132.6	128.9
65°	140.6	135.6	123.8	112.8	109.4
67.5°	119.7	115.4	103.8	93.6	90.9
70°	106.0	101.9	90.9	81.6	78.9
72.5°	92.8	88.5	78.0	70.1	68.2
75°	72.7	68.7	60.4	54.2	53.2
77.5°	54.3	51.0	43.8	40.3	39.8
80°	42.5	39.5	34.0	31.6	31.6
82.5°	31.6	29.1	25.4	24.4	24.4
85°	16.5	15.1	14.4	14.4	14.4
87.5°	4.9	4.9	4.7	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: CB3R-030D-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	16.90	18.48	17.26	18.79	19.11	15.82	17.40	16.18	17.71	18.03
	3H	18.61	20.04	18.99	20.36	20.73	17.28	18.71	17.66	19.03	19.39
	4H	19.27	20.61	19.67	20.96	21.34	17.83	19.17	18.23	19.52	19.90
	6H	19.69	20.93	20.11	21.30	21.69	18.18	19.42	18.60	19.79	20.18
	8H	19.85	21.03	20.28	21.42	21.82	18.33	19.51	18.75	19.90	20.30
	12H	19.94	21.07	20.37	21.45	21.88	18.42	19.56	18.85	19.94	20.37
4H	2H	17.39	18.72	17.78	19.07	19.45	16.53	17.87	16.93	18.21	18.59
	3H	19.34	20.45	19.75	20.85	21.25	18.21	19.33	18.62	19.72	20.12
	4H	20.11	21.12	20.54	21.54	21.97	18.84	19.85	19.27	20.27	20.70
	6H	20.65	21.53	21.11	21.97	22.43	19.29	20.17	19.75	20.61	21.07
	8H	20.86	21.68	21.32	22.13	22.59	19.48	20.30	19.94	20.74	21.21
	12H	20.99	21.73	21.47	22.21	22.68	19.62	20.35	20.10	20.83	21.30
8H	4H	20.30	21.12	20.76	21.56	22.03	19.16	19.98	19.62	20.42	20.89
	6H	20.94	21.62	21.44	22.11	22.59	19.72	20.40	20.21	20.89	21.36
	8H	21.22	21.84	21.74	22.34	22.83	19.97	20.58	20.48	21.09	21.58
	12H	21.42	21.96	21.93	22.45	23.02	20.18	20.72	20.69	21.21	21.78
12H	4H	20.30	21.04	20.78	21.52	21.99	19.19	19.93	19.67	20.41	20.88
	6H	20.96	21.58	21.48	22.08	22.57	19.78	20.39	20.29	20.90	21.38
	8H	21.30	21.84	21.81	22.33	22.89	20.09	20.63	20.60	21.12	21.69