

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: P824321

Luminaire Tested: CB3R-055D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824321
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-055D-840-1D-UNV-STD-W-4
Description: CORELITE BRYX SLOT LED LUMINAIRE
3-INCH APERTURE
DOWNLIGHT 550 LUMENS PER FOOT
DIRECT ONLY
Light Source: 80 CRI, 4000K CCT LEDS
Ballast/Driver: -

Summary

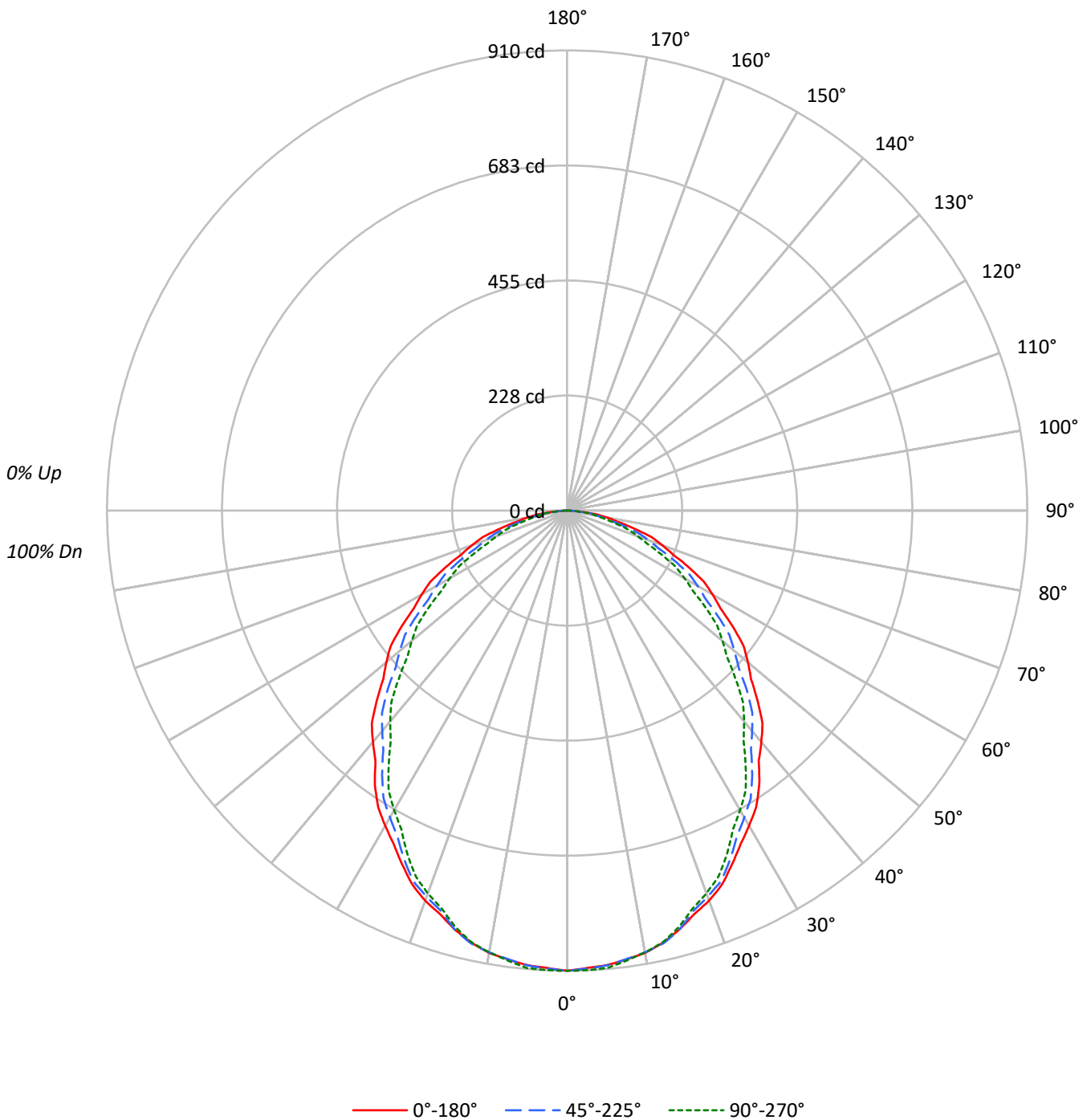
Lumens per Lamp: N/A
Luminaire Lumens: 2179.0 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.24' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.8
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

TEST NUMBER: P824321

CATALOG NUMBER: CB3R-055D-840-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P824321

CATALOG NUMBER: CB3R-055D-840-1D-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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10297	10297	10297
5°	10249	10256	10315
10°	10205	10190	10190
15°	10048	10048	9987
20°	9884	9783	9698
25°	9635	9514	9344
30°	9400	9155	8935
35°	9152	8812	8500
40°	8822	8401	8039
45°	8522	8037	7540
50°	8215	7601	7055
55°	7881	7178	6593
60°	7520	6743	6071
65°	7095	6249	5521
70°	6606	5667	4919
75°	5989	4975	4380
80°	5226	4170	3877
85°	4024	3518	3518

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8522 cd/sqm



TEST NUMBER: P824321

CATALOG NUMBER: CB3R-055D-840-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	3.9
10°-20°	241.3	11.1
20°-30°	350.5	16.1
30°-40°	398.5	18.3
40°-50°	386.9	17.8
50°-60°	326.6	15.0
60°-70°	232.4	10.7
70°-80°	124.2	5.7
80°-90°	32.8	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°	677.6	31.1
0°-40°	1076.2	49.4
0°-60°	1789.7	82.1
0°-90°	2179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2179.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	902	914	903	902	908	86
15°	858	865	858	853	853	242
25°	772	774	762	752	748	356
35°	663	656	638	619	615	413
45°	533	524	502	478	471	411
55°	400	389	364	340	334	357
65°	265	256	233	212	206	262
75°	137	130	114	102	100	146
85°	31	28	27	27	27	38
90°	0	0	0	0	0	



TEST NUMBER: P824321

CATALOG NUMBER: CB3R-055D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.1	910.1	910.1	910.1	910.1
2.5°	905.5	914.6	906.5	907.6	909.6
5°	902.4	913.8	903.0	901.9	908.2
7.5°	895.4	905.8	894.6	892.0	897.7
10°	888.2	899.5	886.9	883.7	886.9
12.5°	875.2	887.1	877.1	871.8	874.5
15°	857.8	865.4	857.8	852.6	852.6
17.5°	836.5	844.4	830.1	826.5	825.1
20°	820.9	827.9	812.5	807.3	805.4
22.5°	800.3	806.7	793.9	785.1	782.7
25°	771.8	774.3	762.1	751.7	748.5
27.5°	743.2	743.9	727.1	714.4	710.3
30°	719.5	720.1	700.7	687.1	683.9
32.5°	695.7	693.8	675.4	659.2	657.0
35°	662.6	656.3	638.0	619.2	615.4
37.5°	622.6	618.8	597.3	578.4	572.7
40°	597.3	591.0	568.8	550.0	544.3
42.5°	571.9	564.6	542.0	521.0	514.8
45°	532.6	524.4	502.3	478.2	471.2
47.5°	493.1	484.1	459.7	436.4	428.7
50°	466.7	457.2	431.8	409.0	400.8
52.5°	439.8	429.8	404.4	381.1	374.4
55°	399.5	388.7	363.9	340.5	334.2
57.5°	359.1	348.5	323.9	301.7	294.1
60°	332.3	322.1	298.0	275.8	268.3
62.5°	304.8	295.2	271.6	250.0	242.9
65°	265.0	255.5	233.4	212.5	206.2
67.5°	225.6	217.5	195.6	176.5	171.4
70°	199.7	192.2	171.3	153.7	148.7
72.5°	174.9	166.8	147.0	132.0	128.5
75°	137.0	129.5	113.8	102.1	100.2
77.5°	102.4	96.2	82.6	76.0	75.0
80°	80.2	74.5	64.0	59.5	59.5
82.5°	59.5	54.8	48.0	46.0	46.0
85°	31.0	28.5	27.1	27.1	27.1
87.5°	9.3	9.3	8.8	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P824321
 CATALOG NUMBER: CB3R-055D-840-1D-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	19.10	20.68	19.46	20.99	21.31	18.02	19.60	18.39	19.92	20.23
	3H	20.82	22.24	21.19	22.57	22.93	19.48	20.91	19.86	21.24	21.60
	4H	21.48	22.82	21.88	23.16	23.54	20.03	21.37	20.43	21.72	22.10
	6H	21.90	23.14	22.31	23.50	23.89	20.39	21.62	20.80	21.99	22.38
	8H	22.05	23.24	22.48	23.62	24.02	20.53	21.71	20.95	22.10	22.50
	12H	22.14	23.28	22.57	23.66	24.09	20.63	21.76	21.06	22.14	22.57
4H	2H	19.59	20.93	19.99	21.27	21.65	18.73	20.07	19.13	20.42	20.79
	3H	21.54	22.66	21.95	23.05	23.46	20.41	21.53	20.82	21.93	22.33
	4H	22.32	23.32	22.75	23.74	24.18	21.04	22.05	21.48	22.47	22.90
	6H	22.86	23.74	23.31	24.18	24.63	21.50	22.37	21.95	22.82	23.27
	8H	23.06	23.89	23.52	24.33	24.79	21.68	22.50	22.14	22.95	23.41
	12H	23.19	23.93	23.68	24.41	24.88	21.82	22.56	22.30	23.03	23.50
8H	4H	22.50	23.32	22.96	23.76	24.23	21.36	22.18	21.82	22.62	23.09
	6H	23.15	23.83	23.64	24.32	24.79	21.92	22.60	22.41	23.09	23.56
	8H	23.43	24.04	23.94	24.55	25.03	22.17	22.79	22.69	23.29	23.78
	12H	23.62	24.16	24.13	24.66	25.22	22.38	22.92	22.89	23.41	23.98
12H	4H	22.51	23.24	22.99	23.72	24.19	21.40	22.13	21.88	22.61	23.08
	6H	23.17	23.78	23.68	24.29	24.77	21.98	22.59	22.49	23.10	23.58
	8H	23.50	24.04	24.01	24.53	25.09	22.29	22.83	22.80	23.32	23.89