

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: P845467

Luminaire Tested: SQ2R-BBN-125D-935-UNV-STD-W-4

Issue Date: 6/14/2024

Test Information

Test Method: LM-79-2019
Report Number: P845467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-130-1)
Test Lab: INNOVATION CENTER
Issue Date: 6/14/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2R-BBN-125D-935-UNV-STD-W-4
Description: CONTINUA SQ2 RECESSED, DISCREET OPTICS - BLACK BAFFLE, NARROW 35-DEGREE OPTIC
1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

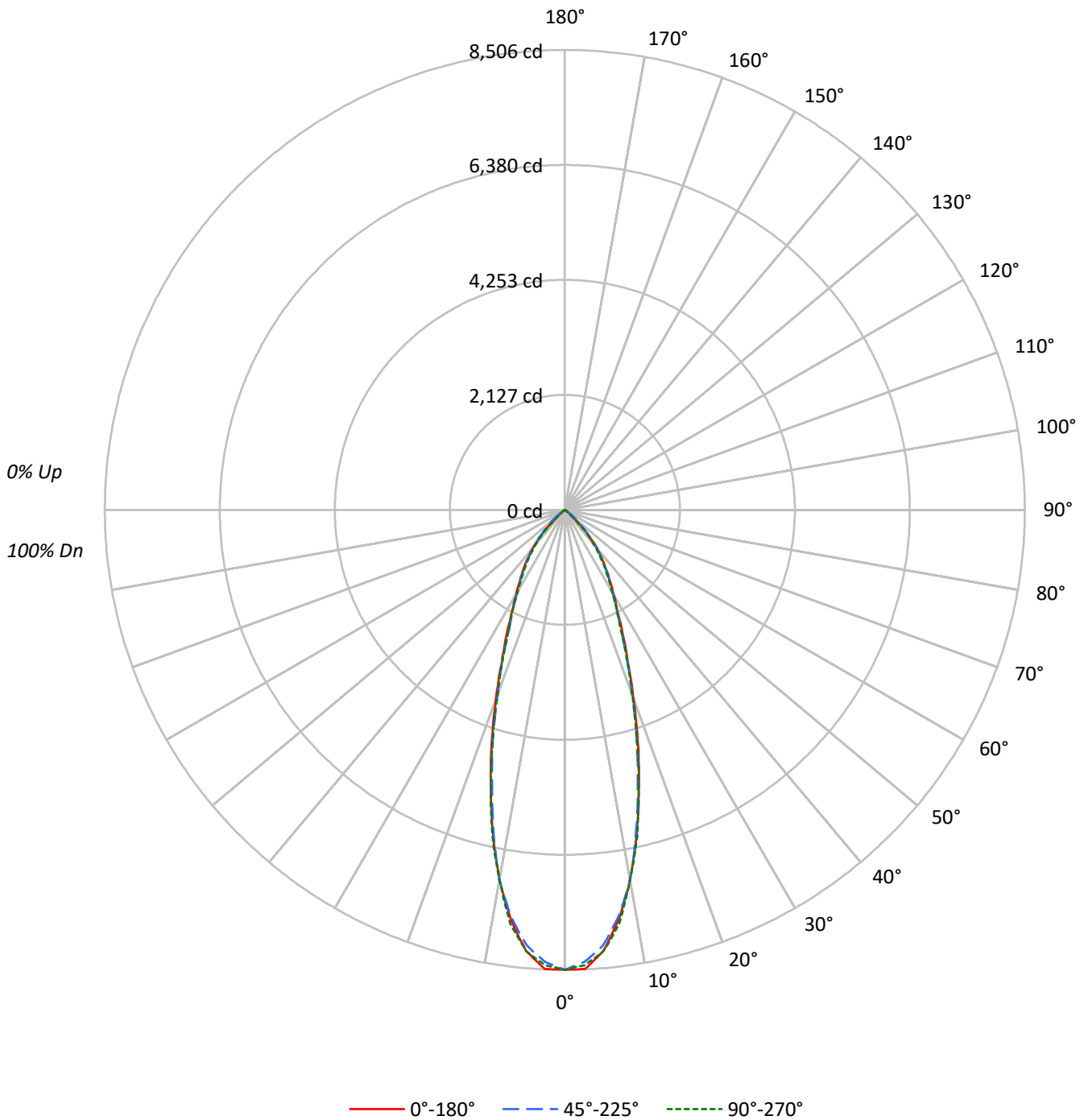
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4595.7 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.62
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 54.6
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: P845467
CATALOG NUMBER: SQ2R-BBN-125D-935-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P845467

CATALOG NUMBER: SQ2R-BBN-125D-935-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	50	30	10	
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88	88	88	
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83	83	83	
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77	77	77	
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73	73	73	
6	90	81	75	71	88	80	75	71	79	74	71	78	73	70	76	73	70	68	68	68	
7	86	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	65	65	65	
8	82	73	67	63	81	72	67	63	71	66	63	70	66	63	69	65	62	61	61	61	
9	78	69	64	60	77	69	63	60	68	63	59	67	62	59	66	62	59	58	58	58	
10	75	66	60	57	74	65	60	57	65	60	56	64	59	56	63	59	56	55	55	55	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	137338	137338	137338
5°	132746	131106	132821
10°	113923	113999	113923
15°	88426	87017	88221
20°	63819	62501	62448
25°	45250	43449	43531
30°	33667	32809	32494
35°	26195	25531	24987
40°	19384	18902	17705
45°	9905	12145	7980
50°	2155	6699	1577
55°	605	2719	476
60°	100	546	48
65°	0	57	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 12145 cd/sqm



TEST NUMBER: P845467

CATALOG NUMBER: SQ2R-BBN-125D-935-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	740.4	16.1
10°-20°	1453.5	31.6
20°-30°	1163.9	25.3
30°-40°	812.1	17.7
40°-50°	373.9	8.1
50°-60°	50.5	1.1
60°-70°	1.5	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	3357.7	73.1
0°-40°	4169.8	90.7
0°-60°	4594.2	100.0
0°-90°	4595.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4595.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8506	8506	8506	8506	8506	
5°	8190	8146	8089	8189	8195	741
15°	5290	5359	5206	5279	5278	1460
25°	2540	2482	2439	2476	2444	1183
35°	1329	1329	1295	1272	1268	831
45°	434	520	532	486	350	347
55°	22	34	97	28	17	25
65°	0	0	2	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P845467

CATALOG NUMBER: SQ2R-BBN-125D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8506.1	8506.1	8506.1	8506.1	8506.1
2.5°	8500.0	8460.2	8368.2	8452.5	8426.4
5°	8190.4	8145.9	8089.2	8188.8	8195.0
7.5°	7643.1	7658.4	7592.5	7721.3	7716.7
10°	6948.7	6959.4	6953.3	6990.1	6948.7
12.5°	6143.9	6194.5	6096.4	6156.2	6188.4
15°	5290.1	5359.1	5205.8	5279.4	5277.8
17.5°	4494.5	4488.4	4407.1	4427.1	4419.4
20°	3714.3	3703.5	3637.6	3626.9	3634.5
22.5°	3045.9	3026.0	3013.7	2983.1	2993.8
25°	2540.0	2481.8	2438.9	2475.7	2443.5
27.5°	2097.0	2098.6	2061.8	2066.4	2078.6
30°	1805.8	1795.0	1759.8	1761.3	1742.9
32.5°	1546.7	1559.0	1513.0	1502.3	1483.9
35°	1329.0	1329.0	1295.3	1272.3	1267.7
37.5°	1119.0	1117.5	1091.4	1060.8	1050.0
40°	919.7	912.1	896.8	856.9	840.0
42.5°	692.9	720.5	705.1	665.3	637.7
45°	433.8	519.7	531.9	485.9	349.5
47.5°	211.5	311.2	377.1	263.7	134.9
50°	85.8	159.4	266.7	115.0	62.8
52.5°	41.4	69.0	180.9	55.2	33.7
55°	21.5	33.7	96.6	27.6	16.9
57.5°	9.2	16.9	41.4	13.8	7.7
60°	3.1	6.1	16.9	4.6	1.5
62.5°	0.0	1.5	6.1	1.5	0.0
65°	0.0	0.0	1.5	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P845467

CATALOG NUMBER: SQ2R-BBN-125D-935-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	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00