

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: P845461

Luminaire Tested: SQ2R-BBN-075D-935-UNV-STD-W-4

Issue Date: 6/14/2024

Test Information

Test Method: LM-79-2019
Report Number: P845461
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-075D-935-UNV-STD-W-4
Description: CONTINUA SQ2 RECESSED, DISCREET OPTICS - BLACK BAFFLE, NARROW 35-DEGREE OPTIC
750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

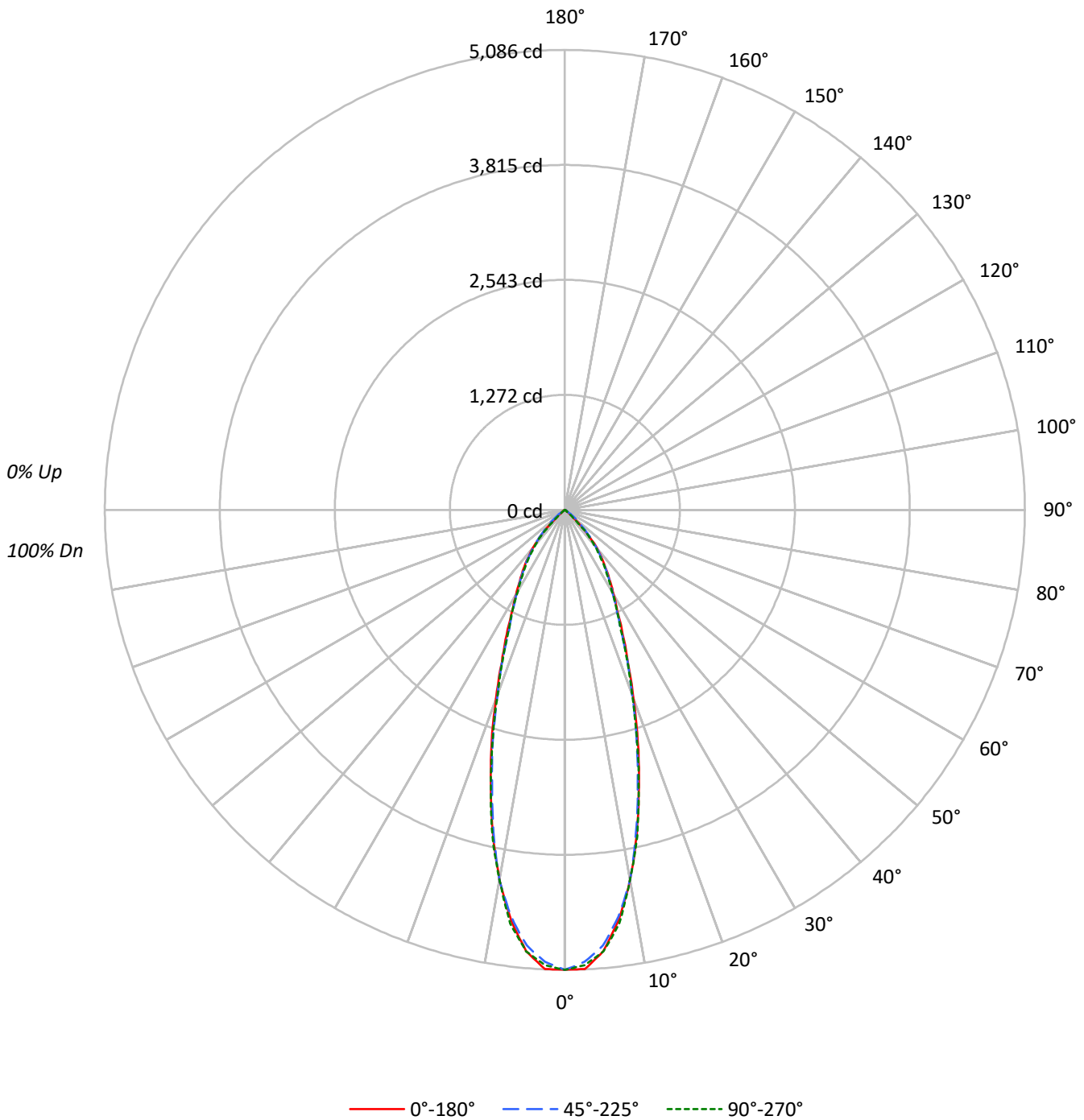
Lumens per Lamp: N/A
Luminaire Lumens: 2748.1 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.62
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.3
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

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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	
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°	82126	82126	82126
5°	79378	78397	79423
10°	68124	68168	68124
15°	52876	52033	52754
20°	38161	37374	37343
25°	27059	25981	26029
30°	20131	19619	19430
35°	15664	15268	14942
40°	11592	11301	10587
45°	5923	7263	4772
50°	1289	4006	944
55°	360	1624	284
60°	58	326	29
65°	0	34	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: 7263 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.7	16.1
10°-20°	869.1	31.6
20°-30°	696.0	25.3
30°-40°	485.6	17.7
40°-50°	223.6	8.1
50°-60°	30.2	1.1
60°-70°	0.9	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°	2007.8	73.1
0°-40°	2493.4	90.7
0°-60°	2747.2	100.0
0°-90°	2748.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2748.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5086	5086	5086	5086	5086	
5°	4898	4871	4837	4897	4900	443
15°	3163	3205	3113	3157	3156	873
25°	1519	1484	1458	1480	1461	707
35°	795	795	775	761	758	497
45°	259	311	318	291	209	208
55°	13	20	58	16	10	15
65°	0	0	1	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5086.5	5086.5	5086.5	5086.5	5086.5
2.5°	5082.8	5059.0	5004.0	5054.4	5038.8
5°	4897.6	4871.1	4837.1	4896.7	4900.4
7.5°	4570.4	4579.6	4540.1	4617.1	4614.4
10°	4155.2	4161.6	4157.9	4179.9	4155.2
12.5°	3673.9	3704.2	3645.5	3681.2	3700.5
15°	3163.3	3204.6	3112.9	3156.9	3156.0
17.5°	2687.6	2683.9	2635.4	2647.3	2642.7
20°	2221.0	2214.6	2175.2	2168.8	2173.4
22.5°	1821.4	1809.5	1802.1	1783.8	1790.2
25°	1518.9	1484.0	1458.4	1480.4	1461.1
27.5°	1254.0	1254.9	1232.9	1235.6	1243.0
30°	1079.8	1073.4	1052.3	1053.2	1042.2
32.5°	924.9	932.2	904.7	898.3	887.3
35°	794.7	794.7	774.6	760.8	758.1
37.5°	669.2	668.2	652.7	634.3	627.9
40°	550.0	545.4	536.2	512.4	502.3
42.5°	414.3	430.8	421.7	397.8	381.3
45°	259.4	310.7	318.1	290.6	209.0
47.5°	126.5	186.1	225.5	157.7	80.7
50°	51.3	95.3	159.5	68.7	37.6
52.5°	24.7	41.2	108.2	33.0	20.2
55°	12.8	20.2	57.7	16.5	10.1
57.5°	5.5	10.1	24.7	8.2	4.6
60°	1.8	3.7	10.1	2.7	0.9
62.5°	0.0	0.9	3.7	0.9	0.0
65°	0.0	0.0	0.9	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



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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	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
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