

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: P845679

Luminaire Tested: SQ2R-WBN-100D-930-UNV-STD-W-4

Issue Date: 6/14/2024

Test Information

Test Method: LM-79-2019
Report Number: P845679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-130-2)
Test Lab: INNOVATION CENTER
Issue Date: 6/14/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2R-WBN-100D-930-UNV-STD-W-4
Description: CONTINUA SQ2 RECESSED, DISCREET OPTICS - WHITE BAFFLE, NARROW 35-DEGREE OPTIC
1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

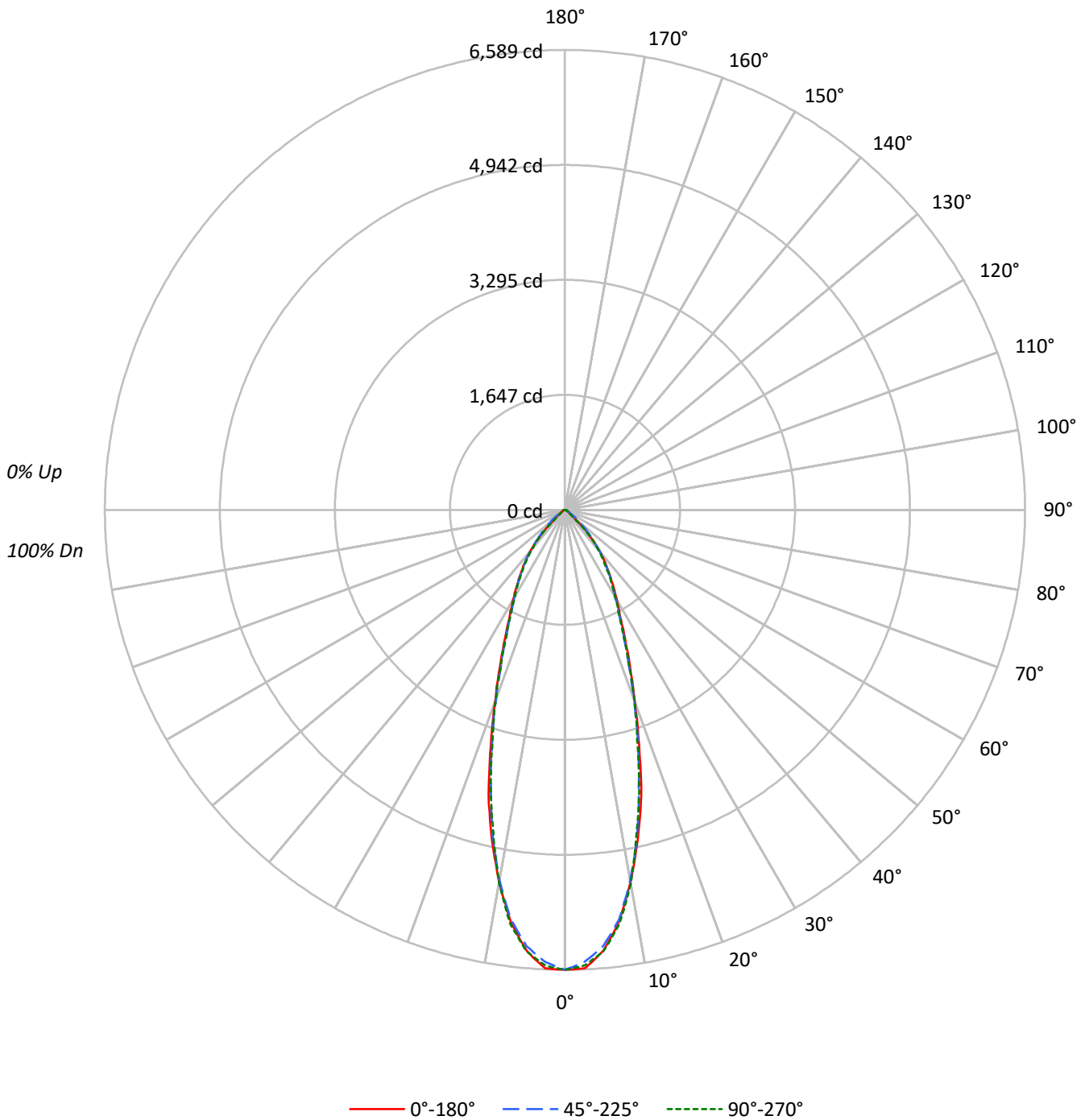
Lumens per Lamp: N/A
Luminaire Lumens: 3823.6 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.59 / 0.63
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.9
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	70	66	63	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	66	61	57	65	60	57	64	60	57	55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	106387	106387	106387
5°	102720	101697	102833
10°	88788	88365	88998
15°	70653	68425	68699
20°	50190	49527	49890
25°	36109	35400	35151
30°	27589	26849	26783
35°	21658	21289	20735
40°	16408	16187	15399
45°	9181	10969	8195
50°	3230	6752	2848
55°	1973	3685	1875
60°	1511	1925	1395
65°	1383	1429	1295
70°	1327	1327	1213
75°	1241	1241	1167
80°	1088	1088	1088
85°	1074	871	871

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 10969 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.6	15.1
10°-20°	1138.6	29.8
20°-30°	936.7	24.5
30°-40°	676.7	17.7
40°-50°	344.0	9.0
50°-60°	88.2	2.3
60°-70°	37.0	1.0
70°-80°	20.7	0.5
80°-90°	6.1	0.2
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°	2650.9	69.3
0°-40°	3327.6	87.0
0°-60°	3759.8	98.3
0°-90°	3823.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3823.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6589	6589	6589	6589	6589	
5°	6338	6328	6275	6366	6345	575
15°	4227	4178	4094	4123	4110	1150
25°	2027	2023	1987	1970	1973	949
35°	1099	1106	1080	1062	1052	689
45°	402	464	480	449	359	319
55°	70	82	131	76	67	68
65°	36	37	37	35	34	36
75°	20	20	20	19	19	21
85°	6	6	5	6	5	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6589.1	6589.1	6589.1	6589.1	6589.1
2.5°	6576.3	6562.3	6483.9	6549.4	6533.0
5°	6337.8	6328.5	6274.7	6365.9	6344.8
7.5°	5946.2	5950.9	5922.9	5994.2	5986.0
10°	5415.6	5436.6	5389.8	5507.9	5428.4
12.5°	4829.9	4807.7	4779.7	4773.8	4738.8
15°	4226.8	4177.7	4093.5	4122.7	4109.9
17.5°	3525.4	3547.6	3465.8	3456.5	3438.9
20°	2921.1	2927.0	2882.5	2905.9	2903.6
22.5°	2434.8	2434.8	2375.2	2412.6	2386.9
25°	2026.9	2023.4	1987.1	1969.6	1973.1
27.5°	1707.8	1692.6	1665.7	1678.6	1670.4
30°	1479.8	1468.2	1440.1	1447.1	1436.6
32.5°	1275.3	1278.8	1249.6	1243.7	1236.7
35°	1098.8	1105.8	1080.1	1062.5	1052.0
37.5°	936.3	943.3	919.9	895.4	886.0
40°	778.5	783.2	768.0	737.6	730.6
42.5°	606.7	630.0	614.8	586.8	569.3
45°	402.1	464.1	480.4	448.9	358.9
47.5°	222.1	314.4	361.2	280.5	180.0
50°	128.6	188.2	268.8	153.1	113.4
52.5°	91.2	114.6	201.1	102.9	85.3
55°	70.1	81.8	130.9	76.0	66.6
57.5°	56.1	63.1	83.0	59.6	53.8
60°	46.8	51.4	59.6	49.1	43.2
62.5°	40.9	43.2	45.6	39.7	38.6
65°	36.2	37.4	37.4	35.1	33.9
67.5°	31.6	32.7	32.7	31.6	30.4
70°	28.1	29.2	28.1	26.9	25.7
72.5°	23.4	24.5	23.4	23.4	22.2
75°	19.9	19.9	19.9	18.7	18.7
77.5°	16.4	16.4	15.2	15.2	14.0
80°	11.7	12.9	11.7	11.7	11.7
82.5°	9.4	9.4	8.2	8.2	8.2
85°	5.8	5.8	4.7	5.8	4.7
87.5°	2.3	2.3	2.3	2.3	2.3
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	7.42	8.48	7.79	8.80	9.11	7.04	8.10	7.41	8.41	8.73
	3H	8.48	9.41	8.86	9.74	10.11	8.05	8.98	8.43	9.31	9.68
	4H	8.92	9.78	9.32	10.13	10.52	8.48	9.34	8.89	9.70	10.08
	6H	9.24	10.03	9.66	10.40	10.80	8.82	9.61	9.24	9.98	10.38
	8H	9.34	10.08	9.78	10.48	10.89	8.93	9.67	9.36	10.06	10.47
	12H	9.41	10.12	9.85	10.50	10.93	8.98	9.69	9.42	10.07	10.50
4H	2H	7.66	8.53	8.07	8.88	9.27	7.34	8.20	7.74	8.55	8.94
	3H	8.97	9.67	9.38	10.08	10.48	8.59	9.29	9.00	9.70	10.10
	4H	9.53	10.15	9.97	10.58	11.03	9.14	9.77	9.58	10.19	10.64
	6H	9.99	10.52	10.46	10.97	11.45	9.61	10.14	10.08	10.59	11.06
	8H	10.14	10.64	10.62	11.09	11.56	9.76	10.26	10.23	10.71	11.18
	12H	10.25	10.69	10.75	11.17	11.65	9.85	10.28	10.34	10.77	11.25
8H	4H	9.67	10.17	10.15	10.62	11.10	9.33	9.82	9.80	10.27	10.75
	6H	10.26	10.66	10.77	11.16	11.64	9.91	10.31	10.42	10.81	11.29
	8H	10.49	10.85	11.02	11.37	11.86	10.14	10.49	10.67	11.01	11.51
	12H	10.69	11.00	11.21	11.50	12.08	10.32	10.63	10.84	11.12	11.70
12H	4H	9.66	10.09	10.15	10.58	11.06	9.32	9.75	9.81	10.24	10.72
	6H	10.27	10.62	10.80	11.14	11.64	9.93	10.29	10.46	10.81	11.30
	8H	10.55	10.86	11.07	11.36	11.94	10.21	10.52	10.73	11.02	11.60