

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: P845676

Luminaire Tested: SQ2R-WBN-075D-930-UNV-STD-W-4

Issue Date: 6/14/2024

Test Information

Test Method: LM-79-2019
Report Number: P845676
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-075D-930-UNV-STD-W-4
Description: CONTINUA SQ2 RECESSED, DISCREET OPTICS - WHITE BAFFLE, NARROW 35-DEGREE OPTIC
750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

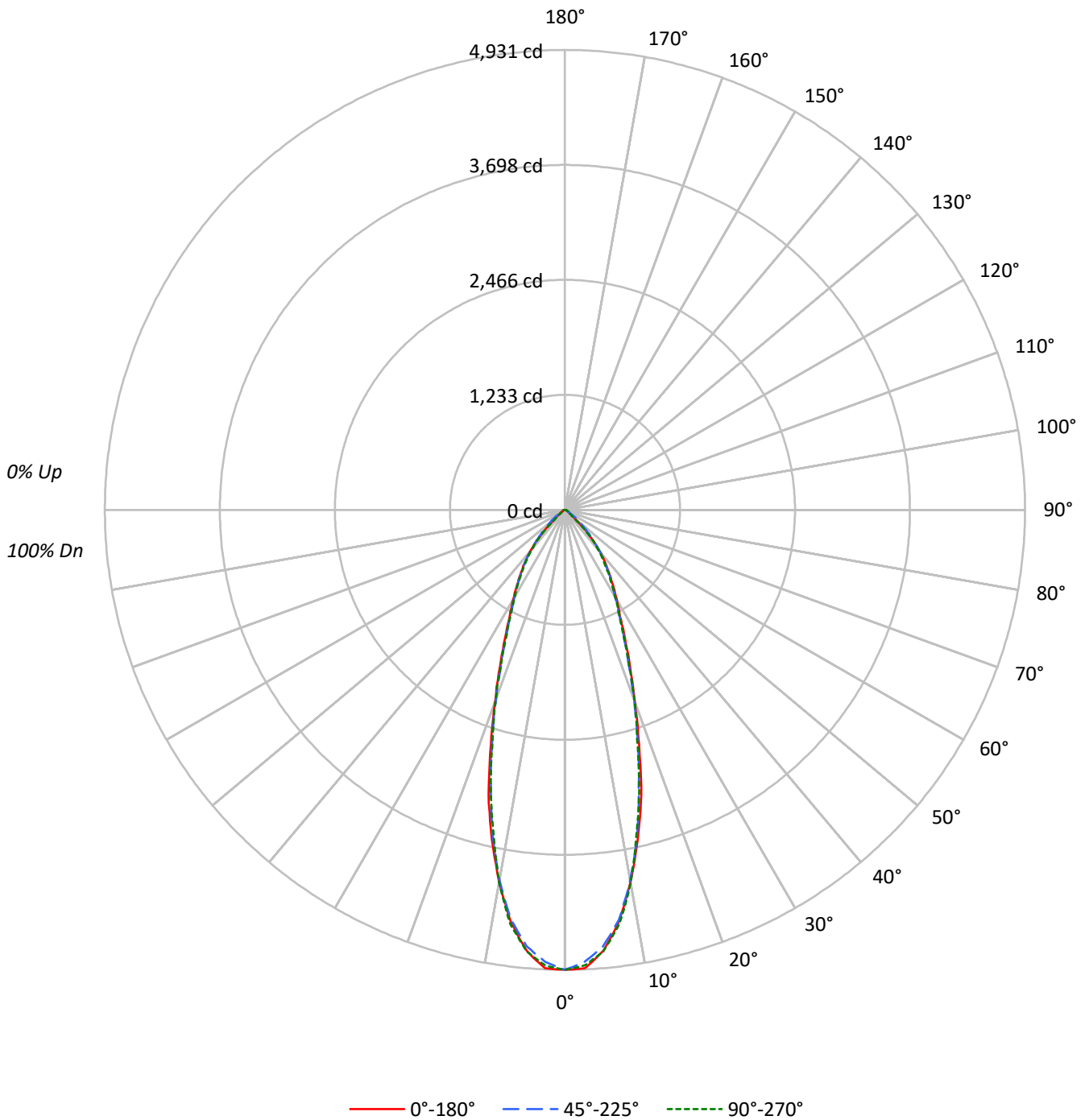
Lumens per Lamp: N/A
Luminaire Lumens: 2861.2 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.59 / 0.63
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	79612	79612	79612
5°	76867	76102	76953
10°	66442	66126	66599
15°	52871	51204	51408
20°	37558	37063	37333
25°	27022	26491	26304
30°	20646	20092	20042
35°	16206	15930	15516
40°	12279	12113	11523
45°	6871	8209	6131
50°	2416	5054	2130
55°	1478	2759	1405
60°	1130	1440	1046
65°	1035	1070	970
70°	991	991	906
75°	930	930	873
80°	809	809	809
85°	815	648	648

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 8209 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.7	15.1
10°-20°	852.0	29.8
20°-30°	700.9	24.5
30°-40°	506.4	17.7
40°-50°	257.4	9.0
50°-60°	66.0	2.3
60°-70°	27.7	1.0
70°-80°	15.5	0.5
80°-90°	4.5	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°	1983.7	69.3
0°-40°	2490.1	87.0
0°-60°	2813.5	98.3
0°-90°	2861.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2861.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4931	4931	4931	4931	4931	
5°	4743	4736	4696	4764	4748	431
15°	3163	3126	3063	3085	3076	861
25°	1517	1514	1487	1474	1476	710
35°	822	828	808	795	787	515
45°	301	347	360	336	268	239
55°	52	61	98	57	50	51
65°	27	28	28	26	25	27
75°	15	15	15	14	14	16
85°	4	4	4	4	4	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4930.8	4930.8	4930.8	4930.8	4930.8
2.5°	4921.2	4910.7	4852.1	4901.1	4888.8
5°	4742.7	4735.7	4695.5	4763.7	4748.0
7.5°	4449.7	4453.2	4432.2	4485.6	4479.4
10°	4052.6	4068.3	4033.3	4121.7	4062.2
12.5°	3614.3	3597.7	3576.7	3572.4	3546.1
15°	3163.0	3126.2	3063.3	3085.1	3075.5
17.5°	2638.2	2654.8	2593.5	2586.5	2573.4
20°	2185.9	2190.3	2157.1	2174.6	2172.8
22.5°	1822.0	1822.0	1777.4	1805.4	1786.2
25°	1516.8	1514.1	1487.0	1473.9	1476.5
27.5°	1278.0	1266.6	1246.5	1256.1	1250.0
30°	1107.4	1098.6	1077.7	1082.9	1075.0
32.5°	954.3	956.9	935.1	930.7	925.5
35°	822.2	827.5	808.2	795.1	787.2
37.5°	700.7	705.9	688.4	670.0	663.0
40°	582.6	586.1	574.7	551.9	546.7
42.5°	454.0	471.5	460.1	439.1	426.0
45°	300.9	347.3	359.5	335.9	268.5
47.5°	166.2	235.3	270.3	209.9	134.7
50°	96.2	140.8	201.2	114.6	84.8
52.5°	68.2	85.7	150.5	77.0	63.9
55°	52.5	61.2	98.0	56.9	49.9
57.5°	42.0	47.2	62.1	44.6	40.2
60°	35.0	38.5	44.6	36.7	32.4
62.5°	30.6	32.4	34.1	29.7	28.9
65°	27.1	28.0	28.0	26.2	25.4
67.5°	23.6	24.5	24.5	23.6	22.7
70°	21.0	21.9	21.0	20.1	19.2
72.5°	17.5	18.4	17.5	17.5	16.6
75°	14.9	14.9	14.9	14.0	14.0
77.5°	12.2	12.2	11.4	11.4	10.5
80°	8.7	9.6	8.7	8.7	8.7
82.5°	7.0	7.0	6.1	6.1	6.1
85°	4.4	4.4	3.5	4.4	3.5
87.5°	1.7	1.7	1.7	1.7	1.7
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	6.42	7.48	6.78	7.79	8.11	6.03	7.09	6.40	7.41	7.72
	3H	7.48	8.41	7.86	8.74	9.11	7.04	7.97	7.42	8.30	8.67
	4H	7.91	8.77	8.32	9.13	9.52	7.47	8.33	7.88	8.69	9.08
	6H	8.23	9.02	8.65	9.39	9.79	7.81	8.60	8.23	8.97	9.37
	8H	8.33	9.08	8.77	9.47	9.88	7.91	8.66	8.35	9.05	9.46
	12H	8.40	9.11	8.84	9.50	9.93	7.97	8.68	8.40	9.06	9.49
4H	2H	6.66	7.52	7.07	7.87	8.26	6.33	7.19	6.74	7.55	7.93
	3H	7.96	8.66	8.38	9.07	9.48	7.58	8.28	7.99	8.69	9.09
	4H	8.53	9.15	8.96	9.57	10.02	8.13	8.76	8.57	9.18	9.63
	6H	8.98	9.52	9.45	9.97	10.44	8.60	9.13	9.07	9.58	10.05
	8H	9.13	9.63	9.61	10.08	10.55	8.74	9.24	9.22	9.69	10.17
	12H	9.25	9.68	9.74	10.17	10.64	8.84	9.27	9.33	9.76	10.24
8H	4H	8.67	9.17	9.14	9.62	10.09	8.32	8.81	8.79	9.26	9.74
	6H	9.25	9.65	9.76	10.15	10.63	8.89	9.29	9.40	9.79	10.28
	8H	9.48	9.83	10.01	10.36	10.85	9.12	9.48	9.65	10.00	10.49
	12H	9.68	9.99	10.20	10.49	11.07	9.30	9.61	9.82	10.11	10.69
12H	4H	8.65	9.08	9.14	9.57	10.05	8.31	8.74	8.80	9.23	9.71
	6H	9.26	9.61	9.79	10.13	10.63	8.92	9.27	9.45	9.79	10.29
	8H	9.54	9.85	10.06	10.35	10.93	9.20	9.51	9.72	10.00	10.58