

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: P845682

Luminaire Tested: SQ2R-WBN-125D-930-UNV-STD-W-4

Issue Date: 6/14/2024

Test Information

Test Method: LM-79-2019
Report Number: P845682
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-125D-930-UNV-STD-W-4
Description: CONTINUA SQ2 RECESSED, DISCREET OPTICS - WHITE BAFFLE, NARROW 35-DEGREE OPTIC
1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

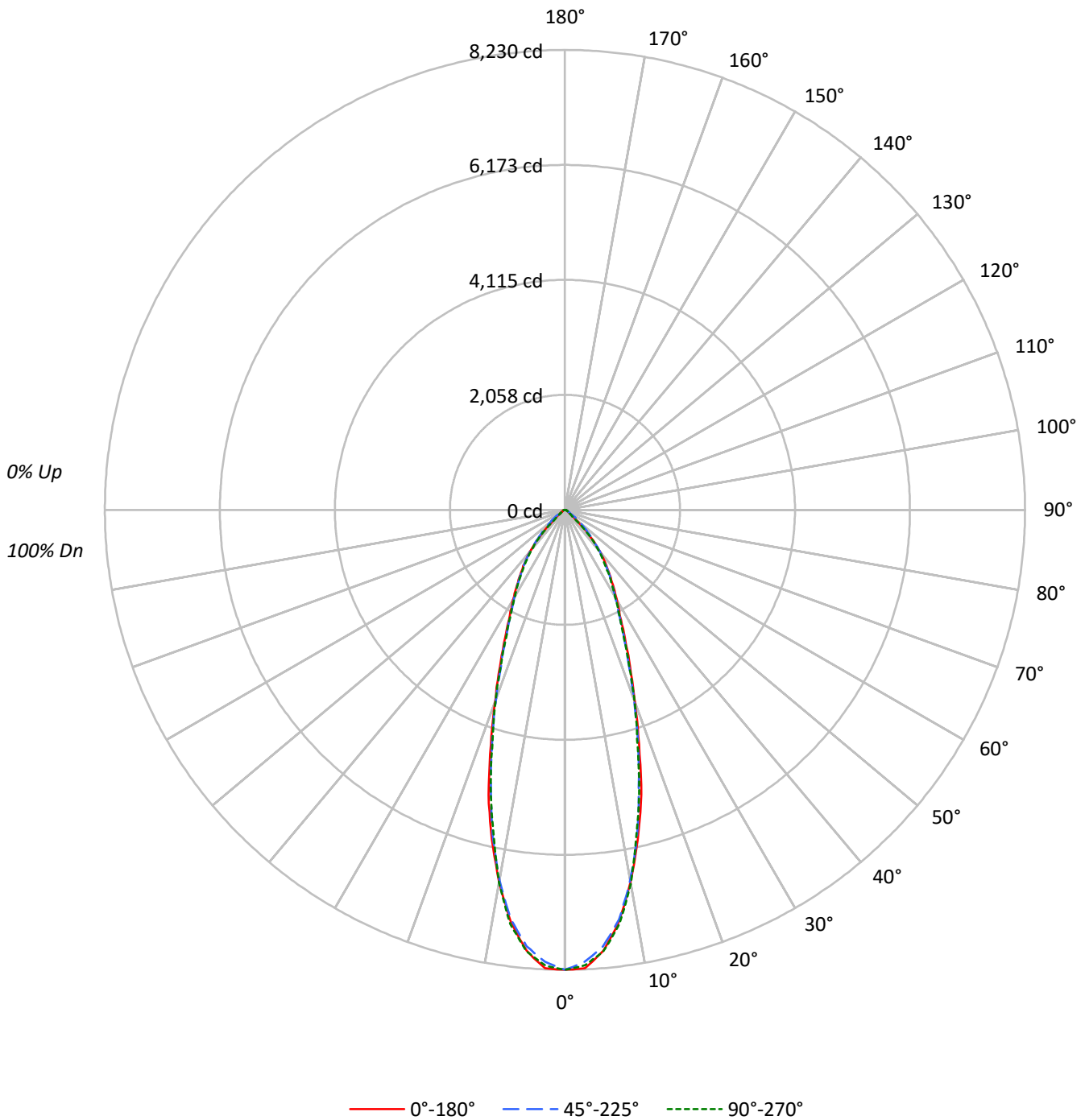
Lumens per Lamp: N/A
Luminaire Lumens: 4775.7 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.59 / 0.63
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	132882	132882	132882
5°	128302	127023	128443
10°	110898	110372	111162
15°	88247	85464	85807
20°	62690	61862	62314
25°	45102	44217	43905
30°	34461	33534	33452
35°	27051	26589	25900
40°	20495	20217	19233
45°	11467	13702	10234
50°	4034	8435	3557
55°	2466	4602	2342
60°	1886	2406	1744
65°	1731	1784	1616
70°	1652	1652	1515
75°	1547	1547	1460
80°	1358	1358	1358
85°	1352	1074	1074

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13702 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.9	15.1
10°-20°	1422.2	29.8
20°-30°	1170.0	24.5
30°-40°	845.2	17.7
40°-50°	429.7	9.0
50°-60°	110.2	2.3
60°-70°	46.3	1.0
70°-80°	25.8	0.5
80°-90°	7.6	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°	3311.0	69.3
0°-40°	4156.3	87.0
0°-60°	4696.1	98.3
0°-90°	4775.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4775.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8230	8230	8230	8230	8230	
5°	7916	7904	7837	7951	7925	719
15°	5279	5218	5113	5149	5133	1437
25°	2532	2527	2482	2460	2464	1185
35°	1372	1381	1349	1327	1314	860
45°	502	580	600	561	448	398
55°	88	102	164	95	83	85
65°	45	47	47	44	42	45
75°	25	25	25	23	23	26
85°	7	7	6	7	6	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8230.1	8230.1	8230.1	8230.1	8230.1
2.5°	8214.0	8196.5	8098.7	8180.4	8160.0
5°	7916.2	7904.5	7837.3	7951.2	7924.9
7.5°	7427.1	7432.9	7397.9	7486.9	7476.7
10°	6764.2	6790.5	6732.1	6879.6	6780.3
12.5°	6032.7	6005.0	5970.0	5962.7	5918.9
15°	5279.4	5218.1	5112.9	5149.4	5133.4
17.5°	4403.4	4431.1	4328.9	4317.2	4295.3
20°	3648.6	3655.9	3600.4	3629.6	3626.7
22.5°	3041.2	3041.2	2966.7	3013.5	2981.3
25°	2531.7	2527.3	2482.0	2460.1	2464.5
27.5°	2133.1	2114.1	2080.5	2096.6	2086.4
30°	1848.4	1833.8	1798.7	1807.5	1794.3
32.5°	1592.9	1597.2	1560.7	1553.4	1544.7
35°	1372.4	1381.2	1349.0	1327.1	1314.0
37.5°	1169.5	1178.2	1149.0	1118.4	1106.7
40°	972.4	978.2	959.2	921.3	912.5
42.5°	757.7	786.9	768.0	732.9	711.0
45°	502.2	579.6	600.1	560.6	448.2
47.5°	277.4	392.7	451.1	350.4	224.8
50°	160.6	235.1	335.8	191.3	141.6
52.5°	113.9	143.1	251.1	128.5	106.6
55°	87.6	102.2	163.5	94.9	83.2
57.5°	70.1	78.8	103.7	74.5	67.2
60°	58.4	64.2	74.5	61.3	54.0
62.5°	51.1	54.0	56.9	49.6	48.2
65°	45.3	46.7	46.7	43.8	42.3
67.5°	39.4	40.9	40.9	39.4	38.0
70°	35.0	36.5	35.0	33.6	32.1
72.5°	29.2	30.7	29.2	29.2	27.7
75°	24.8	24.8	24.8	23.4	23.4
77.5°	20.4	20.4	19.0	19.0	17.5
80°	14.6	16.1	14.6	14.6	14.6
82.5°	11.7	11.7	10.2	10.2	10.2
85°	7.3	7.3	5.8	7.3	5.8
87.5°	2.9	2.9	2.9	2.9	2.9
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	8.20	9.26	8.56	9.57	9.88	7.81	8.87	8.18	9.18	9.50
	3H	9.25	10.18	9.63	10.52	10.88	8.82	9.75	9.20	10.08	10.45
	4H	9.69	10.55	10.09	10.90	11.29	9.25	10.12	9.66	10.47	10.86
	6H	10.01	10.80	10.43	11.17	11.57	9.59	10.38	10.01	10.76	11.15
	8H	10.11	10.85	10.55	11.25	11.66	9.70	10.44	10.13	10.83	11.24
	12H	10.18	10.89	10.62	11.27	11.71	9.75	10.46	10.19	10.84	11.27
4H	2H	8.44	9.30	8.84	9.65	10.04	8.11	8.97	8.51	9.32	9.71
	3H	9.74	10.44	10.16	10.85	11.25	9.36	10.06	9.77	10.47	10.87
	4H	10.30	10.92	10.74	11.35	11.79	9.92	10.54	10.35	10.96	11.41
	6H	10.76	11.29	11.23	11.74	12.22	10.38	10.91	10.85	11.36	11.84
	8H	10.91	11.41	11.39	11.86	12.33	10.53	11.03	11.01	11.48	11.95
	12H	11.03	11.46	11.52	11.94	12.42	10.62	11.06	11.11	11.54	12.02
8H	4H	10.44	10.94	10.92	11.39	11.87	10.10	10.59	10.57	11.04	11.52
	6H	11.03	11.42	11.54	11.93	12.41	10.68	11.08	11.19	11.58	12.06
	8H	11.26	11.61	11.79	12.14	12.63	10.91	11.26	11.44	11.78	12.28
	12H	11.46	11.77	11.98	12.27	12.85	11.09	11.40	11.61	11.89	12.47
12H	4H	10.43	10.86	10.92	11.35	11.82	10.09	10.52	10.58	11.01	11.49
	6H	11.04	11.39	11.57	11.91	12.41	10.70	11.06	11.23	11.58	12.07
	8H	11.32	11.63	11.84	12.13	12.71	10.98	11.29	11.50	11.79	12.37