

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: P521711

Luminaire Tested: SQ4-WB-025U-050D-92765-1D-UNV-STD-W-4_6500K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521711
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-WB-025U-050D-92765-1D-UNV-STD-W-4_6500K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3941.6 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

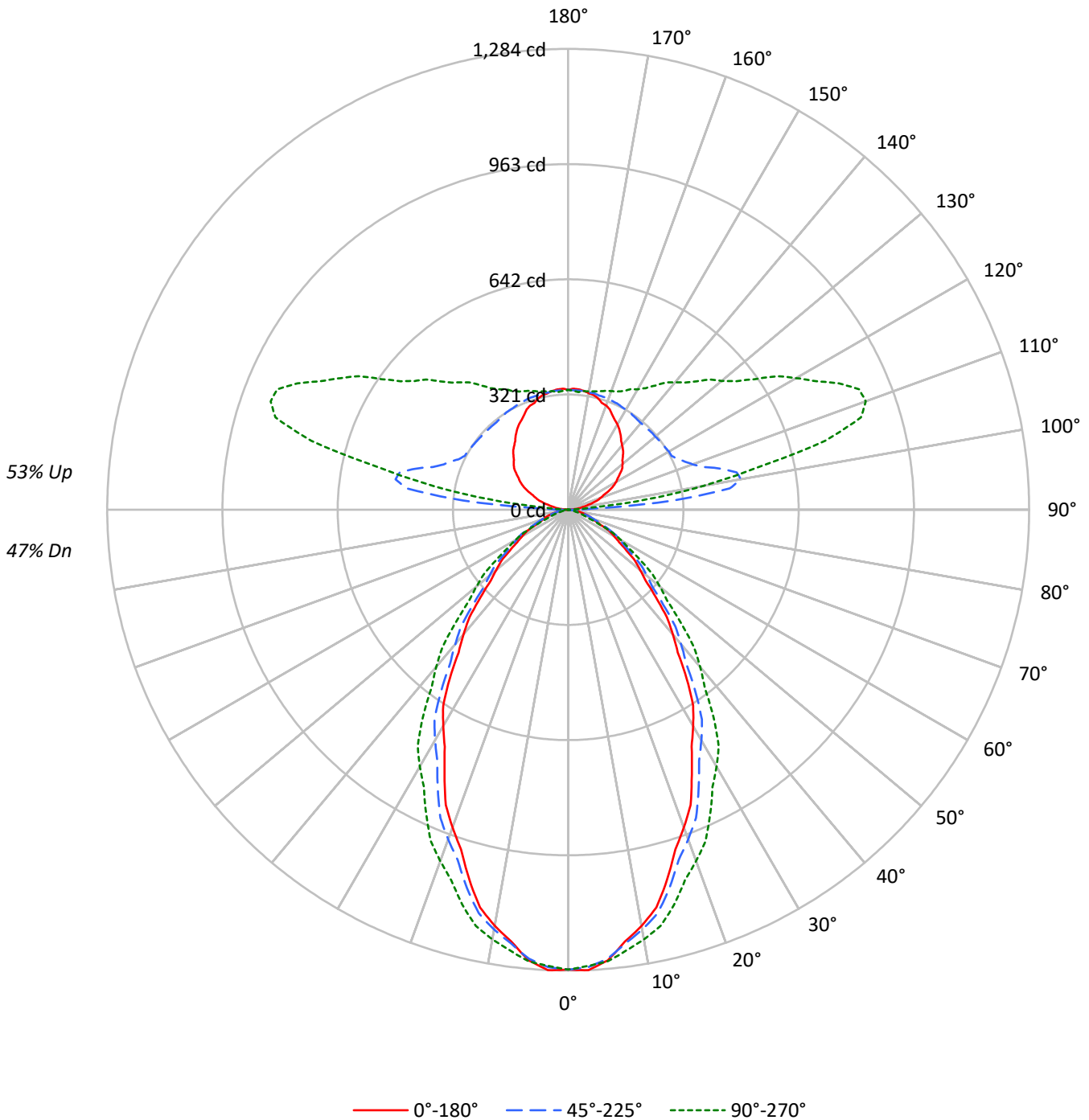
Input Watts (W): 34.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47				47
1	98	94	91	88	90	87	84	81	73	71	69	61	59	58	49	48	47	42				42
2	90	84	78	74	83	77	73	69	66	62	59	55	52	50	45	43	42	37				37
3	83	75	68	63	76	69	63	59	59	55	51	49	46	44	41	39	37	33				33
4	77	67	60	54	71	62	56	51	53	48	45	45	41	39	37	35	33	29				29
5	71	60	53	47	65	56	49	45	48	43	39	41	37	34	34	31	29	26				26
6	66	54	47	42	61	51	44	39	44	39	35	37	34	31	31	29	26	24				24
7	61	50	42	37	56	46	40	35	40	35	31	34	31	28	29	26	24	21				21
8	57	45	38	33	53	42	36	31	37	32	28	32	28	25	27	24	22	20				20
9	53	42	35	30	49	39	33	28	34	29	26	29	26	23	25	22	20	18				18
10	50	38	32	27	46	36	30	26	32	27	23	27	24	21	23	21	19	17				17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11822	11822	11822
5°	11674	11632	11700
10°	11030	11130	11387
15°	10182	10418	10885
20°	9246	9593	10229
25°	8293	8746	9529
30°	7415	7901	8804
35°	6484	6953	7947
40°	5457	5891	6880
45°	4504	4893	5744
50°	3761	4099	4785
55°	3193	3518	3952
60°	2729	3050	3154
65°	2172	2565	2037
70°	1926	2002	1244
75°	1782	1622	763
80°	1642	1493	659
85°	1493	1366	540

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5744 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	3.0
10°-20°	305.7	7.8
20°-30°	395.9	10.0
30°-40°	387.7	9.8
40°-50°	296.8	7.5
50°-60°	197.8	5.0
60°-70°	107.9	2.7
70°-80°	45.0	1.1
80°-90°	12.7	0.3
90°-100°	152.2	3.9
100°-110°	433.0	11.0
110°-120°	414.9	10.5
120°-130°	328.4	8.3
130°-140°	263.6	6.7
140°-150°	206.3	5.2
150°-160°	151.0	3.8
160°-170°	93.5	2.4
170°-180°	31.7	0.8
0°-30°	819.2	20.8
0°-40°	1206.9	30.6
0°-60°	1701.4	43.2
0°-90°	1867.1	47.4
90°-120°	1000.1	25.4
90°-150°	1798.3	45.6
90°-180°	2075.0	52.6
0°-180°	3941.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1260	1248	1256	1259	1263	117
15°	1066	1062	1091	1120	1140	298
25°	815	817	859	896	936	375
35°	576	578	617	659	706	358
45°	345	352	375	403	440	269
55°	198	207	219	227	246	180
65°	100	108	118	103	93	103
75°	50	50	46	31	21	53
85°	14	14	13	8	5	15
90°	0	0	0	0	0	1
95°	16	66	295	102	63	19
105°	67	102	441	779	741	71
115°	125	151	335	709	832	123
125°	176	196	319	530	634	158
135°	216	234	316	448	506	167
145°	255	268	318	388	422	159
155°	291	298	326	350	364	134
165°	321	322	330	337	342	90
175°	336	335	333	331	329	32
180°	334	334	334	334	334	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1281.3	1281.3	1281.3	1281.3	1281.3
2.5°	1284.4	1273.0	1275.9	1275.8	1272.3
5°	1260.5	1247.8	1256.0	1258.9	1263.3
7.5°	1213.7	1204.1	1219.0	1230.0	1238.9
10°	1177.3	1169.0	1188.0	1204.0	1215.5
12.5°	1135.0	1128.1	1151.5	1173.0	1188.1
15°	1066.0	1062.1	1090.7	1120.4	1139.6
17.5°	992.1	990.2	1023.0	1057.6	1082.3
20°	941.7	941.2	977.1	1013.2	1041.8
22.5°	890.9	892.1	929.9	967.4	999.9
25°	814.6	816.8	859.1	896.5	936.1
27.5°	744.1	745.1	788.8	828.3	870.5
30°	696.0	698.8	741.6	782.5	826.4
32.5°	647.9	651.1	693.0	735.3	780.1
35°	575.7	578.5	617.3	658.8	705.6
37.5°	501.3	505.0	539.5	578.8	624.7
40°	453.1	458.6	489.1	526.1	571.2
42.5°	406.8	413.6	441.9	477.0	517.7
45°	345.2	351.8	375.0	403.4	440.2
47.5°	292.1	299.7	317.5	342.0	373.4
50°	262.0	269.1	285.6	303.7	333.4
52.5°	235.5	242.6	257.3	271.2	296.5
55°	198.5	206.7	218.7	227.0	245.7
57.5°	168.1	176.0	185.5	189.3	200.6
60°	147.9	156.7	165.3	164.9	170.9
62.5°	129.4	136.9	145.5	139.5	139.9
65°	99.5	107.8	117.5	102.7	93.3
67.5°	80.4	82.2	92.2	71.6	60.5
70°	71.4	71.4	74.2	55.4	46.1
72.5°	62.9	62.9	60.3	45.1	35.3
75°	50.0	50.0	45.5	31.3	21.4
77.5°	38.6	38.1	34.9	23.3	15.5
80°	30.9	30.9	28.1	18.4	12.4
82.5°	24.2	24.2	21.8	14.4	9.2
85°	14.1	14.1	12.9	8.4	5.1
87.5°	4.9	4.9	4.5	2.7	2.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.1	26.9	62.5	18.2	13.7
95°	16.5	65.6	294.6	102.0	62.9
97.5°	30.3	76.8	453.7	324.7	222.5
100°	40.0	83.5	488.3	494.6	381.0
102.5°	50.7	90.6	480.6	633.0	533.8
105°	67.3	102.1	441.3	779.4	740.9
107.5°	84.2	115.4	395.3	820.7	855.0
110°	95.9	125.1	368.9	804.9	881.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.0	134.7	351.1	767.6	877.3
115°	125.1	151.2	334.6	708.8	832.4
117.5°	141.0	165.4	324.8	644.6	775.5
120°	153.7	174.1	323.8	607.9	733.3
122.5°	163.8	184.3	321.3	575.7	692.2
125°	176.5	195.8	319.4	530.0	633.6
127.5°	190.3	208.4	318.3	502.6	588.1
130°	197.5	215.5	316.8	483.6	558.1
132.5°	205.1	222.6	316.8	468.7	537.3
135°	215.9	233.9	315.6	447.7	506.0
137.5°	226.0	243.5	315.4	429.8	480.3
140°	233.7	251.7	314.9	415.1	463.5
142.5°	242.3	257.3	316.4	403.3	446.7
145°	254.6	267.6	318.1	387.5	422.2
147.5°	265.1	277.8	320.9	371.5	401.5
150°	274.3	283.0	321.9	366.2	387.3
152.5°	281.4	290.6	322.9	359.0	378.7
155°	290.8	297.6	325.7	350.2	364.4
157.5°	302.5	306.6	326.3	346.1	356.3
160°	308.6	311.7	328.9	343.1	351.7
162.5°	312.1	315.7	329.4	340.5	347.2
165°	321.3	322.5	329.5	336.6	341.6
167.5°	327.5	326.4	332.4	335.7	337.6
170°	329.5	328.9	331.4	332.1	334.6
172.5°	334.1	332.0	333.0	331.1	333.1
175°	336.5	334.6	333.3	331.4	328.9
177.5°	337.5	334.5	333.0	330.9	331.4
180°	334.0	334.0	334.0	334.0	334.0

(END OF REPORT)