

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: P521341

Luminaire Tested: SQ4-F-025U-050D-92765-1D-UNV-STD-W-4_3000K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521341
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2101-105-36)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-F-025U-050D-92765-1D-UNV-STD-W-4_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3927.8 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

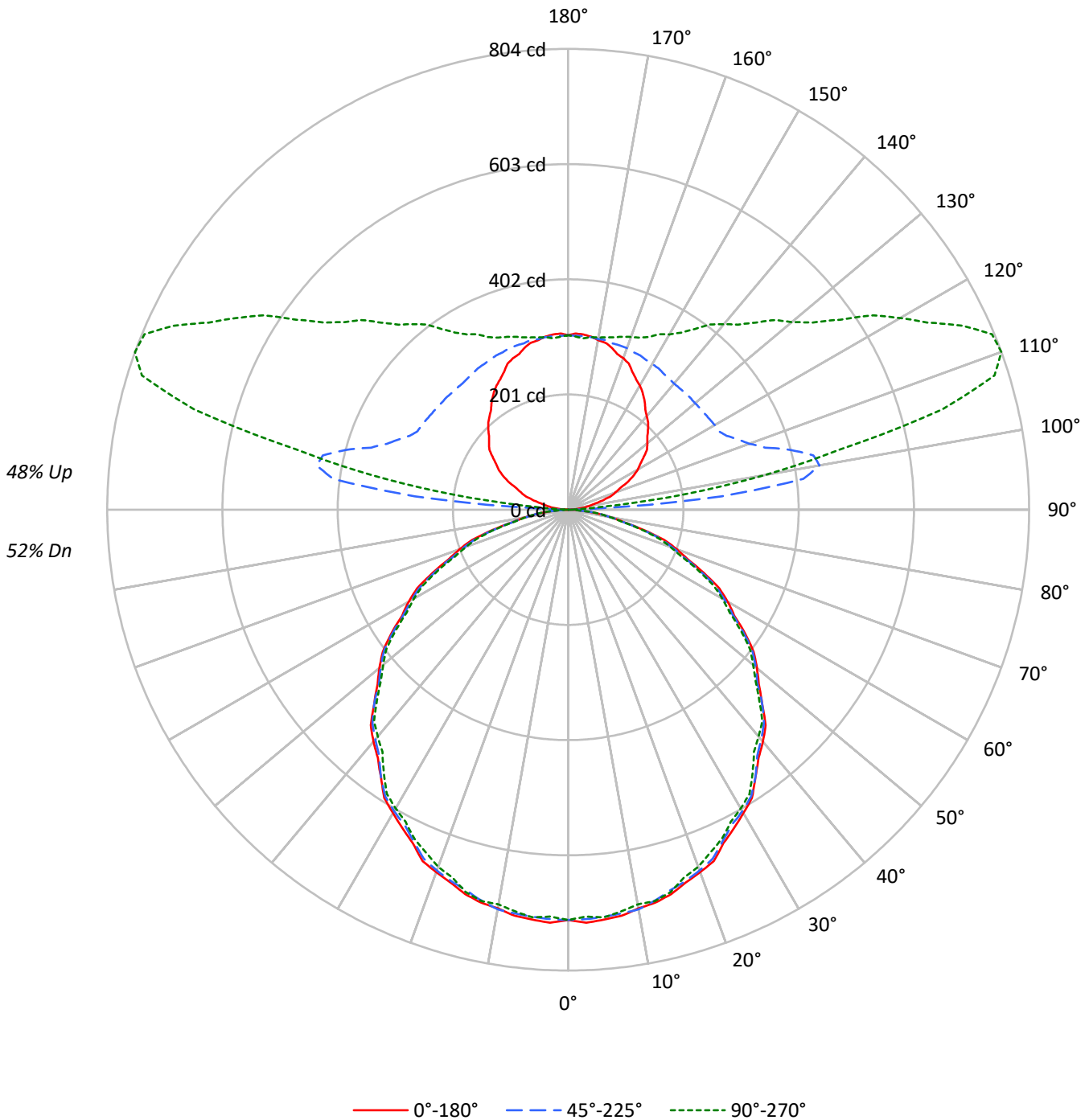
Input Watts (W): 34.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	108	108	108	108	99	99	99	99	84	84	84	71	71	71	58	58	58	52				
1	98	94	90	86	91	87	83	80	74	71	69	62	60	58	51	50	49	43				
2	89	82	75	70	82	76	70	66	64	60	57	54	51	49	45	43	41	36				
3	81	72	64	58	75	66	60	55	57	52	48	48	44	41	39	37	34	30				
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	35	32	29	26				
5	68	56	48	42	63	52	45	39	45	39	35	38	34	30	31	28	26	22				
6	63	50	42	36	58	47	40	34	40	35	30	34	30	26	28	25	22	20				
7	58	45	37	32	53	42	35	30	37	31	27	31	27	23	26	22	20	17				
8	54	41	33	28	50	38	31	26	33	28	24	28	24	21	24	20	18	15				
9	50	38	30	25	46	35	28	24	30	25	21	26	22	18	22	18	16	14				
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6604	6604	6604
5°	6648	6602	6612
10°	6615	6633	6550
15°	6632	6567	6594
20°	6607	6577	6511
25°	6531	6492	6452
30°	6512	6471	6409
35°	6412	6412	6313
40°	6363	6304	6222
45°	6243	6243	6155
50°	6168	6126	6041
55°	6064	6000	5907
60°	5929	5820	5729
65°	5691	5565	5458
70°	5427	5241	5112
75°	4837	4698	4631
80°	3995	3942	3889
85°	2890	3208	3208

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6243 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	1.7
10°-20°	194.2	4.9
20°-30°	293.4	7.5
30°-40°	353.3	9.0
40°-50°	366.3	9.3
50°-60°	332.1	8.5
60°-70°	252.5	6.4
70°-80°	140.6	3.6
80°-90°	36.2	0.9
90°-100°	138.8	3.5
100°-110°	394.8	10.1
110°-120°	378.2	9.6
120°-130°	299.4	7.6
130°-140°	240.3	6.1
140°-150°	188.1	4.8
150°-160°	137.6	3.5
160°-170°	85.3	2.2
170°-180°	28.9	0.7
0°-30°	555.3	14.1
0°-40°	908.6	23.1
0°-60°	1607.1	40.9
0°-90°	2036.4	51.8
90°-120°	911.8	23.2
90°-150°	1639.5	41.7
90°-180°	1891.0	48.1
0°-180°	3927.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	718	709	713	714	714	68
15°	694	688	688	688	690	196
25°	642	637	638	634	634	297
35°	569	564	569	562	560	357
45°	478	476	478	470	472	370
55°	377	376	373	369	367	336
65°	261	260	255	252	250	258
75°	136	134	132	130	130	144
85°	27	29	30	31	30	33
90°	0	0	0	0	0	2
95°	15	60	269	93	57	17
105°	61	93	402	711	676	65
115°	114	138	305	646	759	112
125°	161	178	291	483	578	144
135°	197	213	288	408	461	152
145°	232	244	290	353	385	145
155°	265	271	297	319	332	123
165°	293	294	300	307	311	82
175°	307	305	304	302	300	29
180°	304	304	304	304	304	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	715.8	715.8	715.8	715.8	715.8
2.5°	721.3	713.7	715.0	715.7	710.4
5°	717.8	709.2	712.9	713.9	713.9
7.5°	714.6	708.0	710.4	707.4	707.0
10°	706.1	703.2	708.0	701.1	699.2
12.5°	702.1	697.8	698.6	697.3	699.2
15°	694.3	687.7	687.5	687.6	690.4
17.5°	682.2	673.6	679.3	673.2	672.5
20°	672.9	664.3	669.9	663.1	663.1
22.5°	663.5	653.4	659.0	649.8	647.5
25°	641.6	636.8	637.7	633.8	633.8
27.5°	626.2	615.7	619.1	613.7	614.1
30°	611.3	600.8	607.4	599.7	601.6
32.5°	596.5	589.8	593.4	584.8	588.3
35°	569.3	563.6	569.3	562.5	560.5
37.5°	545.5	539.6	541.4	537.0	532.2
40°	528.3	521.6	523.4	517.6	516.6
42.5°	509.6	505.2	505.5	500.4	501.0
45°	478.5	475.7	478.5	469.8	471.7
47.5°	450.8	447.3	447.1	441.3	443.6
50°	429.7	427.8	426.8	420.9	420.9
52.5°	407.8	405.9	404.9	400.6	399.8
55°	377.0	376.0	373.0	369.1	367.2
57.5°	343.2	341.3	339.6	335.5	334.0
60°	321.3	319.4	315.4	310.5	310.5
62.5°	297.1	295.2	290.4	288.6	285.5
65°	260.7	259.8	254.9	251.9	250.0
67.5°	224.6	221.6	219.3	215.6	213.7
70°	201.2	197.4	194.3	191.4	189.5
72.5°	175.4	172.3	169.3	167.9	165.2
75°	135.7	133.8	131.8	129.9	129.9
77.5°	98.6	98.1	96.1	96.1	95.1
80°	75.2	76.2	74.2	74.2	73.2
82.5°	54.1	55.1	54.7	55.4	54.5
85°	27.3	29.3	30.3	31.2	30.3
87.5°	7.8	10.1	11.7	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.6	24.6	57.0	16.6	12.5
95°	15.1	59.8	268.6	93.0	57.3
97.5°	27.7	70.0	413.7	296.0	202.8
100°	36.5	76.1	445.1	450.9	347.3
102.5°	46.2	82.6	438.2	577.2	486.7
105°	61.4	93.1	402.3	710.6	675.5
107.5°	76.8	105.2	360.4	748.3	779.5
110°	87.4	114.0	336.3	733.9	804.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	97.6	122.8	320.1	699.8	799.9
115°	114.0	137.8	305.1	646.3	758.9
117.5°	128.5	150.8	296.1	587.7	707.0
120°	140.1	158.8	295.2	554.3	668.6
122.5°	149.3	168.0	292.9	524.9	631.1
125°	160.9	178.5	291.2	483.2	577.7
127.5°	173.5	190.0	290.2	458.3	536.1
130°	180.0	196.4	288.9	440.9	508.8
132.5°	187.0	202.9	288.9	427.3	489.8
135°	196.8	213.2	287.7	408.2	461.4
137.5°	206.1	222.0	287.6	391.9	437.9
140°	213.0	229.4	287.1	378.4	422.6
142.5°	220.9	234.6	288.5	367.7	407.3
145°	232.1	244.0	290.0	353.2	384.9
147.5°	241.7	253.3	292.6	338.7	366.1
150°	250.1	258.0	293.5	333.9	353.1
152.5°	256.6	264.9	294.4	327.3	345.2
155°	265.1	271.3	297.0	319.3	332.3
157.5°	275.8	279.5	297.5	315.6	324.9
160°	281.3	284.2	299.9	312.8	320.7
162.5°	284.6	287.9	300.3	310.4	316.5
165°	292.9	294.0	300.4	306.9	311.4
167.5°	298.6	297.6	303.1	306.0	307.8
170°	300.4	299.9	302.2	302.8	305.1
172.5°	304.6	302.7	303.6	301.9	303.7
175°	306.8	305.1	303.9	302.1	299.9
177.5°	307.7	305.0	303.6	301.7	302.2
180°	304.5	304.5	304.5	304.5	304.5

(END OF REPORT)