

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: P521342

Luminaire Tested: SQ4-F-025U-050D-92765-1D-UNV-STD-W-4_3500K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521342
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_3500K
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4022.0 lumens
Efficiency: N/A
Efficacy: 115.9 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

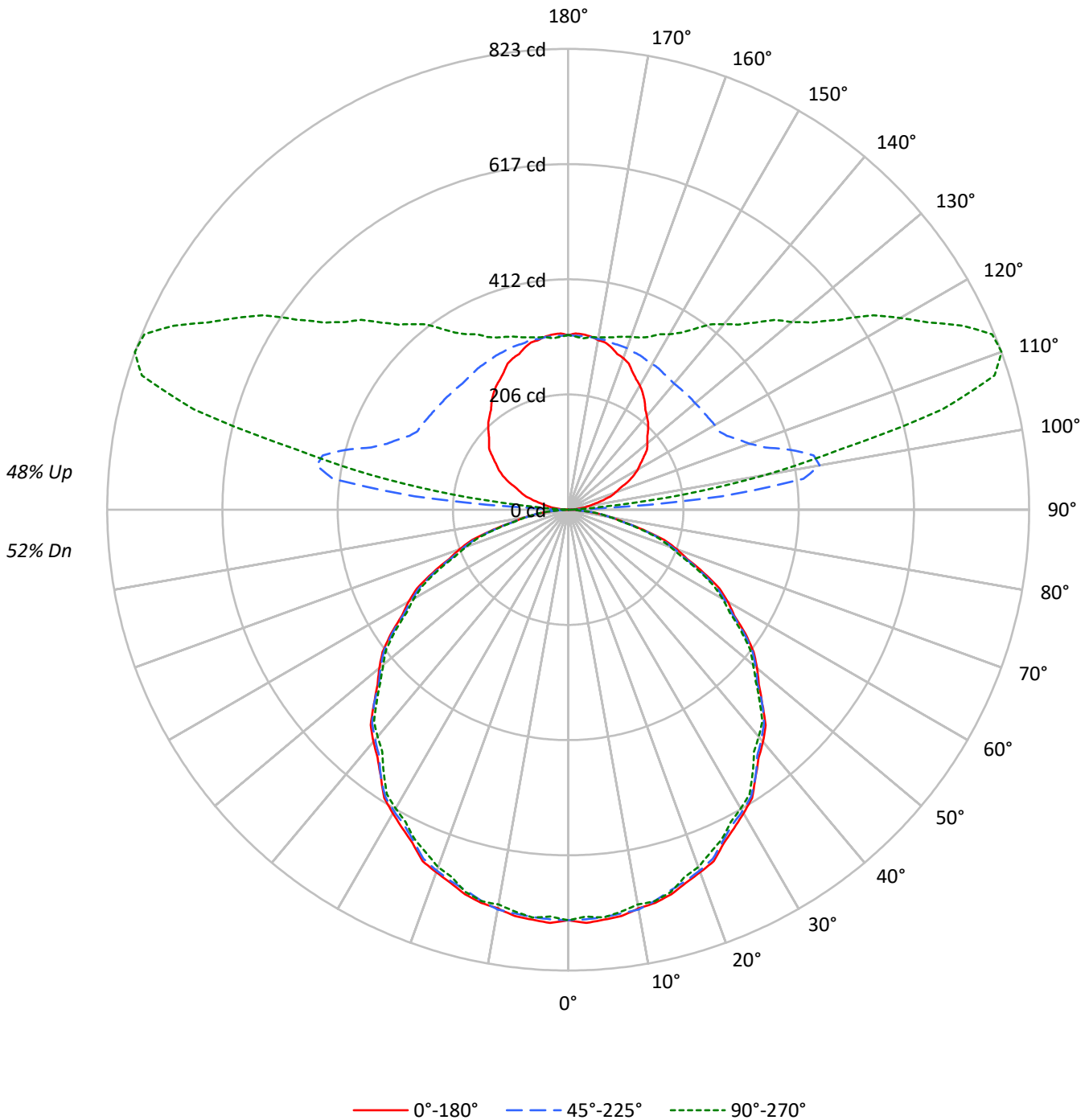
Input Watts (W): 34.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	6763	6763	6763
5°	6807	6761	6770
10°	6773	6792	6708
15°	6791	6724	6753
20°	6765	6735	6667
25°	6688	6648	6607
30°	6669	6626	6563
35°	6566	6566	6465
40°	6516	6456	6371
45°	6393	6393	6302
50°	6316	6272	6186
55°	6209	6145	6048
60°	6071	5960	5868
65°	5829	5698	5589
70°	5557	5368	5233
75°	4955	4812	4741
80°	4091	4038	3985
85°	2964	3282	3282

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6393 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.7
10°-20°	198.8	4.9
20°-30°	300.4	7.5
30°-40°	361.8	9.0
40°-50°	375.1	9.3
50°-60°	340.1	8.5
60°-70°	258.5	6.4
70°-80°	144.0	3.6
80°-90°	37.1	0.9
90°-100°	142.1	3.5
100°-110°	404.2	10.1
110°-120°	387.3	9.6
120°-130°	306.6	7.6
130°-140°	246.0	6.1
140°-150°	192.6	4.8
150°-160°	140.9	3.5
160°-170°	87.3	2.2
170°-180°	29.6	0.7
0°-30°	568.6	14.1
0°-40°	930.4	23.1
0°-60°	1645.7	40.9
0°-90°	2085.3	51.8
90°-120°	933.6	23.2
90°-150°	1678.9	41.7
90°-180°	1937.0	48.2
0°-180°	4022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	733	733	733	733	733	
5°	735	726	730	731	731	70
15°	711	704	704	704	707	200
25°	657	652	653	649	649	304
35°	583	577	583	576	574	366
45°	490	487	490	481	483	379
55°	386	385	382	378	376	344
65°	267	266	261	258	256	264
75°	139	137	135	133	133	148
85°	28	30	31	32	31	34
90°	0	0	0	0	0	2
95°	15	61	275	95	59	18
105°	63	95	412	728	692	66
115°	117	141	312	662	777	115
125°	165	183	298	495	592	147
135°	202	218	295	418	472	156
145°	238	250	297	362	394	148
155°	272	278	304	327	340	126
165°	300	301	308	314	319	84
175°	314	312	311	309	307	30
180°	312	312	312	312	312	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	733.0	733.0	733.0	733.0	733.0
2.5°	738.6	730.8	732.2	732.9	727.4
5°	735.0	726.2	730.0	731.0	731.0
7.5°	731.8	725.0	727.4	724.4	724.0
10°	723.0	720.1	725.0	718.0	716.0
12.5°	719.0	714.5	715.4	714.0	716.0
15°	711.0	704.2	704.0	704.1	707.0
17.5°	698.6	689.8	695.6	689.4	688.6
20°	689.0	680.2	686.0	679.0	679.0
22.5°	679.4	669.0	674.8	665.3	663.0
25°	657.0	652.1	653.0	649.0	649.0
27.5°	641.2	630.4	634.0	628.4	628.8
30°	626.0	615.2	622.0	614.0	616.0
32.5°	610.8	604.0	607.6	598.9	602.4
35°	583.0	577.1	583.0	576.0	574.0
37.5°	558.6	552.5	554.4	549.9	545.0
40°	541.0	534.2	536.0	530.0	529.0
42.5°	521.8	517.3	517.6	512.4	513.0
45°	490.0	487.1	490.0	481.0	483.0
47.5°	461.6	458.1	457.8	451.9	454.2
50°	440.0	438.0	437.0	431.0	431.0
52.5°	417.6	415.6	414.6	410.2	409.4
55°	386.0	385.0	382.0	378.0	376.0
57.5°	351.4	349.4	347.8	343.6	342.0
60°	329.0	327.0	323.0	318.0	318.0
62.5°	304.2	302.2	297.4	295.5	292.4
65°	267.0	266.0	261.0	258.0	256.0
67.5°	230.0	226.9	224.6	220.8	218.8
70°	206.0	202.1	199.0	196.0	194.0
72.5°	179.6	176.5	173.4	171.9	169.2
75°	139.0	137.0	135.0	133.0	133.0
77.5°	101.0	100.4	98.4	98.4	97.4
80°	77.0	78.0	76.0	76.0	75.0
82.5°	55.4	56.4	56.0	56.8	55.8
85°	28.0	30.0	31.0	32.0	31.0
87.5°	8.0	10.3	12.0	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.7	25.1	58.3	17.0	12.8
95°	15.4	61.2	275.0	95.2	58.7
97.5°	28.3	71.7	423.6	303.1	207.7
100°	37.3	77.9	455.8	461.7	355.7
102.5°	47.3	84.6	448.7	591.0	498.4
105°	62.8	95.3	412.0	727.7	691.7
107.5°	78.6	107.7	369.0	766.2	798.2
110°	89.5	116.7	344.4	751.5	823.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	99.9	125.8	327.8	716.6	819.1
115°	116.8	141.1	312.4	661.8	777.1
117.5°	131.6	154.4	303.3	601.8	724.0
120°	143.4	162.6	302.3	567.6	684.6
122.5°	152.9	172.1	299.9	537.5	646.2
125°	164.8	182.8	298.2	494.8	591.6
127.5°	177.7	194.5	297.2	469.3	549.0
130°	184.3	201.2	295.8	451.5	521.0
132.5°	191.5	207.8	295.8	437.6	501.6
135°	201.5	218.3	294.6	417.9	472.4
137.5°	211.0	227.4	294.5	401.3	448.4
140°	218.1	234.9	294.0	387.5	432.7
142.5°	226.2	240.2	295.4	376.5	417.1
145°	237.7	249.9	297.0	361.7	394.2
147.5°	247.5	259.4	299.6	346.8	374.9
150°	256.1	264.2	300.5	341.9	361.6
152.5°	262.7	271.3	301.5	335.2	353.5
155°	271.5	277.9	304.1	326.9	340.2
157.5°	282.4	286.2	304.7	323.1	332.7
160°	288.1	291.0	307.0	320.3	328.4
162.5°	291.4	294.8	307.5	317.9	324.1
165°	299.9	301.1	307.6	314.3	318.9
167.5°	305.7	304.7	310.4	313.4	315.2
170°	307.6	307.1	309.4	310.1	312.4
172.5°	311.9	309.9	310.8	309.1	311.0
175°	314.2	312.4	311.2	309.4	307.0
177.5°	315.1	312.3	310.8	309.0	309.4
180°	311.8	311.8	311.8	311.8	311.8

(END OF REPORT)