

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: P521704

Luminaire Tested: SQ4-WB-025U-050D-92765-1D-UNV-STD-W-4_2700K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521704
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_2700K
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3520.6 lumens
Efficiency: N/A
Efficacy: 101.8 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

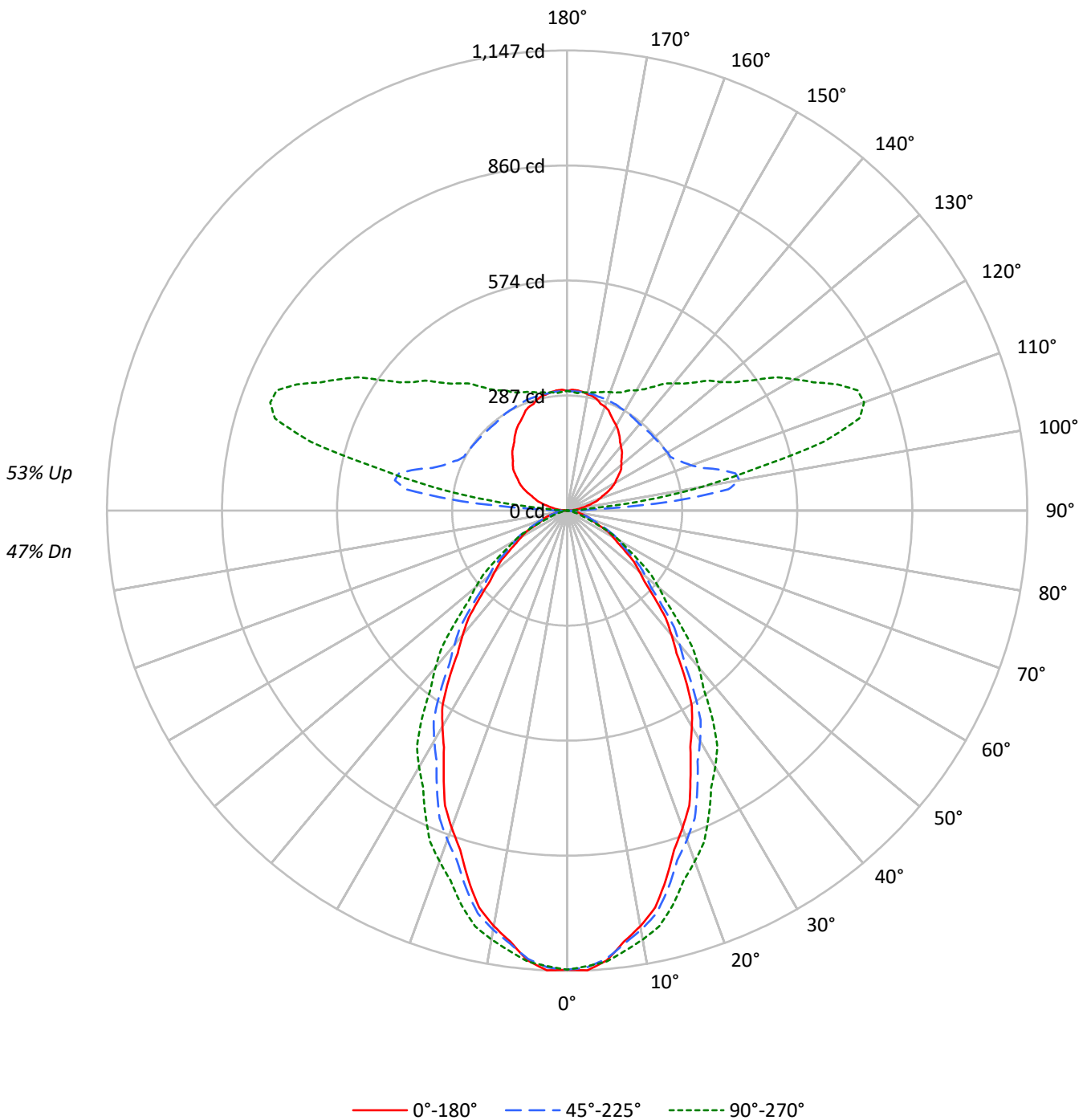
Input Watts (W): 34.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	10558	10558	10558
5°	10427	10389	10451
10°	9851	9941	10171
15°	9094	9305	9723
20°	8258	8569	9136
25°	7407	7811	8511
30°	6623	7057	7864
35°	5791	6210	7098
40°	4874	5262	6145
45°	4023	4370	5130
50°	3359	3662	4274
55°	2852	3141	3529
60°	2438	2724	2818
65°	1941	2292	1821
70°	1721	1788	1111
75°	1593	1451	681
80°	1466	1334	584
85°	1334	1217	476

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5130 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	3.0
10°-20°	273.0	7.8
20°-30°	353.7	10.0
30°-40°	346.3	9.8
40°-50°	265.1	7.5
50°-60°	176.6	5.0
60°-70°	96.4	2.7
70°-80°	40.2	1.1
80°-90°	11.4	0.3
90°-100°	135.9	3.9
100°-110°	386.8	11.0
110°-120°	370.6	10.5
120°-130°	293.3	8.3
130°-140°	235.4	6.7
140°-150°	184.3	5.2
150°-160°	134.8	3.8
160°-170°	83.5	2.4
170°-180°	28.3	0.8
0°-30°	731.7	20.8
0°-40°	1078.0	30.6
0°-60°	1519.7	43.2
0°-90°	1667.7	47.4
90°-120°	893.2	25.4
90°-150°	1606.2	45.6
90°-180°	1853.0	52.6
0°-180°	3520.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1126	1115	1122	1124	1128	105
15°	952	949	974	1001	1018	266
25°	728	730	767	801	836	335
35°	514	517	551	588	630	320
45°	308	314	335	360	393	240
55°	177	185	195	203	219	161
65°	89	96	105	92	83	92
75°	45	45	41	28	19	48
85°	13	13	12	8	4	14
90°	0	0	0	0	0	1
95°	15	59	263	91	56	17
105°	60	91	394	696	662	64
115°	112	135	299	633	744	110
125°	158	175	285	473	566	141
135°	193	209	282	400	452	149
145°	227	239	284	346	377	142
155°	260	266	291	313	326	120
165°	287	288	294	301	305	81
175°	301	299	298	296	294	28
180°	298	298	298	298	298	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1144.4	1144.4	1144.4	1144.4	1144.4
2.5°	1147.3	1137.0	1139.6	1139.5	1136.4
5°	1125.9	1114.6	1121.8	1124.4	1128.4
7.5°	1084.1	1075.5	1088.8	1098.6	1106.6
10°	1051.5	1044.2	1061.1	1075.4	1085.7
12.5°	1013.8	1007.6	1028.5	1047.7	1061.2
15°	952.1	948.7	974.2	1000.7	1017.9
17.5°	886.1	884.5	913.7	944.7	966.7
20°	841.1	840.6	872.8	905.0	930.5
22.5°	795.7	796.8	830.6	864.1	893.2
25°	727.6	729.6	767.3	800.8	836.1
27.5°	664.7	665.6	704.5	739.8	777.6
30°	621.7	624.1	662.4	698.9	738.2
32.5°	578.7	581.5	619.0	656.7	696.8
35°	514.2	516.7	551.4	588.5	630.2
37.5°	447.7	451.1	481.9	517.0	558.0
40°	404.7	409.7	436.9	469.9	510.2
42.5°	363.4	369.5	394.7	426.1	462.4
45°	308.3	314.2	334.9	360.3	393.2
47.5°	260.9	267.7	283.6	305.5	333.5
50°	234.0	240.4	255.1	271.3	297.8
52.5°	210.3	216.7	229.8	242.3	264.8
55°	177.3	184.6	195.3	202.8	219.4
57.5°	150.1	157.2	165.7	169.1	179.2
60°	132.1	139.9	147.6	147.3	152.7
62.5°	115.6	122.3	130.0	124.6	124.9
65°	88.9	96.2	105.0	91.7	83.4
67.5°	71.8	73.4	82.4	64.0	54.0
70°	63.8	63.8	66.3	49.5	41.2
72.5°	56.1	56.1	53.8	40.3	31.5
75°	44.7	44.7	40.7	27.9	19.1
77.5°	34.4	34.1	31.1	20.8	13.9
80°	27.6	27.6	25.1	16.4	11.0
82.5°	21.6	21.6	19.5	12.9	8.2
85°	12.6	12.6	11.5	7.5	4.5
87.5°	4.4	4.4	4.0	2.4	2.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.5	24.1	55.8	16.2	12.2
95°	14.7	58.6	263.1	91.1	56.1
97.5°	27.1	68.6	405.3	290.0	198.7
100°	35.7	74.5	436.1	441.7	340.3
102.5°	45.3	81.0	429.3	565.4	476.8
105°	60.1	91.2	394.1	696.2	661.8
107.5°	75.2	103.0	353.1	733.1	763.7
110°	85.6	111.7	329.5	719.0	787.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.6	120.3	313.6	685.6	783.6
115°	111.7	135.0	298.9	633.1	743.5
117.5°	125.9	147.7	290.1	575.8	692.7
120°	137.2	155.5	289.2	543.0	655.0
122.5°	146.3	164.6	287.0	514.2	618.3
125°	157.7	174.8	285.3	473.4	566.0
127.5°	170.0	186.1	284.3	449.0	525.3
130°	176.4	192.5	283.0	431.9	498.5
132.5°	183.2	198.8	283.0	418.7	479.9
135°	192.8	208.9	281.9	399.9	452.0
137.5°	201.9	217.5	281.7	383.9	429.0
140°	208.7	224.8	281.3	370.7	414.0
142.5°	216.4	229.8	282.6	360.2	399.0
145°	227.4	239.1	284.1	346.1	377.1
147.5°	236.8	248.1	286.6	331.8	358.6
150°	245.0	252.8	287.5	327.1	345.9
152.5°	251.3	259.6	288.4	320.7	338.2
155°	259.7	265.8	290.9	312.8	325.5
157.5°	270.2	273.8	291.5	309.2	318.3
160°	275.6	278.4	293.8	306.4	314.2
162.5°	278.8	282.0	294.2	304.1	310.1
165°	287.0	288.1	294.3	300.7	305.1
167.5°	292.5	291.5	296.9	299.8	301.6
170°	294.3	293.8	296.0	296.6	298.9
172.5°	298.4	296.5	297.4	295.7	297.5
175°	300.6	298.9	297.7	296.0	293.8
177.5°	301.5	298.8	297.4	295.6	296.0
180°	298.3	298.3	298.3	298.3	298.3

(END OF REPORT)