

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: P521718

Luminaire Tested: SQ4-WB-025U-075D-92765-1D-UNV-STD-W-4\_3000K

Issue Date: 5-5-2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P521718  
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-075D-92765-1D-UNV-STD-W-4\_3000K  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 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: 4440.7 lumens  
Efficiency: N/A  
Efficacy: 96.7 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

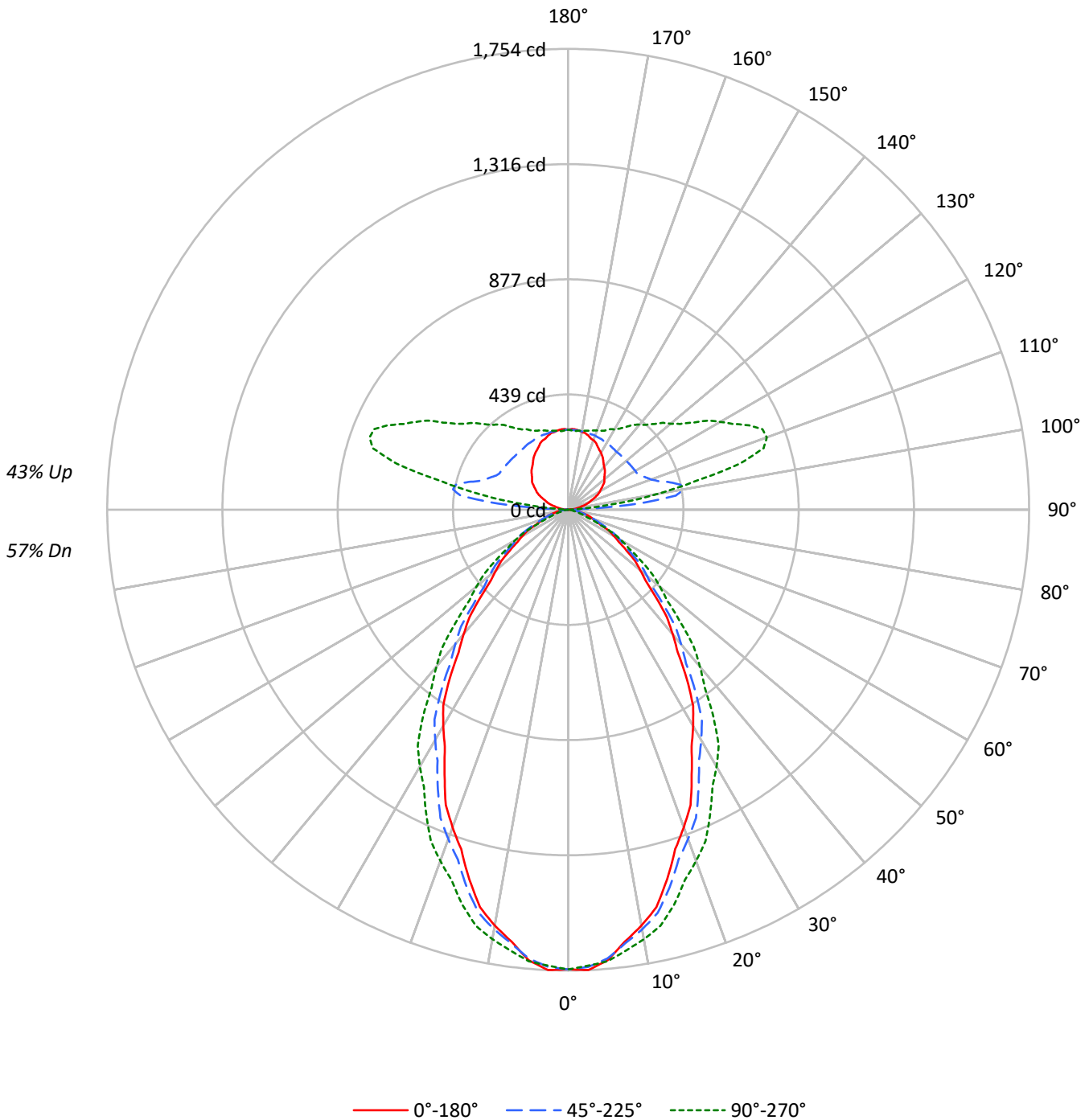
Input Watts (W): 45.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P521718

CATALOG NUMBER: SQ4-WB-025U-075D-92765-1D-UNV-STD-W-4\_3000K

### Luminous Intensity Polar Plot



TEST NUMBER: P521718

CATALOG NUMBER: SQ4-WB-025U-075D-92765-1D-UNV-STD-W-4\_3000K

**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	109	109	109	109	101	101	101	101	87	87	87		75	75	75		63	63	63	57
1	101	97	93	90	94	91	88	85	79	76	75		68	66	65		58	57	56	51
2	93	86	81	76	86	81	76	72	71	67	64		61	59	56		52	51	49	45
3	86	77	70	65	80	72	67	62	64	59	55		55	52	49		48	45	43	40
4	79	69	62	56	74	65	59	54	57	52	49		50	47	44		44	41	39	35
5	73	62	55	49	68	59	52	47	52	47	43		46	42	39		40	37	35	32
6	68	57	49	44	63	54	47	42	48	42	38		42	38	35		37	34	31	29
7	63	52	44	39	59	49	42	38	44	38	34		39	35	31		34	31	28	26
8	59	47	40	35	55	45	38	34	40	35	31		36	32	29		32	28	26	24
9	55	44	37	32	52	42	35	31	37	32	28		33	29	26		30	26	24	22
10	52	40	34	29	49	38	32	28	35	30	26		31	27	24		28	24	22	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	16141	16141	16141
5°	15940	15882	15975
10°	15060	15196	15549
15°	13902	14224	14862
20°	12624	13100	13967
25°	11323	11941	13011
30°	10124	10787	12021
35°	8854	9494	10851
40°	7452	8044	9393
45°	6149	6680	7843
50°	5134	5598	6534
55°	4359	4803	5397
60°	3726	4165	4307
65°	2967	3502	2781
70°	2630	2733	1697
75°	2435	2217	1041
80°	2242	2040	898
85°	2032	1874	730

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7843 cd/sqm

TEST NUMBER: P521718

CATALOG NUMBER: SQ4-WB-025U-075D-92765-1D-UNV-STD-W-4\_3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.5	3.6
10°-20°	417.4	9.4
20°-30°	540.6	12.2
30°-40°	529.4	11.9
40°-50°	405.2	9.1
50°-60°	270.0	6.1
60°-70°	147.4	3.3
70°-80°	61.4	1.4
80°-90°	17.4	0.4
90°-100°	138.8	3.1
100°-110°	394.8	8.9
110°-120°	378.2	8.5
120°-130°	299.4	6.7
130°-140°	240.3	5.4
140°-150°	188.1	4.2
150°-160°	137.6	3.1
160°-170°	85.3	1.9
170°-180°	28.9	0.7
0°-30°	1118.5	25.2
0°-40°	1647.9	37.1
0°-60°	2323.1	52.3
0°-90°	2549.3	57.4
90°-120°	911.8	20.5
90°-150°	1639.5	36.9
90°-180°	1891.0	42.6
0°-180°	4440.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1750	1750	1750	1750	1750	
5°	1721	1704	1715	1719	1725	160
15°	1456	1450	1489	1530	1556	406
25°	1112	1115	1173	1224	1278	512
35°	786	790	843	900	963	489
45°	471	480	512	551	601	368
55°	271	282	299	310	336	246
65°	136	147	160	140	127	141
75°	68	68	62	43	29	73
85°	19	19	18	11	7	21
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	

TEST NUMBER: P521718

CATALOG NUMBER: SQ4-WB-025U-075D-92765-1D-UNV-STD-W-4\_3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1749.5	1749.5	1749.5	1749.5	1749.5
2.5°	1753.8	1738.2	1742.1	1742.0	1737.2
5°	1721.1	1703.8	1714.9	1718.9	1724.9
7.5°	1657.2	1644.1	1664.4	1679.4	1691.6
10°	1607.5	1596.2	1622.0	1643.9	1659.7
12.5°	1549.7	1540.3	1572.3	1601.6	1622.2
15°	1455.5	1450.2	1489.2	1529.8	1556.0
17.5°	1354.6	1352.0	1396.8	1444.1	1477.7
20°	1285.8	1285.1	1334.2	1383.4	1422.5
22.5°	1216.4	1218.1	1269.7	1320.9	1365.3
25°	1112.3	1115.3	1173.0	1224.1	1278.1
27.5°	1016.1	1017.4	1077.0	1131.0	1188.6
30°	950.3	954.1	1012.5	1068.4	1128.4
32.5°	884.6	889.0	946.2	1003.9	1065.2
35°	786.1	789.8	842.9	899.6	963.4
37.5°	684.4	689.5	736.6	790.3	853.0
40°	618.7	626.2	667.9	718.4	779.9
42.5°	555.5	564.8	603.4	651.3	706.9
45°	471.3	480.3	512.0	550.8	601.1
47.5°	398.9	409.2	433.6	466.9	509.9
50°	357.7	367.5	390.0	414.7	455.2
52.5°	321.5	331.2	351.3	370.3	404.9
55°	271.0	282.2	298.6	309.9	335.5
57.5°	229.5	240.3	253.3	258.4	273.9
60°	201.9	213.9	225.7	225.1	233.4
62.5°	176.7	186.9	198.7	190.5	191.0
65°	135.9	147.1	160.4	140.2	127.4
67.5°	109.8	112.2	125.9	97.8	82.6
70°	97.5	97.5	101.3	75.7	62.9
72.5°	85.8	85.8	82.3	61.6	48.2
75°	68.3	68.3	62.2	42.7	29.2
77.5°	52.7	52.1	47.6	31.8	21.2
80°	42.2	42.2	38.4	25.1	16.9
82.5°	33.0	33.0	29.8	19.6	12.6
85°	19.2	19.2	17.7	11.4	6.9
87.5°	6.8	6.8	6.1	3.7	3.1
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

TEST NUMBER: P521718

CATALOG NUMBER: SQ4-WB-025U-075D-92765-1D-UNV-STD-W-4\_3000K

**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)