

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: P521731

Luminaire Tested: SQ4-WB-025U-100D-92765-1D-UNV-STD-W-4_3000K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521731
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-100D-92765-1D-UNV-STD-W-4_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 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: 5242.6 lumens
Efficiency: N/A
Efficacy: 93.0 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: Semi-Direct

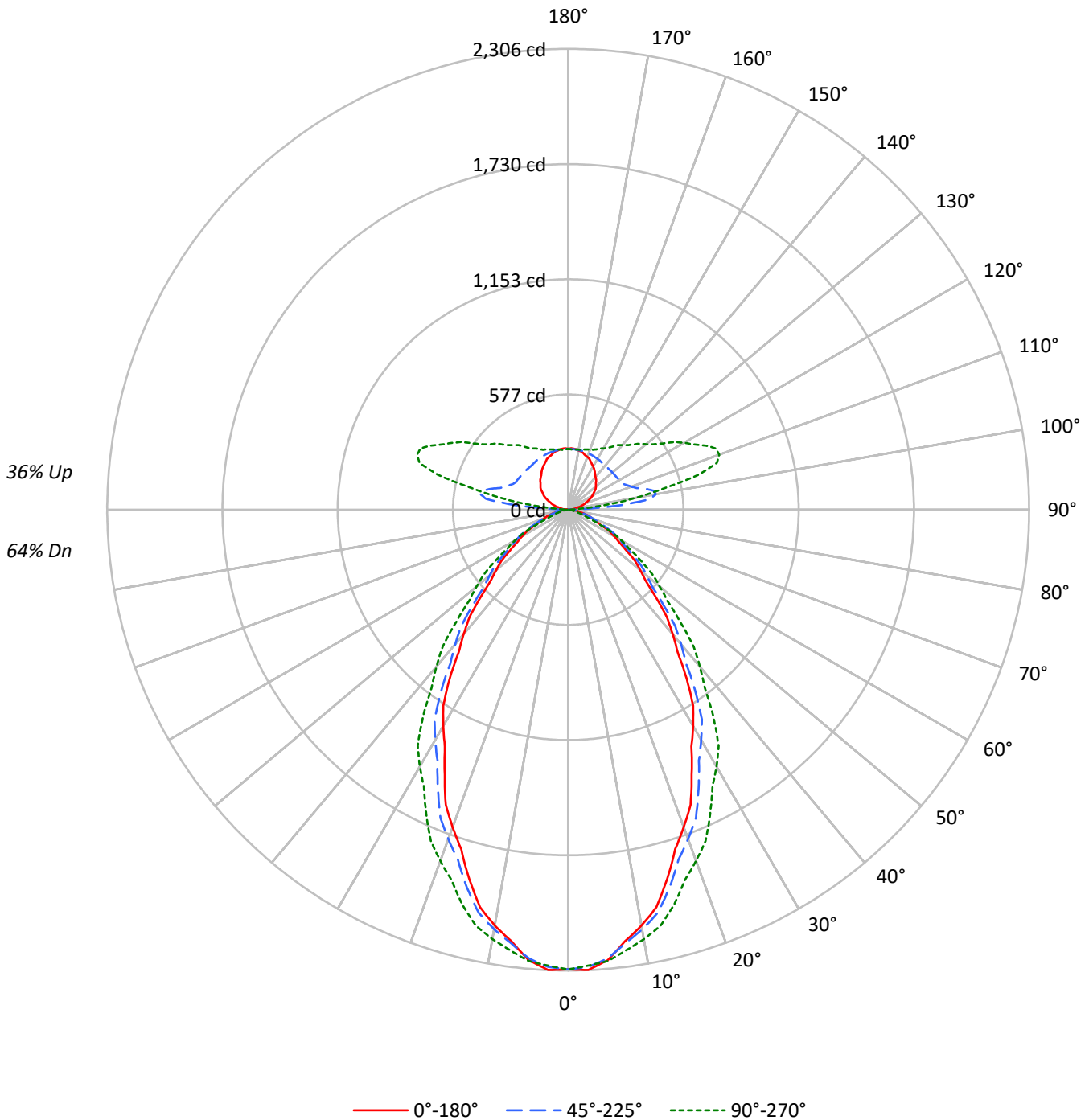
Input Watts (W): 56.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P521731

CATALOG NUMBER: SQ4-WB-025U-100D-92765-1D-UNV-STD-W-4_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P521731

CATALOG NUMBER: SQ4-WB-025U-100D-92765-1D-UNV-STD-W-4_3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									70									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	110	110	110	110	104	104	104	104	91	91	91	80	80	80	69	69	69	64																			
1	102	98	95	92	96	93	90	87	82	80	78	72	71	69	63	62	61	57																			
2	94	88	82	78	89	83	78	74	74	70	67	65	63	60	57	56	54	50																			
3	87	79	72	67	82	74	69	64	66	62	58	59	56	53	52	50	48	44																			
4	81	71	63	58	76	67	61	56	60	55	51	54	50	47	48	45	42	39																			
5	75	64	56	51	70	61	54	49	55	49	45	49	45	42	44	41	38	35																			
6	69	58	51	45	65	55	49	44	50	45	40	45	41	37	41	37	34	32																			
7	65	53	46	40	61	51	44	39	46	41	36	42	37	34	38	34	31	29																			
8	60	49	42	37	57	47	40	35	43	37	33	39	34	31	35	31	29	27																			
9	57	45	38	33	54	43	37	32	39	34	30	36	31	28	33	29	26	24																			
10	53	42	35	30	50	40	34	29	37	31	28	33	29	26	31	27	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21218	21218	21218
5°	20954	20879	21000
10°	19797	19977	20439
15°	18275	18699	19538
20°	16596	17220	18359
25°	14885	15697	17104
30°	13309	14180	15803
35°	11638	12480	14265
40°	9797	10573	12349
45°	8084	8782	10309
50°	6750	7358	8589
55°	5730	6315	7094
60°	4897	5475	5661
65°	3899	4604	3657
70°	3458	3593	2231
75°	3201	2912	1365
80°	2949	2683	1180
85°	2668	2456	963

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10309 cd/sqm

TEST NUMBER: P521731

CATALOG NUMBER: SQ4-WB-025U-100D-92765-1D-UNV-STD-W-4_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.9	4.0
10°-20°	548.7	10.5
20°-30°	710.7	13.6
30°-40°	696.0	13.3
40°-50°	532.7	10.2
50°-60°	355.0	6.8
60°-70°	193.7	3.7
70°-80°	80.7	1.5
80°-90°	22.9	0.4
90°-100°	138.8	2.6
100°-110°	394.8	7.5
110°-120°	378.2	7.2
120°-130°	299.4	5.7
130°-140°	240.3	4.6
140°-150°	188.1	3.6
150°-160°	137.6	2.6
160°-170°	85.3	1.6
170°-180°	28.9	0.6
0°-30°	1470.3	28.0
0°-40°	2166.3	41.3
0°-60°	3054.0	58.3
0°-90°	3351.2	63.9
90°-120°	911.8	17.4
90°-150°	1639.5	31.3
90°-180°	1891.0	36.1
0°-180°	5242.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2300	2300	2300	2300	2300	
5°	2262	2240	2254	2260	2268	210
15°	1913	1906	1958	2011	2046	534
25°	1462	1466	1542	1609	1680	672
35°	1033	1038	1108	1183	1266	642
45°	620	631	673	724	790	483
55°	356	371	393	407	441	323
65°	179	193	211	184	168	186
75°	90	90	82	56	38	96
85°	25	25	23	15	9	27
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: P521731

CATALOG NUMBER: SQ4-WB-025U-100D-92765-1D-UNV-STD-W-4_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2299.8	2299.8	2299.8	2299.8	2299.8
2.5°	2305.5	2284.9	2290.1	2290.0	2283.7
5°	2262.5	2239.8	2254.4	2259.6	2267.5
7.5°	2178.5	2161.3	2188.0	2207.7	2223.7
10°	2113.1	2098.3	2132.3	2161.0	2181.7
12.5°	2037.2	2024.8	2066.9	2105.5	2132.5
15°	1913.3	1906.4	1957.7	2011.0	2045.5
17.5°	1780.7	1777.4	1836.2	1898.4	1942.6
20°	1690.3	1689.3	1753.9	1818.6	1869.9
22.5°	1599.1	1601.2	1669.1	1736.4	1794.8
25°	1462.2	1466.2	1541.9	1609.2	1680.2
27.5°	1335.7	1337.5	1415.8	1486.8	1562.5
30°	1249.3	1254.2	1331.0	1404.5	1483.4
32.5°	1162.9	1168.6	1243.9	1319.8	1400.3
35°	1033.3	1038.3	1108.0	1182.6	1266.5
37.5°	899.7	906.4	968.4	1038.9	1121.3
40°	813.4	823.2	877.9	944.4	1025.3
42.5°	730.2	742.4	793.2	856.2	929.2
45°	619.6	631.4	673.1	724.0	790.1
47.5°	524.3	538.0	570.0	613.8	670.3
50°	470.3	483.1	512.6	545.1	598.4
52.5°	422.6	435.4	461.8	486.8	532.2
55°	356.2	371.0	392.6	407.4	441.0
57.5°	301.7	315.9	333.0	339.7	360.1
60°	265.4	281.2	296.7	295.9	306.8
62.5°	232.3	245.7	261.2	250.5	251.1
65°	178.6	193.4	210.9	184.3	167.5
67.5°	144.3	147.5	165.5	128.5	108.6
70°	128.2	128.2	133.2	99.5	82.7
72.5°	112.8	112.8	108.2	80.9	63.4
75°	89.8	89.8	81.7	56.1	38.3
77.5°	69.2	68.4	62.6	41.9	27.9
80°	55.5	55.5	50.5	33.1	22.2
82.5°	43.4	43.4	39.2	25.8	16.5
85°	25.2	25.2	23.2	15.0	9.1
87.5°	8.9	8.9	8.1	4.8	4.0
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: P521731

CATALOG NUMBER: SQ4-WB-025U-100D-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)