

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: P521823

Luminaire Tested: SQ4-WB-075U-075D-92765-1D-UNV-STD-W-4_3500K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521823
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-075U-075D-92765-1D-UNV-STD-W-4_3500K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 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: 5877.8 lumens
Efficiency: N/A
Efficacy: 105.7 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

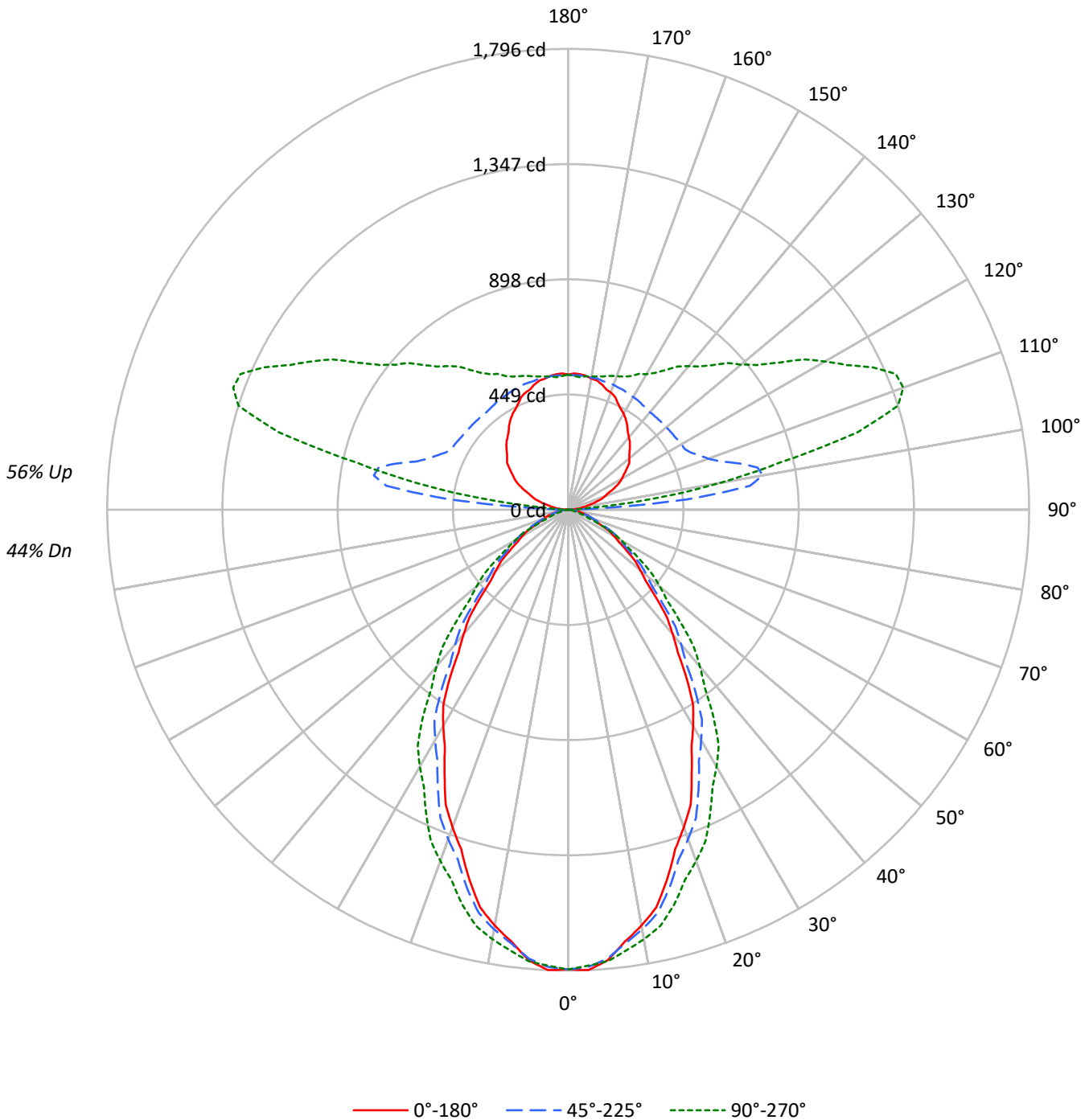
Input Watts (W): 55.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44				
1	98	94	90	87	89	86	83	80	72	70	68	59	57	56	47	46	45	39				
2	90	83	77	73	82	76	72	68	64	61	58	53	51	48	42	41	40	35				
3	82	74	67	62	76	68	62	58	58	53	50	48	45	42	38	37	35	31				
4	76	66	59	53	70	61	55	50	52	47	44	43	40	37	35	33	31	27				
5	70	59	52	46	64	55	49	44	47	42	38	39	36	33	32	30	28	25				
6	65	54	46	41	60	50	43	39	43	38	34	36	32	29	30	27	25	22				
7	60	49	42	36	55	46	39	34	39	34	30	33	29	27	27	25	23	20				
8	56	45	37	32	52	42	35	31	36	31	27	31	27	24	25	23	21	18				
9	53	41	34	29	48	38	32	28	33	28	25	28	25	22	24	21	19	17				
10	49	38	31	27	45	35	29	25	31	26	23	26	23	20	22	19	18	16				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16529	16529	16529
5°	16322	16264	16358
10°	15421	15561	15922
15°	14236	14566	15220
20°	12928	13414	14301
25°	11595	12227	13324
30°	10368	11046	12310
35°	9066	9721	11111
40°	7631	8237	9618
45°	6297	6841	8031
50°	5258	5731	6690
55°	4464	4919	5525
60°	3814	4264	4410
65°	3037	3587	2849
70°	2692	2800	1740
75°	2495	2271	1066
80°	2295	2088	919
85°	2085	1916	752

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8031 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	2.8
10°-20°	427.4	7.3
20°-30°	553.6	9.4
30°-40°	542.1	9.2
40°-50°	415.0	7.1
50°-60°	276.5	4.7
60°-70°	150.9	2.6
70°-80°	62.9	1.1
80°-90°	17.8	0.3
90°-100°	239.7	4.1
100°-110°	682.0	11.6
110°-120°	653.4	11.1
120°-130°	517.2	8.8
130°-140°	415.1	7.1
140°-150°	325.0	5.5
150°-160°	237.8	4.0
160°-170°	147.3	2.5
170°-180°	50.0	0.9
0°-30°	1145.3	19.5
0°-40°	1687.4	28.7
0°-60°	2378.9	40.5
0°-90°	2610.5	44.4
90°-120°	1575.1	26.8
90°-150°	2832.3	48.2
90°-180°	3267.0	55.6
0°-180°	5877.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1762	1745	1756	1760	1766	164
15°	1490	1485	1525	1566	1593	416
25°	1139	1142	1201	1254	1309	524
35°	805	809	863	921	986	500
45°	483	492	524	564	616	376
55°	278	289	306	317	344	252
65°	139	151	164	144	130	145
75°	70	70	64	44	30	75
85°	20	20	18	12	7	21
90°	0	0	0	0	0	2
95°	26	103	464	161	99	30
105°	106	161	695	1228	1167	112
115°	197	238	527	1116	1311	194
125°	278	308	503	835	998	249
135°	340	368	497	705	797	262
145°	401	422	501	610	665	250
155°	458	469	513	552	574	212
165°	506	508	519	530	538	142
175°	530	527	525	522	518	50
180°	526	526	526	526	526	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1791.5	1791.5	1791.5	1791.5	1791.5
2.5°	1795.9	1779.9	1783.9	1783.8	1778.9
5°	1762.4	1744.7	1756.1	1760.1	1766.3
7.5°	1697.0	1683.6	1704.4	1719.7	1732.2
10°	1646.0	1634.5	1661.0	1683.3	1699.5
12.5°	1586.9	1577.2	1610.0	1640.1	1661.1
15°	1490.4	1485.0	1525.0	1566.5	1593.4
17.5°	1387.1	1384.5	1430.3	1478.7	1513.2
20°	1316.7	1315.9	1366.2	1416.6	1456.6
22.5°	1245.6	1247.3	1300.2	1352.6	1398.1
25°	1139.0	1142.1	1201.1	1253.5	1308.8
27.5°	1040.4	1041.8	1102.9	1158.1	1217.1
30°	973.2	977.0	1036.8	1094.0	1155.5
32.5°	905.9	910.3	968.9	1028.0	1090.7
35°	804.9	808.8	863.1	921.2	986.5
37.5°	700.9	706.1	754.3	809.2	873.5
40°	633.6	641.3	683.9	735.6	798.6
42.5°	568.8	578.3	617.9	666.9	723.8
45°	482.6	491.9	524.3	564.0	615.5
47.5°	408.4	419.0	444.0	478.1	522.1
50°	366.3	376.3	399.3	424.6	466.1
52.5°	329.2	339.2	359.7	379.2	414.6
55°	277.5	289.0	305.8	317.4	343.5
57.5°	235.0	246.1	259.4	264.6	280.5
60°	206.7	219.0	231.1	230.5	239.0
62.5°	181.0	191.4	203.4	195.1	195.6
65°	139.1	150.7	164.3	143.6	130.5
67.5°	112.4	114.9	128.9	100.1	84.6
70°	99.8	99.8	103.8	77.5	64.5
72.5°	87.9	87.9	84.3	63.0	49.4
75°	70.0	70.0	63.7	43.7	29.9
77.5°	53.9	53.3	48.7	32.6	21.7
80°	43.2	43.2	39.3	25.7	17.3
82.5°	33.8	33.8	30.5	20.1	12.9
85°	19.7	19.7	18.1	11.7	7.1
87.5°	6.9	6.9	6.3	3.8	3.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.0	42.4	98.4	28.6	21.6
95°	26.0	103.2	464.0	160.6	99.0
97.5°	47.8	120.9	714.6	511.3	350.4
100°	63.0	131.4	769.0	778.9	600.0
102.5°	79.8	142.8	757.0	997.0	840.8
105°	106.0	160.8	695.0	1227.6	1167.0
107.5°	132.6	181.7	622.6	1292.6	1346.6
110°	151.0	197.0	581.0	1267.8	1389.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	168.6	212.2	553.0	1208.9	1381.8
115°	197.0	238.1	527.0	1116.4	1311.0
117.5°	222.0	260.5	511.6	1015.3	1221.4
120°	242.0	274.3	510.0	957.5	1155.0
122.5°	258.0	290.3	506.0	906.8	1090.2
125°	278.0	308.3	503.0	834.7	998.0
127.5°	299.8	328.2	501.4	791.7	926.2
130°	311.0	339.4	499.0	761.7	879.0
132.5°	323.0	350.6	499.0	738.3	846.2
135°	340.0	368.4	497.0	705.1	797.0
137.5°	356.0	383.6	496.8	677.0	756.4
140°	368.0	396.4	496.0	653.7	730.0
142.5°	381.6	405.3	498.4	635.2	703.6
145°	401.0	421.5	501.0	610.2	665.0
147.5°	417.6	437.5	505.4	585.1	632.4
150°	432.0	445.7	507.0	576.8	610.0
152.5°	443.2	457.7	508.6	565.5	596.4
155°	458.0	468.8	513.0	551.5	574.0
157.5°	476.4	482.9	514.0	545.2	561.2
160°	486.0	490.9	518.0	540.3	554.0
162.5°	491.6	497.3	518.8	536.2	546.8
165°	506.0	508.0	519.0	530.2	538.0
167.5°	515.8	514.0	523.6	528.7	531.8
170°	519.0	518.0	522.0	523.1	527.0
172.5°	526.2	522.9	524.4	521.5	524.6
175°	530.0	527.1	525.0	521.9	518.0
177.5°	531.6	526.9	524.4	521.2	522.0
180°	526.0	526.0	526.0	526.0	526.0

(END OF REPORT)