

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: P522008

Luminaire Tested: SQ4-WB-125U-125D-92765-1D-UNV-STD-W-4\_5000K

Issue Date: 5-5-2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P522008  
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-125U-125D-92765-1D-UNV-STD-W-4\_5000K  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10290.7 lumens  
Efficiency: N/A  
Efficacy: 106.0 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: General Diffuse

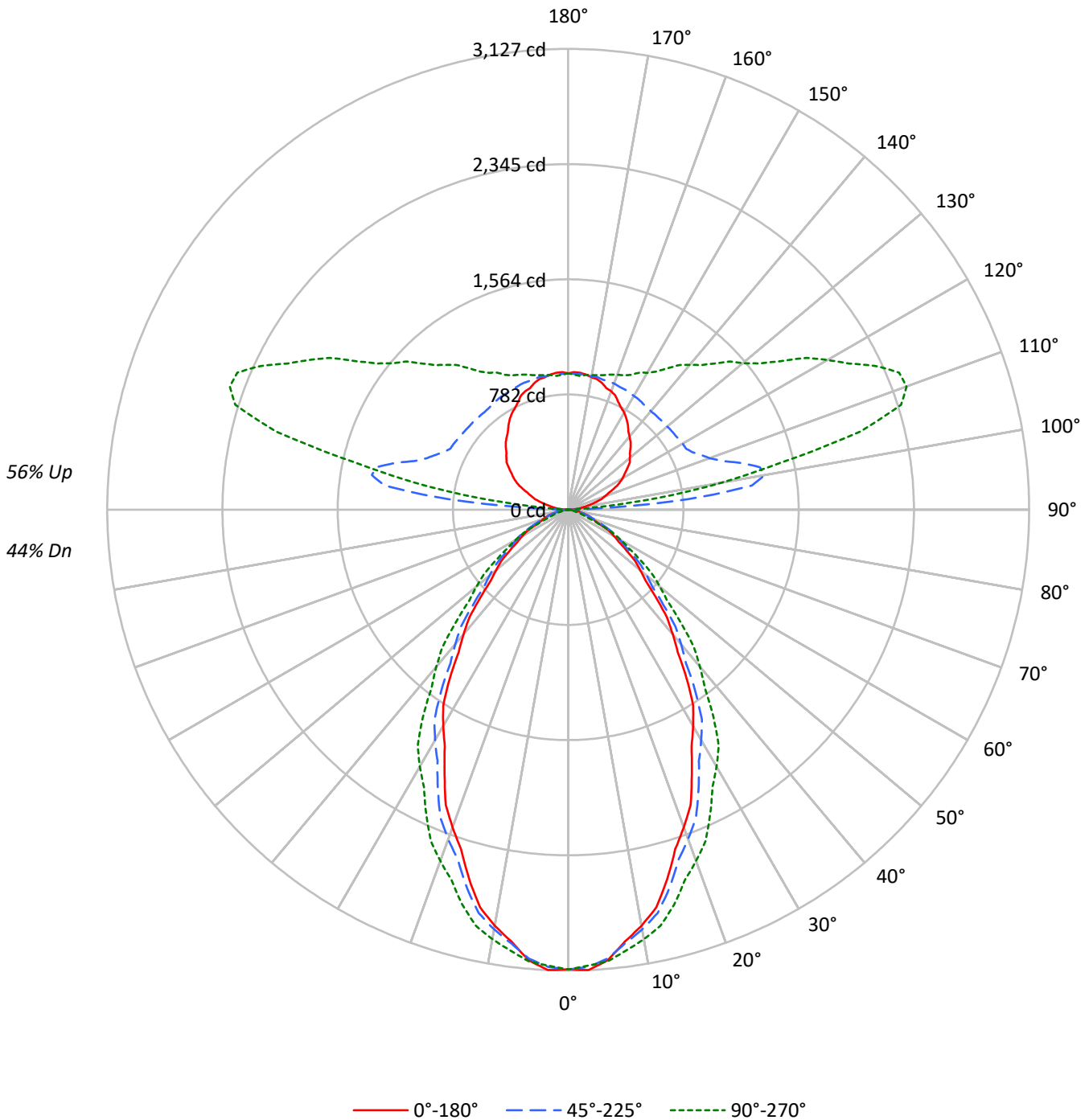
Input Watts (W): 97.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	97	94	90	87	89	86	83	80	72	70	68	59	57	56	46	46	45	39				
2	90	83	77	73	82	76	72	68	64	61	58	53	50	48	42	41	39	35				
3	82	74	67	62	75	68	62	58	57	53	50	48	45	42	38	36	35	31				
4	76	66	59	53	70	61	55	50	52	47	43	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	24				
6	65	54	46	41	60	50	43	39	43	38	34	36	32	29	30	27	25	22				
7	60	49	41	36	55	45	39	34	39	34	30	33	29	26	27	25	23	20				
8	56	45	37	32	52	42	35	31	36	31	27	30	27	24	25	23	21	18				
9	52	41	34	29	48	38	32	28	33	28	25	28	25	22	24	21	19	17				
10	49	38	31	26	45	35	29	25	31	26	23	26	23	20	22	19	17	16				

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

	0°	45°	90°
0°	28778	28778	28778
5°	28420	28318	28483
10°	26850	27094	27722
15°	24787	25363	26499
20°	22509	23356	24901
25°	20189	21290	23199
30°	18051	19233	21435
35°	15785	16926	19347
40°	13287	14342	16748
45°	10965	11911	13983
50°	9155	9980	11649
55°	7771	8564	9621
60°	6643	7425	7678
65°	5290	6246	4960
70°	4688	4874	3027
75°	4342	3953	1854
80°	4001	3634	1599
85°	3620	3335	1302

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 13983 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.1	2.8
10°-20°	744.2	7.2
20°-30°	963.9	9.4
30°-40°	943.9	9.2
40°-50°	722.5	7.0
50°-60°	481.4	4.7
60°-70°	262.7	2.6
70°-80°	109.5	1.1
80°-90°	31.0	0.3
90°-100°	421.5	4.1
100°-110°	1199.2	11.7
110°-120°	1149.0	11.2
120°-130°	909.4	8.8
130°-140°	729.9	7.1
140°-150°	571.4	5.6
150°-160°	418.1	4.1
160°-170°	259.0	2.5
170°-180°	87.9	0.9
0°-30°	1994.2	19.4
0°-40°	2938.1	28.6
0°-60°	4142.1	40.3
0°-90°	4545.3	44.2
90°-120°	2769.7	26.9
90°-150°	4980.4	48.4
90°-180°	5745.0	55.8
0°-180°	10290.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3119	3119	3119	3119	3119	
5°	3069	3038	3058	3065	3075	285
15°	2595	2586	2655	2728	2774	725
25°	1983	1989	2091	2182	2279	912
35°	1402	1408	1503	1604	1718	871
45°	840	856	913	982	1072	655
55°	483	503	532	553	598	438
65°	242	262	286	250	227	252
75°	122	122	111	76	52	130
85°	34	34	32	20	12	37
90°	0	0	0	0	0	4
95°	46	182	816	282	174	52
105°	186	283	1222	2159	2052	197
115°	346	419	927	1963	2305	341
125°	489	542	884	1468	1755	438
135°	598	648	874	1240	1402	461
145°	705	741	881	1073	1169	440
155°	805	824	902	970	1009	372
165°	890	893	913	932	946	250
175°	932	927	923	918	911	88
180°	925	925	925	925	925	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3119.2	3119.2	3119.2	3119.2	3119.2
2.5°	3126.9	3099.1	3106.1	3105.9	3097.3
5°	3068.6	3037.8	3057.6	3064.7	3075.4
7.5°	2954.7	2931.4	2967.6	2994.4	3016.0
10°	2866.0	2846.0	2892.0	2931.0	2959.1
12.5°	2763.1	2746.2	2803.3	2855.6	2892.3
15°	2595.0	2585.7	2655.3	2727.5	2774.3
17.5°	2415.2	2410.6	2490.5	2574.8	2634.7
20°	2292.6	2291.2	2378.8	2466.6	2536.2
22.5°	2168.8	2171.8	2263.8	2355.1	2434.3
25°	1983.2	1988.6	2091.4	2182.5	2278.9
27.5°	1811.6	1814.0	1920.3	2016.5	2119.3
30°	1694.4	1701.1	1805.3	1904.9	2012.0
32.5°	1577.3	1585.0	1687.0	1790.0	1899.2
35°	1401.5	1408.2	1502.8	1604.0	1717.7
37.5°	1220.3	1229.4	1313.4	1409.0	1520.9
40°	1103.2	1116.5	1190.8	1280.8	1390.6
42.5°	990.4	1007.0	1075.8	1161.3	1260.3
45°	840.4	856.4	912.9	982.0	1071.7
47.5°	711.2	729.6	773.0	832.5	909.1
50°	637.8	655.2	695.3	739.4	811.6
52.5°	573.2	590.6	626.3	660.3	721.8
55°	483.1	503.2	532.4	552.6	598.1
57.5°	409.2	428.5	451.7	460.8	488.3
60°	360.0	381.4	402.4	401.4	416.1
62.5°	315.1	333.3	354.2	339.7	340.5
65°	242.3	262.3	286.1	250.0	227.2
67.5°	195.7	200.0	224.5	174.3	147.3
70°	173.8	173.8	180.7	135.0	112.2
72.5°	153.0	153.0	146.7	109.8	86.0
75°	121.8	121.8	110.9	76.1	52.0
77.5°	93.9	92.8	84.9	56.8	37.8
80°	75.3	75.3	68.4	44.8	30.1
82.5°	58.9	58.9	53.1	35.0	22.4
85°	34.2	34.2	31.5	20.3	12.3
87.5°	12.0	12.0	10.9	6.5	5.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.1	74.6	173.0	50.4	38.0
95°	45.7	181.5	815.9	282.4	174.1
97.5°	84.1	212.7	1256.6	899.2	616.2
100°	110.8	231.1	1352.2	1369.7	1055.1
102.5°	140.3	251.0	1331.1	1753.2	1478.5
105°	186.4	282.7	1222.1	2158.7	2052.1
107.5°	233.2	319.5	1094.8	2273.0	2367.9
110°	265.5	346.3	1021.6	2229.2	2442.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	296.5	373.2	972.4	2125.8	2429.8
115°	346.4	418.6	926.7	1963.1	2305.3
117.5°	390.4	458.1	899.6	1785.3	2147.7
120°	425.5	482.3	896.8	1683.7	2031.0
122.5°	453.7	510.4	889.8	1594.5	1917.0
125°	488.8	542.1	884.5	1467.8	1754.9
127.5°	527.2	577.0	881.7	1392.1	1628.7
130°	546.9	596.7	877.5	1339.3	1545.7
132.5°	568.0	616.5	877.5	1298.2	1488.0
135°	597.9	647.7	873.9	1239.8	1401.5
137.5°	626.0	674.5	873.6	1190.5	1330.1
140°	647.1	697.0	872.2	1149.5	1283.6
142.5°	671.0	712.6	876.4	1116.9	1237.2
145°	705.1	741.2	881.0	1073.1	1169.4
147.5°	734.3	769.4	888.7	1028.8	1112.0
150°	759.6	783.7	891.5	1014.2	1072.6
152.5°	779.3	804.8	894.3	994.4	1048.7
155°	805.4	824.3	902.1	969.8	1009.3
157.5°	837.7	849.1	903.8	958.6	986.8
160°	854.6	863.2	910.9	950.1	974.2
162.5°	864.4	874.4	912.3	942.9	961.5
165°	889.8	893.2	912.6	932.3	946.0
167.5°	907.0	903.9	920.7	929.6	935.1
170°	912.6	910.9	917.9	919.8	926.7
172.5°	925.3	919.4	922.1	917.0	922.5
175°	932.0	926.8	923.2	917.7	910.9
177.5°	934.8	926.5	922.1	916.5	917.9
180°	924.9	924.9	924.9	924.9	924.9

(END OF REPORT)