

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: P522004

Luminaire Tested: SQ4-WB-125U-125D-92765-1D-UNV-STD-W-4\_3000K

Issue Date: 5-5-2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P522004  
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\_3000K  
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 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9606.0 lumens  
Efficiency: N/A  
Efficacy: 98.8 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

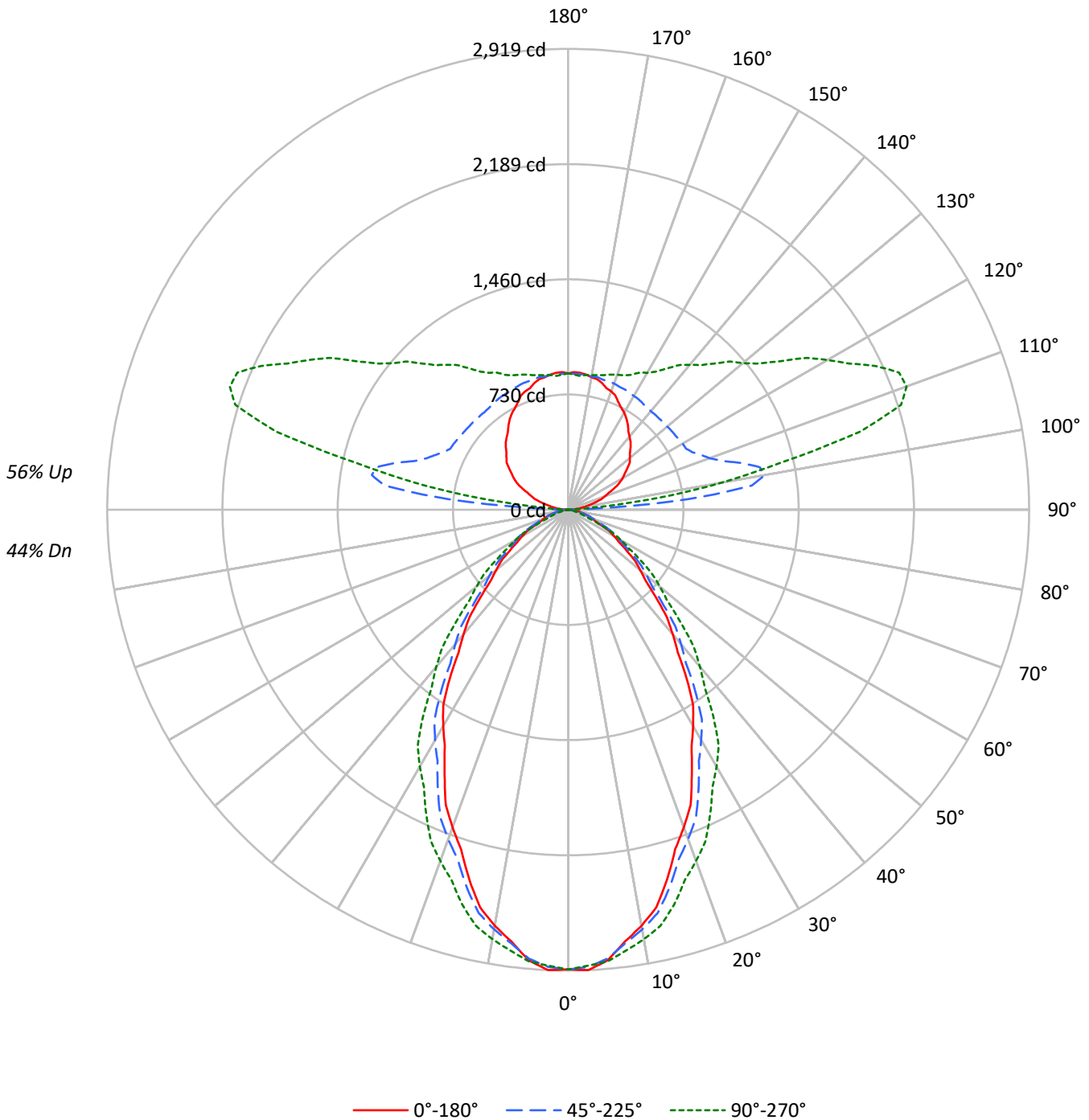
Input Watts (W): 97.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	26864	26864	26864
5°	26528	26434	26588
10°	25065	25291	25878
15°	23138	23675	24737
20°	21011	21802	23244
25°	18846	19873	21656
30°	16851	17953	20008
35°	14736	15800	18059
40°	12403	13387	15634
45°	10236	11119	13053
50°	8546	9315	10874
55°	7255	7994	8980
60°	6200	6931	7167
65°	4936	5829	4630
70°	4378	4548	2827
75°	4053	3689	1729
80°	3735	3395	1493
85°	3377	3112	1217

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 13053 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.1	2.8
10°-20°	694.7	7.2
20°-30°	899.8	9.4
30°-40°	881.1	9.2
40°-50°	674.5	7.0
50°-60°	449.4	4.7
60°-70°	245.2	2.6
70°-80°	102.2	1.1
80°-90°	28.9	0.3
90°-100°	393.4	4.1
100°-110°	1119.5	11.7
110°-120°	1072.5	11.2
120°-130°	848.9	8.8
130°-140°	681.4	7.1
140°-150°	533.4	5.6
150°-160°	390.3	4.1
160°-170°	241.8	2.5
170°-180°	82.0	0.9
0°-30°	1861.5	19.4
0°-40°	2742.7	28.6
0°-60°	3866.5	40.3
0°-90°	4242.9	44.2
90°-120°	2585.4	26.9
90°-150°	4649.1	48.4
90°-180°	5363.0	55.8
0°-180°	9606.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2912	2912	2912	2912	2912	
5°	2864	2836	2854	2861	2871	266
15°	2422	2414	2479	2546	2590	676
25°	1851	1856	1952	2037	2127	851
35°	1308	1314	1403	1497	1603	813
45°	784	800	852	917	1000	612
55°	451	470	497	516	558	409
65°	226	245	267	233	212	235
75°	114	114	104	71	48	121
85°	32	32	29	19	12	35
90°	0	0	0	0	0	3
95°	43	170	762	264	162	49
105°	174	264	1141	2015	1916	184
115°	323	391	865	1832	2152	318
125°	456	506	826	1370	1638	408
135°	558	605	816	1157	1308	431
145°	658	692	822	1002	1092	411
155°	752	769	842	905	942	348
165°	831	834	852	870	883	234
175°	870	865	862	857	850	82
180°	863	863	863	863	863	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2911.7	2911.7	2911.7	2911.7	2911.7
2.5°	2918.9	2892.9	2899.4	2899.3	2891.3
5°	2864.4	2835.7	2854.2	2860.8	2870.8
7.5°	2758.1	2736.4	2770.2	2795.1	2815.4
10°	2675.4	2656.6	2699.6	2736.0	2762.2
12.5°	2579.3	2563.5	2616.8	2665.7	2699.9
15°	2422.4	2413.6	2478.6	2546.0	2589.8
17.5°	2254.5	2250.3	2324.8	2403.5	2459.4
20°	2140.0	2138.8	2220.5	2302.5	2367.4
22.5°	2024.5	2027.3	2113.2	2198.4	2272.4
25°	1851.3	1856.3	1952.2	2037.3	2127.3
27.5°	1691.1	1693.3	1792.5	1882.3	1978.3
30°	1581.7	1587.9	1685.2	1778.2	1878.1
32.5°	1472.3	1479.6	1574.8	1670.9	1772.8
35°	1308.3	1314.5	1402.8	1497.2	1603.4
37.5°	1139.1	1147.6	1226.0	1315.3	1419.7
40°	1029.8	1042.3	1111.5	1195.6	1298.1
42.5°	924.5	940.0	1004.2	1084.0	1176.4
45°	784.5	799.5	852.2	916.7	1000.4
47.5°	663.9	681.1	721.6	777.1	848.6
50°	595.4	611.6	649.0	690.2	757.6
52.5°	535.1	551.3	584.6	616.4	673.8
55°	451.0	469.7	497.0	515.8	558.3
57.5°	382.0	400.0	421.6	430.1	455.9
60°	336.0	356.0	375.6	374.7	388.4
62.5°	294.1	311.1	330.7	317.1	317.9
65°	226.1	244.9	267.0	233.3	212.1
67.5°	182.7	186.7	209.5	162.7	137.5
70°	162.3	162.3	168.6	126.0	104.8
72.5°	142.8	142.8	137.0	102.5	80.2
75°	113.7	113.7	103.5	71.0	48.5
77.5°	87.6	86.6	79.2	53.0	35.3
80°	70.3	70.3	63.9	41.8	28.1
82.5°	54.9	54.9	49.6	32.7	21.0
85°	31.9	31.9	29.4	19.0	11.5
87.5°	11.2	11.2	10.2	6.1	5.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.1	69.6	161.5	47.0	35.5
95°	42.7	169.5	761.6	263.6	162.5
97.5°	78.5	198.5	1173.0	839.3	575.2
100°	103.4	215.8	1262.3	1278.6	984.9
102.5°	131.0	234.3	1242.6	1636.6	1380.1
105°	174.0	263.9	1140.8	2015.1	1915.6
107.5°	217.7	298.2	1022.0	2121.8	2210.4
110°	247.9	323.3	953.7	2080.9	2279.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	276.7	348.3	907.7	1984.4	2268.1
115°	323.4	390.8	865.0	1832.5	2151.9
117.5°	364.4	427.6	839.8	1666.5	2004.8
120°	397.2	450.2	837.1	1571.7	1895.9
122.5°	423.5	476.5	830.6	1488.4	1789.5
125°	456.3	506.1	825.6	1370.1	1638.1
127.5°	492.1	538.6	823.0	1299.5	1520.3
130°	510.5	557.0	819.1	1250.2	1442.8
132.5°	530.2	575.4	819.1	1211.8	1389.0
135°	558.1	604.6	815.8	1157.4	1308.2
137.5°	584.3	629.6	815.5	1111.3	1241.6
140°	604.0	650.6	814.2	1073.1	1198.2
142.5°	626.4	665.2	818.1	1042.6	1154.9
145°	658.2	691.9	822.4	1001.7	1091.6
147.5°	685.5	718.2	829.6	960.4	1038.0
150°	709.1	731.6	832.2	946.7	1001.3
152.5°	727.5	751.2	834.8	928.2	978.9
155°	751.8	769.4	842.1	905.3	942.2
157.5°	782.0	792.6	843.7	894.9	921.2
160°	797.7	805.8	850.3	886.9	909.4
162.5°	806.9	816.2	851.6	880.2	897.5
165°	830.6	833.8	851.9	870.3	883.1
167.5°	846.7	843.8	859.5	867.8	872.9
170°	851.9	850.3	856.8	858.6	865.0
172.5°	863.7	858.3	860.8	856.0	861.1
175°	870.0	865.1	861.8	856.7	850.3
177.5°	872.6	864.9	860.8	855.5	856.8
180°	863.4	863.4	863.4	863.4	863.4

(END OF REPORT)