

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521986

Luminaire Tested: **SQ4-WB-125U-075D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521986  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-125U-075D-93050-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

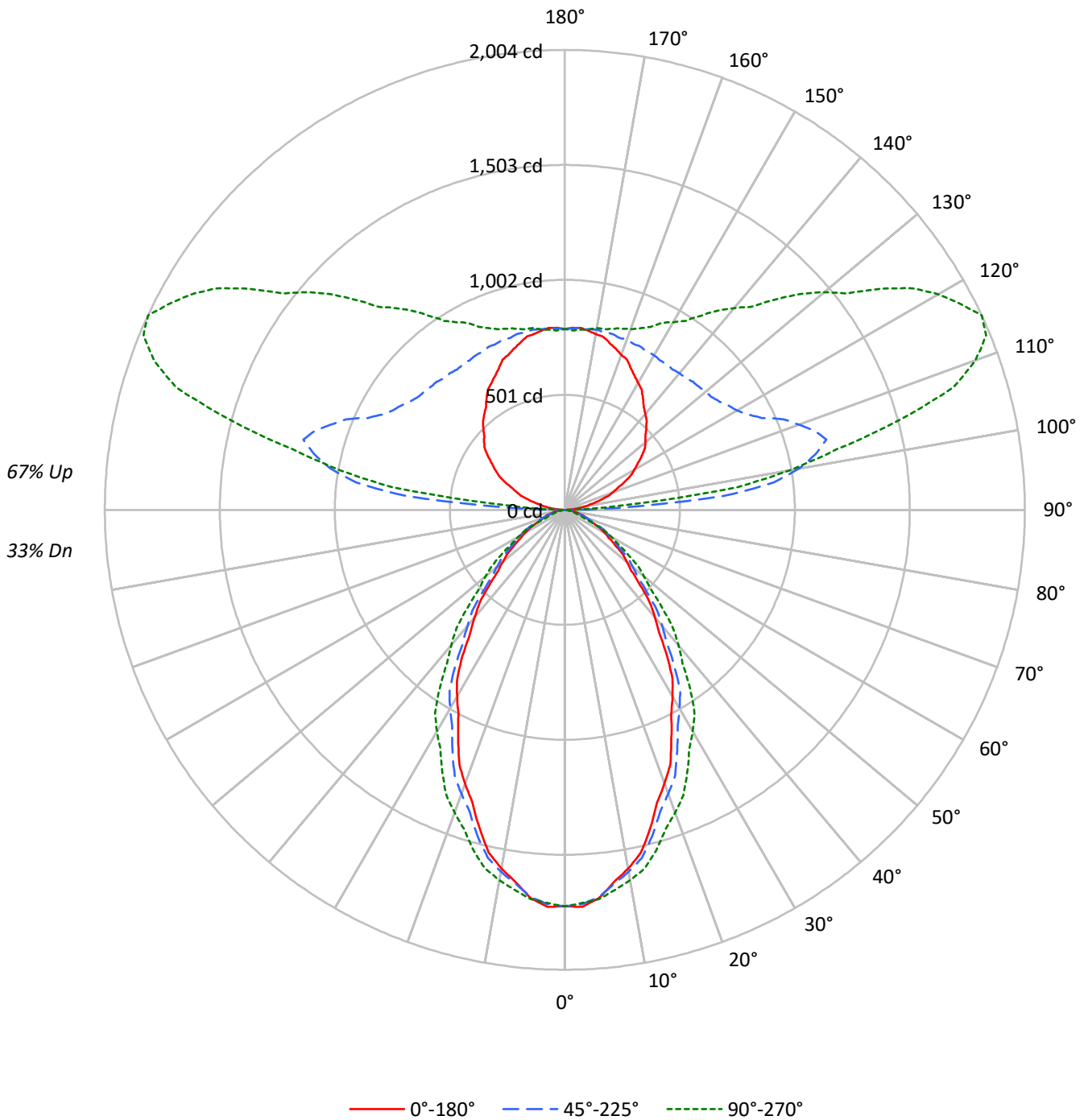
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7617.6 lumens  
Efficiency: N/A  
Efficacy: 104.5 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-Indirect

Input Watts (W): 72.9  
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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33		
1	95	91	87	84	85	82	79	77	66	64	62	51	50	48	37	36	36	29		
2	87	80	75	70	78	73	68	64	59	55	53	46	43	42	33	32	31	26		
3	80	71	64	59	72	65	59	54	52	48	45	41	38	36	30	29	28	23		
4	73	63	56	51	66	58	52	47	47	43	39	37	34	32	28	26	24	20		
5	68	57	49	44	61	52	45	41	42	38	34	34	30	28	25	23	22	18		
6	62	51	44	38	56	47	40	36	38	34	30	31	27	25	23	21	20	16		
7	58	46	39	34	52	43	36	32	35	30	27	28	25	22	22	19	18	15		
8	54	42	35	30	49	39	32	28	32	27	24	26	23	20	20	18	16	14		
9	50	39	32	27	45	36	29	25	30	25	22	24	21	18	19	16	15	13		
10	47	36	29	24	43	33	27	23	27	23	20	22	19	17	17	15	14	12		

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

	0°	45°	90°
0°	15936	15936	15936
5°	15738	15681	15773
10°	14869	15004	15351
15°	13726	14045	14674
20°	12464	12934	13789
25°	11180	11789	12847
30°	9996	10650	11870
35°	8741	9373	10713
40°	7358	7942	9275
45°	6072	6596	7744
50°	5070	5526	6452
55°	4303	4742	5327
60°	3678	4111	4251
65°	2930	3458	2746
70°	2598	2698	1678
75°	2406	2189	1027
80°	2216	2014	887
85°	2001	1842	720



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.4	2.1
10°-20°	412.1	5.4
20°-30°	533.8	7.0
30°-40°	522.7	6.9
40°-50°	400.1	5.3
50°-60°	266.6	3.5
60°-70°	145.5	1.9
70°-80°	60.6	0.8
80°-90°	17.2	0.2
90°-100°	406.1	5.3
100°-110°	981.4	12.9
110°-120°	1046.8	13.7
120°-130°	847.8	11.1
130°-140°	656.4	8.6
140°-150°	500.7	6.6
150°-160°	362.5	4.8
160°-170°	223.3	2.9
170°-180°	75.6	1.0
0°-30°	1104.3	14.5
0°-40°	1627.0	21.4
0°-60°	2293.7	30.1
0°-90°	2517.0	33.0
90°-120°	2434.3	32.0
90°-150°	4439.2	58.3
90°-180°	5101.0	67.0
0°-180°	7617.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1699	1682	1693	1697	1703	158
15°	1437	1432	1470	1510	1536	401
25°	1098	1101	1158	1209	1262	505
35°	776	780	832	888	951	482
45°	465	474	506	544	594	363
55°	268	279	295	306	331	243
65°	134	145	158	138	126	139
75°	68	68	61	42	29	72
85°	19	19	17	11	7	21
90°	0	0	0	0	0	3
95°	40	203	696	452	317	45
105°	157	271	1180	1526	1507	166
115°	287	367	948	1797	2004	284
125°	409	471	822	1429	1678	365
135°	502	561	789	1127	1296	388
145°	594	638	774	958	1033	371
155°	681	710	784	848	879	314
165°	752	764	794	806	818	212
175°	796	793	796	789	788	75
180°	788	788	788	788	788	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1727.3	1727.3	1727.3	1727.3	1727.3
2.5°	1731.6	1716.1	1720.0	1719.9	1715.2
5°	1699.3	1682.2	1693.2	1697.1	1703.1
7.5°	1636.2	1623.3	1643.3	1658.2	1670.2
10°	1587.1	1576.0	1601.5	1623.1	1638.6
12.5°	1530.1	1520.8	1552.4	1581.3	1601.7
15°	1437.0	1431.8	1470.4	1510.4	1536.3
17.5°	1337.4	1334.9	1379.1	1425.8	1459.0
20°	1269.5	1268.8	1317.3	1365.9	1404.4
22.5°	1201.0	1202.6	1253.6	1304.2	1348.1
25°	1098.2	1101.2	1158.1	1208.6	1262.0
27.5°	1003.2	1004.5	1063.4	1116.7	1173.6
30°	938.3	942.0	999.7	1054.9	1114.2
32.5°	873.4	877.7	934.2	991.2	1051.7
35°	776.1	779.8	832.2	888.2	951.2
37.5°	675.8	680.8	727.3	780.3	842.2
40°	610.9	618.3	659.4	709.3	770.1
42.5°	548.4	557.6	595.7	643.1	697.9
45°	465.4	474.3	505.5	543.8	593.5
47.5°	393.8	404.0	428.1	461.0	503.4
50°	353.2	362.8	385.0	409.4	449.5
52.5°	317.4	327.1	346.8	365.6	399.7
55°	267.5	278.7	294.8	306.0	331.2
57.5°	226.6	237.3	250.1	255.2	270.4
60°	199.3	211.2	222.8	222.3	230.4
62.5°	174.5	184.6	196.2	188.1	188.6
65°	134.2	145.3	158.4	138.4	125.8
67.5°	108.4	110.8	124.3	96.5	81.6
70°	96.3	96.3	100.0	74.7	62.2
72.5°	84.7	84.7	81.2	60.8	47.6
75°	67.5	67.5	61.4	42.1	28.8
77.5°	52.0	51.4	47.0	31.4	20.9
80°	41.7	41.7	37.9	24.8	16.7
82.5°	32.6	32.6	29.4	19.4	12.4
85°	18.9	18.9	17.4	11.3	6.8
87.5°	6.7	6.7	6.1	3.6	3.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.3	109.9	258.9	125.9	85.4
95°	40.0	203.2	695.7	452.4	317.0
97.5°	71.1	225.1	916.3	882.8	757.8
100°	95.1	238.7	1037.8	1095.5	992.7
102.5°	117.8	250.9	1117.9	1272.6	1211.6
105°	156.8	271.0	1179.6	1526.2	1506.6
107.5°	195.2	294.7	1143.2	1729.6	1775.6
110°	221.9	314.9	1084.5	1817.2	1903.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	248.6	335.1	1032.4	1838.7	1986.5
115°	287.0	366.9	947.7	1796.6	2003.8
117.5°	325.0	400.4	898.0	1700.0	1942.7
120°	350.4	420.5	865.9	1624.2	1878.7
122.5°	377.1	442.0	845.9	1546.7	1797.3
125°	408.8	470.8	822.5	1428.9	1678.5
127.5°	440.1	498.5	806.2	1329.1	1548.3
130°	458.8	515.9	800.9	1259.6	1474.9
132.5°	476.2	535.9	792.8	1209.4	1392.2
135°	502.2	560.9	789.2	1126.7	1296.4
137.5°	526.9	586.0	777.5	1070.7	1198.6
140°	545.6	599.4	777.5	1030.4	1147.9
142.5°	564.3	618.1	770.8	995.3	1094.5
145°	594.0	638.0	774.2	957.7	1032.8
147.5°	621.7	664.4	772.2	914.4	976.4
150°	639.0	676.5	777.5	895.4	944.3
152.5°	657.7	693.9	776.2	875.3	919.0
155°	680.7	710.1	784.2	848.3	879.3
157.5°	708.4	733.5	782.5	838.0	856.2
160°	719.1	740.3	789.2	824.5	837.6
162.5°	736.5	755.0	786.5	820.4	828.2
165°	752.5	763.9	794.2	806.1	817.5
167.5°	772.2	779.7	792.2	805.2	805.5
170°	777.5	782.4	797.5	796.0	804.2
172.5°	786.8	790.4	793.5	797.1	792.2
175°	795.8	792.6	795.8	789.1	787.5
177.5°	794.2	794.2	791.5	788.7	782.2
180°	787.5	787.5	787.5	787.5	787.5

(END OF REPORT)