

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

(formerly Eaton)

Brand: CORELITE

Report Number: P519638

Luminaire Tested: **SQ4-WB-150U-125D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519638  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-150U-125D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

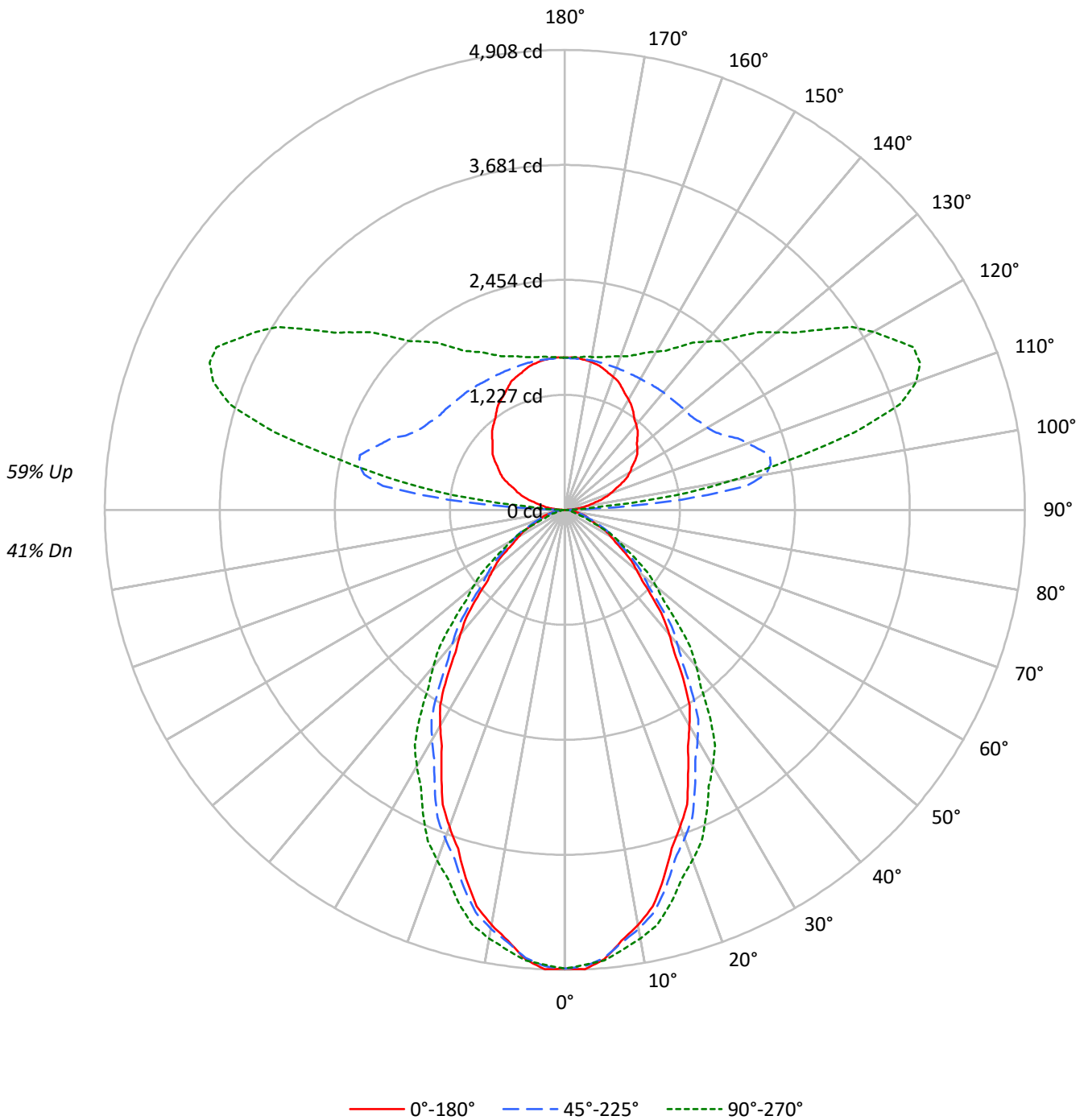
Lumens per Lamp: N/A  
Luminaire Lumens: 17605.2 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 167.8  
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	0
RCR																		
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41
1	97	93	89	86	88	85	82	79	70	68	66	56	55	53	43	43	42	36
2	89	82	76	72	81	75	70	66	62	59	56	50	48	46	39	38	37	32
3	82	73	66	61	74	67	61	57	56	52	48	45	43	40	36	34	32	28
4	75	65	58	52	68	60	54	49	50	46	42	41	38	35	33	31	29	25
5	69	59	51	46	63	54	48	43	45	41	37	37	34	31	30	28	26	22
6	64	53	45	40	59	49	42	38	41	36	33	34	31	28	28	25	23	20
7	59	48	41	35	54	45	38	33	38	33	29	31	28	25	25	23	21	18
8	55	44	37	32	51	41	34	30	35	30	26	29	25	23	24	21	19	17
9	52	40	33	28	47	37	31	27	32	27	24	27	23	21	22	19	18	15
10	48	37	30	26	44	34	28	24	30	25	22	25	21	19	21	18	16	14

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

	0°	45°	90°
0°	22583	22583	22583
5°	22301	22222	22351
10°	21070	21261	21754
15°	19451	19902	20794
20°	17663	18327	19540
25°	15843	16706	18204
30°	14165	15092	16820
35°	12387	13283	15182
40°	10426	11254	13142
45°	8604	9347	10973
50°	7184	7831	9142
55°	6099	6720	7550
60°	5212	5826	6025
65°	4150	4900	3892
70°	3679	3824	2375
75°	3408	3101	1454
80°	3137	2853	1257
85°	2842	2615	1022



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	449.0	2.6
10°-20°	1167.9	6.6
20°-30°	1512.8	8.6
30°-40°	1481.4	8.4
40°-50°	1133.9	6.4
50°-60°	755.6	4.3
60°-70°	412.3	2.3
70°-80°	171.8	1.0
80°-90°	52.0	0.3
90°-100°	754.6	4.3
100°-110°	2040.2	11.6
110°-120°	2145.0	12.2
120°-130°	1742.3	9.9
130°-140°	1366.7	7.8
140°-150°	1049.0	6.0
150°-160°	754.4	4.3
160°-170°	460.8	2.6
170°-180°	155.4	0.9
0°-30°	3129.8	17.8
0°-40°	4611.2	26.2
0°-60°	6500.7	36.9
0°-90°	7136.9	40.5
90°-120°	4939.8	28.1
90°-150°	9097.7	51.7
90°-180°	10468.0	59.5
0°-180°	17605.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4895	4895	4895	4895	4895	
5°	4816	4768	4799	4810	4827	448
15°	4073	4058	4167	4281	4354	1137
25°	3112	3121	3282	3425	3576	1431
35°	2200	2210	2359	2517	2696	1367
45°	1319	1344	1433	1541	1682	1029
55°	758	790	836	867	939	688
65°	380	412	449	392	357	395
75°	191	191	174	119	82	204
85°	54	54	49	32	19	58
90°	4	10	23	24	23	10
95°	117	411	1255	649	386	123
105°	379	586	2263	3339	3202	399
115°	668	816	1877	3634	4102	659
125°	914	1047	1692	2855	3354	815
135°	1096	1226	1646	2305	2609	847
145°	1274	1370	1624	1973	2124	797
155°	1438	1495	1610	1770	1828	663
165°	1566	1581	1617	1680	1688	441
175°	1625	1624	1618	1639	1636	154
180°	1624	1624	1624	1624	1624	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4895.4	4895.4	4895.4	4895.4	4895.4
2.5°	4907.5	4863.8	4874.8	4874.5	4861.1
5°	4815.9	4767.6	4798.8	4809.9	4826.7
7.5°	4637.2	4600.7	4657.4	4699.4	4733.5
10°	4498.0	4466.5	4538.8	4600.0	4644.1
12.5°	4336.5	4310.0	4399.7	4481.7	4539.3
15°	4072.7	4058.0	4167.2	4280.6	4354.1
17.5°	3790.5	3783.3	3908.6	4040.9	4135.0
20°	3598.0	3595.9	3733.3	3871.1	3980.4
22.5°	3403.8	3408.4	3552.9	3696.2	3820.5
25°	3112.5	3120.9	3282.2	3425.3	3576.5
27.5°	2843.2	2846.9	3013.7	3164.7	3326.1
30°	2659.3	2669.8	2833.3	2989.6	3157.6
32.5°	2475.4	2487.6	2647.7	2809.3	2980.6
35°	2199.6	2210.1	2358.6	2517.3	2695.8
37.5°	1915.2	1929.5	2061.3	2211.3	2386.9
40°	1731.3	1752.3	1868.8	2010.2	2182.4
42.5°	1554.3	1580.4	1688.4	1822.5	1977.9
45°	1318.9	1344.1	1432.8	1541.2	1681.9
47.5°	1116.1	1145.1	1213.2	1306.6	1426.7
50°	1001.0	1028.3	1091.2	1160.4	1273.8
52.5°	899.6	926.9	983.0	1036.3	1132.9
55°	758.3	789.8	835.6	867.3	938.7
57.5°	642.3	672.5	708.9	723.2	766.4
60°	564.9	598.5	631.5	629.9	653.0
62.5°	494.5	523.0	555.9	533.2	534.4
65°	380.2	411.7	448.9	392.3	356.6
67.5°	307.2	313.9	352.3	273.6	231.1
70°	272.8	272.8	283.5	211.8	176.1
72.5°	240.2	240.2	230.3	172.3	134.9
75°	191.2	191.2	174.0	119.4	81.6
77.5°	147.4	145.7	133.2	89.1	59.3
80°	118.1	118.1	107.4	70.4	47.3
82.5°	92.4	92.4	83.3	55.0	35.2
85°	53.7	53.7	49.4	31.9	19.3
87.5°	19.6	21.0	21.7	15.2	13.1
90°	3.5	10.3	22.7	24.4	22.7
92.5°	49.6	180.9	356.9	154.9	112.2
95°	117.1	411.0	1254.9	649.4	386.3
97.5°	188.1	471.4	1956.1	1618.8	1188.8
100°	241.2	495.8	2174.2	2267.5	1833.4
102.5°	290.1	529.7	2251.1	2759.3	2434.6
105°	379.3	586.0	2263.3	3338.6	3201.9
107.5°	461.8	650.4	2164.4	3700.0	3745.4
110°	526.1	697.0	2076.3	3797.0	3990.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	583.4	743.4	1995.2	3777.6	4102.0
115°	667.6	816.3	1877.1	3633.7	4102.0
117.5°	750.1	889.6	1799.1	3413.9	3944.7
120°	800.5	937.2	1753.0	3256.1	3797.9
122.5°	848.0	982.0	1725.0	3087.0	3632.9
125°	914.1	1047.4	1691.8	2854.9	3353.9
127.5°	974.9	1105.8	1672.2	2665.5	3104.4
130°	1008.5	1143.5	1663.9	2548.5	2945.0
132.5°	1043.4	1177.0	1655.5	2442.9	2807.9
135°	1095.8	1225.7	1646.4	2305.2	2609.4
137.5°	1148.6	1271.3	1638.7	2193.5	2441.3
140°	1185.0	1299.5	1635.9	2121.5	2342.0
142.5°	1219.9	1327.6	1630.3	2056.6	2249.7
145°	1274.1	1369.8	1623.7	1973.1	2123.5
147.5°	1323.4	1408.2	1616.0	1897.5	2013.1
150°	1359.7	1434.9	1613.2	1856.5	1948.7
152.5°	1393.3	1458.9	1611.8	1818.3	1894.2
155°	1438.4	1494.8	1609.7	1770.0	1828.1
157.5°	1485.2	1524.5	1610.0	1736.4	1774.7
160°	1511.8	1544.3	1611.4	1715.2	1742.5
162.5°	1532.8	1559.8	1612.8	1698.2	1718.7
165°	1566.0	1581.4	1616.7	1679.8	1688.3
167.5°	1588.7	1599.3	1617.0	1664.0	1668.1
170°	1602.7	1607.8	1618.4	1656.9	1656.9
172.5°	1613.9	1614.9	1618.4	1648.4	1647.1
175°	1625.4	1623.7	1618.4	1639.3	1635.9
177.5°	1629.3	1625.2	1618.1	1632.0	1627.9
180°	1623.7	1623.7	1623.7	1623.7	1623.7

(END OF REPORT)