

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: P519182

Luminaire Tested: **SQ4-WB-075U-050D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519182  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-050D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

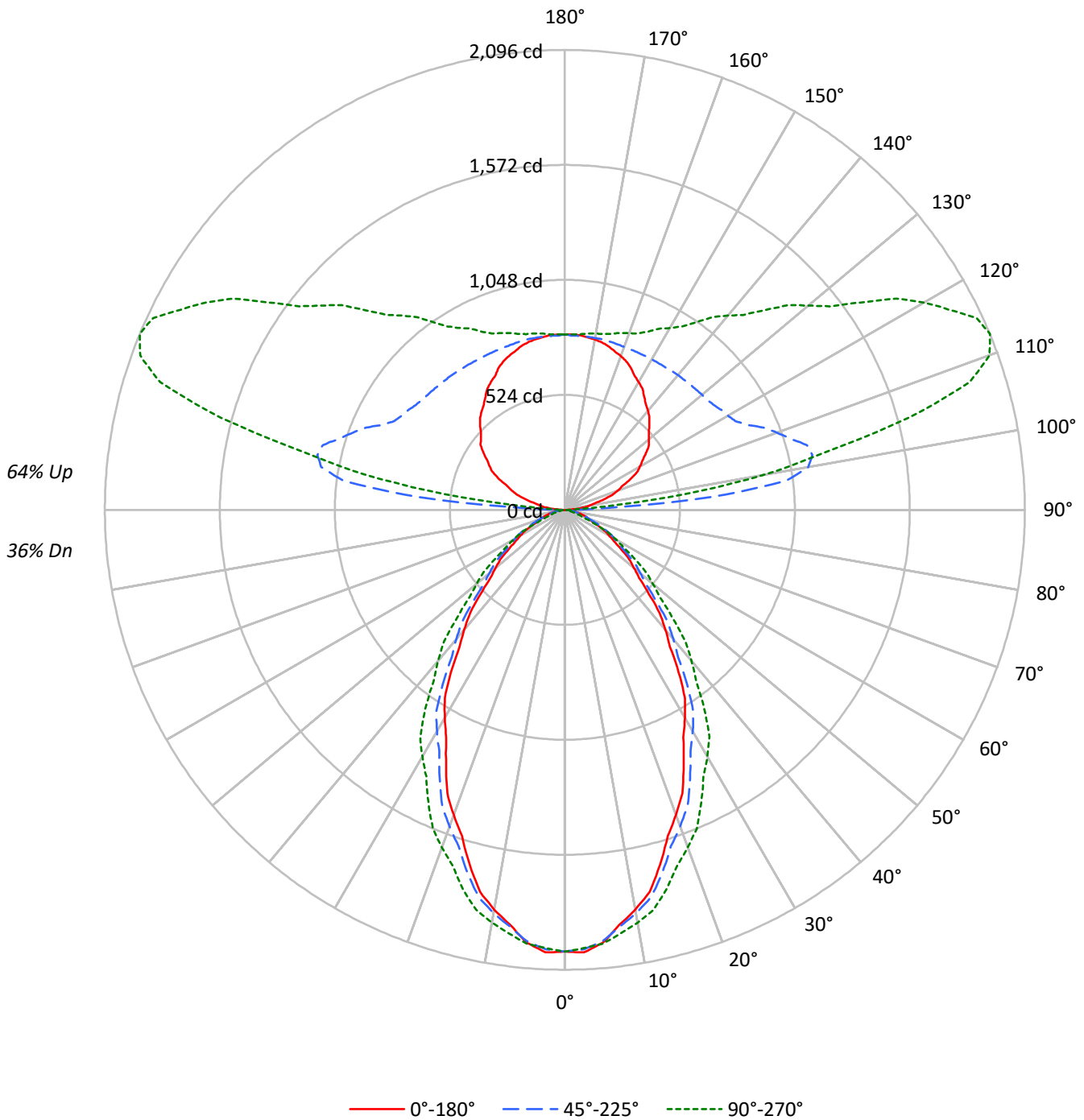
Lumens per Lamp: N/A  
Luminaire Lumens: 8138.5 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 71.8  
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



TEST NUMBER: P519182  
CATALOG NUMBER: SQ4-WB-075U-050D-935-1D-UNV-STD-W-8

### Luminous Intensity Polar Plot





TEST NUMBER: P519182

CATALOG NUMBER: SQ4-WB-075U-050D-935-1D-UNV-STD-W-8

**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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36
1	95	92	88	85	86	83	80	78	67	65	64	53	52	50	40	39	38	32
2	88	81	75	71	79	74	69	65	60	57	54	47	45	43	36	35	33	28
3	80	72	65	60	73	66	60	55	54	50	46	43	40	38	33	31	29	25
4	74	64	57	51	67	59	52	48	48	44	40	39	36	33	30	28	26	22
5	68	58	50	45	62	53	46	41	44	39	35	35	32	29	27	25	23	20
6	63	52	44	39	57	48	41	36	40	35	31	32	29	26	25	23	21	18
7	58	47	40	35	53	43	37	32	36	31	28	29	26	23	23	21	19	16
8	54	43	36	31	49	40	33	29	33	28	25	27	24	21	21	19	17	15
9	51	39	32	28	46	36	30	26	31	26	23	25	22	19	20	18	16	14
10	47	36	29	25	43	33	27	23	28	24	20	23	20	18	19	16	15	13

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

	0°	45°	90°
0°	9288	9288	9288
5°	9172	9140	9192
10°	8666	8745	8947
15°	8000	8185	8553
20°	7265	7538	8037
25°	6516	6871	7487
30°	5826	6207	6918
35°	5095	5463	6244
40°	4288	4628	5405
45°	3539	3845	4513
50°	2955	3221	3760
55°	2509	2764	3105
60°	2144	2396	2478
65°	1707	2015	1601
70°	1513	1573	977
75°	1401	1276	599
80°	1291	1174	515
85°	1170	1074	423



TEST NUMBER: P519182

CATALOG NUMBER: SQ4-WB-075U-050D-935-1D-UNV-STD-W-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.7	2.3
10°-20°	480.4	5.9
20°-30°	622.2	7.6
30°-40°	609.3	7.5
40°-50°	466.4	5.7
50°-60°	310.8	3.8
60°-70°	169.6	2.1
70°-80°	70.7	0.9
80°-90°	22.0	0.3
90°-100°	376.7	4.6
100°-110°	1036.3	12.7
110°-120°	1069.6	13.1
120°-130°	857.0	10.5
130°-140°	673.1	8.3
140°-150°	515.8	6.3
150°-160°	370.9	4.6
160°-170°	226.8	2.8
170°-180°	76.4	0.9
0°-30°	1287.2	15.8
0°-40°	1896.5	23.3
0°-60°	2673.7	32.9
0°-90°	2935.9	36.1
90°-120°	2482.6	30.5
90°-150°	4528.5	55.6
90°-180°	5203.0	63.9
0°-180°	8138.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2013	2013	2013	2013	2013	
5°	1981	1961	1974	1978	1985	184
15°	1675	1669	1714	1760	1791	468
25°	1280	1284	1350	1409	1471	589
35°	905	909	970	1035	1109	562
45°	542	553	589	634	692	423
55°	312	325	344	357	386	283
65°	156	169	185	161	147	163
75°	79	79	72	49	34	84
85°	22	22	20	13	8	24
90°	2	7	12	15	15	5
95°	56	206	666	285	182	59
105°	185	285	1142	1739	1623	195
115°	328	399	916	1824	2070	324
125°	452	515	831	1406	1646	403
135°	545	605	807	1137	1286	421
145°	630	674	795	968	1043	395
155°	714	737	790	870	896	328
165°	771	781	794	826	831	217
175°	799	800	795	805	804	76
180°	799	799	799	799	799	

TEST NUMBER: P519182

CATALOG NUMBER: SQ4-WB-075U-050D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2013.4	2013.4	2013.4	2013.4	2013.4
2.5°	2018.4	2000.4	2004.9	2004.8	1999.3
5°	1980.7	1960.9	1973.7	1978.2	1985.1
7.5°	1907.2	1892.2	1915.5	1932.8	1946.8
10°	1850.0	1837.0	1866.8	1891.9	1910.0
12.5°	1783.5	1772.6	1809.5	1843.3	1866.9
15°	1675.0	1669.0	1713.9	1760.5	1790.8
17.5°	1559.0	1556.0	1607.5	1662.0	1700.7
20°	1479.8	1478.9	1535.5	1592.1	1637.1
22.5°	1399.9	1401.8	1461.2	1520.2	1571.3
25°	1280.1	1283.6	1349.9	1408.8	1471.0
27.5°	1169.4	1170.9	1239.5	1301.6	1368.0
30°	1093.7	1098.0	1165.3	1229.6	1298.7
32.5°	1018.1	1023.1	1089.0	1155.4	1225.9
35°	904.7	909.0	970.0	1035.3	1108.7
37.5°	787.7	793.6	847.8	909.5	981.7
40°	712.1	720.7	768.6	826.8	897.6
42.5°	639.3	650.0	694.4	749.6	813.5
45°	542.4	552.8	589.3	633.9	691.8
47.5°	459.0	471.0	499.0	537.4	586.8
50°	411.7	422.9	448.8	477.2	523.9
52.5°	370.0	381.2	404.3	426.2	465.9
55°	311.9	324.8	343.7	356.7	386.1
57.5°	264.2	276.6	291.5	297.4	315.2
60°	232.4	246.2	259.7	259.1	268.6
62.5°	203.4	215.1	228.6	219.3	219.8
65°	156.4	169.3	184.6	161.3	146.7
67.5°	126.3	129.1	144.9	112.5	95.1
70°	112.2	112.2	116.6	87.1	72.4
72.5°	98.8	98.8	94.7	70.9	55.5
75°	78.6	78.6	71.6	49.1	33.6
77.5°	60.6	59.9	54.8	36.6	24.4
80°	48.6	48.6	44.2	28.9	19.4
82.5°	38.0	38.0	34.3	22.6	14.5
85°	22.1	22.1	20.3	13.1	8.0
87.5°	8.1	9.1	9.4	7.3	6.6
90°	1.7	6.7	11.9	15.3	15.3
92.5°	23.4	100.2	173.7	66.7	54.7
95°	56.1	205.6	666.1	284.8	181.8
97.5°	91.4	228.0	1016.4	783.2	552.6
100°	117.2	241.8	1126.5	1137.1	927.7
102.5°	141.7	258.3	1155.1	1410.7	1218.6
105°	185.2	284.9	1141.8	1739.0	1622.7
107.5°	226.7	317.7	1076.9	1899.8	1934.3
110°	256.6	339.6	1028.0	1939.7	2059.4



TEST NUMBER: P519182

CATALOG NUMBER: SQ4-WB-075U-050D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	283.8	364.2	979.0	1914.0	2096.1
115°	327.9	399.4	915.8	1823.7	2069.6
117.5°	370.1	435.9	875.7	1697.0	1975.1
120°	395.9	459.0	858.1	1602.0	1889.5
122.5°	419.0	482.1	845.8	1518.8	1791.6
125°	452.0	515.1	830.9	1405.6	1646.5
127.5°	483.2	543.4	821.0	1311.1	1522.4
130°	499.5	561.0	815.6	1255.0	1447.7
132.5°	518.6	580.1	811.5	1205.6	1379.7
135°	545.4	605.2	807.1	1136.7	1286.3
137.5°	570.6	626.1	803.4	1081.1	1204.4
140°	589.6	641.1	802.0	1044.1	1155.4
142.5°	605.9	653.4	799.3	1011.1	1106.5
145°	630.4	673.6	795.2	968.5	1043.3
147.5°	656.6	693.8	793.2	930.8	990.6
150°	672.9	706.1	791.8	910.1	956.6
152.5°	687.8	718.4	790.4	892.2	930.8
155°	713.6	736.9	790.1	870.5	895.5
157.5°	732.3	751.3	790.1	852.7	870.0
160°	745.9	760.9	790.1	843.1	856.4
162.5°	756.8	769.1	791.5	834.9	845.5
165°	771.4	781.4	793.5	825.9	830.9
167.5°	781.6	789.2	795.2	818.3	819.7
170°	788.4	793.4	795.2	815.6	815.6
172.5°	793.8	796.2	795.2	811.5	810.2
175°	798.6	800.3	795.2	805.4	803.7
177.5°	800.0	800.0	794.5	802.6	800.0
180°	798.6	798.6	798.6	798.6	798.6

(END OF REPORT)