

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: P564911

Luminaire Tested: **SQ4-PW1-100U-050D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564911  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-100U-050D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

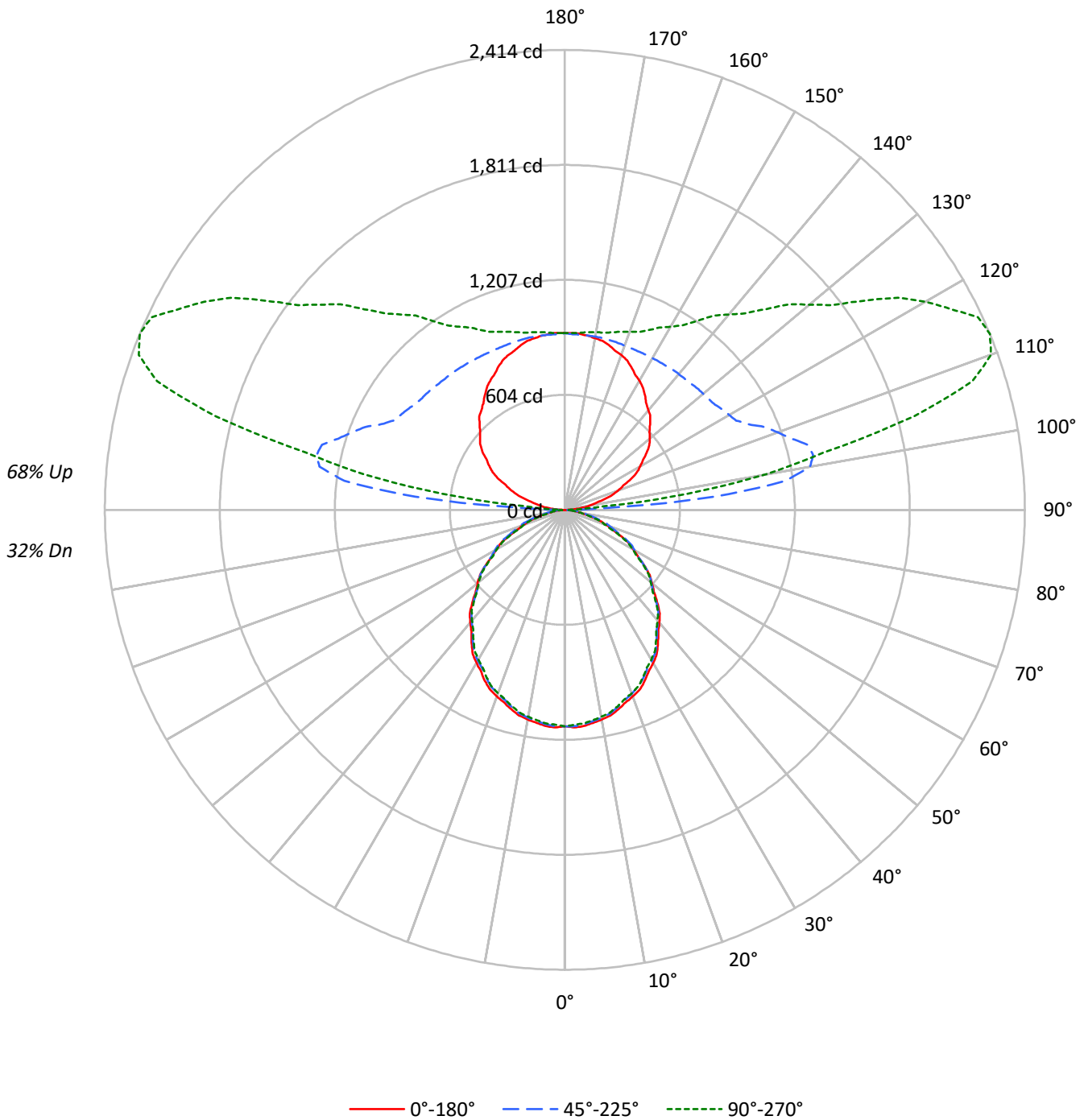
Lumens per Lamp: N/A  
Luminaire Lumens: 8918.5 lumens  
Efficiency: N/A  
Efficacy: 138.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 64.3  
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	86	78	72	67	77	71	66	62	57	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	38	35	33	28	26	24	20
4	71	61	53	47	64	55	49	43	44	40	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	35	31	31	27	24	22	20	18	15
6	60	48	41	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	8

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

	0°	45°	90°
0°	6992	6992	6992
5°	7037	6981	6950
10°	6981	6925	6887
15°	6906	6830	6805
20°	6824	6719	6706
25°	6729	6607	6586
30°	6587	6487	6445
35°	6400	6310	6272
40°	6200	6103	6079
45°	5959	5880	5854
50°	5712	5664	5626
55°	5445	5445	5359
60°	5113	5211	5026
65°	4679	4912	4563
70°	4124	4521	4016
75°	3522	4047	3427
80°	2731	3404	2766
85°	1764	2618	2329



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.0	1.2
10°-20°	302.2	3.4
20°-30°	448.3	5.0
30°-40°	524.5	5.9
40°-50°	522.2	5.9
50°-60°	450.9	5.1
60°-70°	324.6	3.6
70°-80°	170.2	1.9
80°-90°	44.1	0.5
90°-100°	434.2	4.9
100°-110°	1198.7	13.4
110°-120°	1236.3	13.9
120°-130°	993.5	11.1
130°-140°	780.8	8.8
140°-150°	598.8	6.7
150°-160°	430.4	4.8
160°-170°	263.2	3.0
170°-180°	88.7	1.0
0°-30°	857.5	9.6
0°-40°	1382.0	15.5
0°-60°	2355.1	26.4
0°-90°	2894.0	32.4
90°-120°	2869.2	32.2
90°-150°	5242.2	58.8
90°-180°	6024.0	67.5
0°-180°	8918.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1137	1137	1137	1137	1137	
5°	1140	1127	1131	1128	1126	108
15°	1085	1071	1073	1071	1069	306
25°	992	975	974	968	970	456
35°	852	840	840	832	835	533
45°	685	679	676	674	673	529
55°	508	507	508	501	500	453
65°	322	331	338	324	314	319
75°	148	162	170	159	144	159
85°	25	33	37	35	33	33
90°	3	6	12	13	15	5
95°	64	235	788	324	211	68
105°	214	330	1319	2013	1896	227
115°	383	462	1062	2103	2391	376
125°	525	598	963	1629	1912	467
135°	632	700	936	1320	1488	489
145°	733	784	924	1124	1209	459
155°	826	854	917	1008	1040	381
165°	895	906	921	957	964	252
175°	927	929	923	936	933	88
180°	927	927	927	927	927	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1136.7	1136.7	1136.7	1136.7	1136.7
2.5°	1143.1	1133.7	1136.7	1134.2	1128.7
5°	1139.7	1127.0	1130.7	1127.6	1125.7
7.5°	1128.1	1116.3	1119.1	1115.8	1114.7
10°	1117.7	1105.9	1108.7	1104.6	1102.7
12.5°	1105.7	1093.1	1095.8	1091.8	1090.6
15°	1084.6	1070.9	1072.6	1070.6	1068.6
17.5°	1060.2	1046.3	1046.6	1043.4	1043.0
20°	1042.6	1027.9	1026.5	1022.6	1024.5
22.5°	1023.3	1007.9	1006.5	1001.0	1003.7
25°	991.5	974.8	973.5	967.5	970.5
27.5°	954.6	938.2	938.2	929.9	933.0
30°	927.4	911.7	913.4	903.4	907.4
32.5°	898.5	884.4	885.3	875.4	879.3
35°	852.3	840.5	840.3	832.3	835.3
37.5°	805.0	794.6	793.0	788.4	789.2
40°	772.2	763.3	760.1	757.1	757.1
42.5°	737.7	729.7	726.5	724.3	723.5
45°	685.0	679.2	676.0	674.0	673.0
47.5°	632.9	627.5	624.7	623.3	622.3
50°	596.9	593.0	591.9	588.9	587.9
52.5°	560.8	558.5	557.4	553.6	552.6
55°	507.8	506.8	507.8	500.7	499.7
57.5°	452.5	454.0	457.3	447.8	445.5
60°	415.6	419.5	423.6	412.5	408.6
62.5°	378.0	384.2	390.0	377.2	371.8
65°	321.5	331.3	337.5	324.2	313.5
67.5°	267.0	279.1	286.6	272.3	260.2
70°	229.3	243.1	251.4	237.0	223.3
72.5°	196.5	211.8	218.5	205.0	191.3
75°	148.2	161.9	170.3	158.9	144.2
77.5°	105.2	118.1	125.0	115.1	103.0
80°	77.1	90.8	96.1	87.9	78.1
82.5°	54.7	66.0	69.7	64.7	58.1
85°	25.0	32.9	37.1	35.0	33.0
87.5°	7.0	13.1	17.6	17.9	19.0
90°	3.0	5.9	11.9	13.4	14.8
92.5°	26.7	110.8	198.2	72.3	56.4
95°	63.8	235.0	787.8	323.8	210.7
97.5°	105.6	263.2	1166.9	898.4	650.7
100°	136.5	280.1	1307.0	1316.2	1069.6
102.5°	166.2	299.3	1334.3	1626.3	1392.4
105°	213.6	329.7	1318.9	2013.4	1895.9
107.5°	264.1	367.3	1245.3	2200.2	2243.1
110°	299.7	392.5	1188.3	2240.3	2379.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	331.7	421.1	1134.9	2208.6	2414.0
115°	382.7	462.5	1062.2	2102.8	2391.4
117.5°	427.3	506.7	1014.4	1953.8	2282.3
120°	456.9	535.3	995.4	1853.0	2183.7
122.5°	485.4	560.3	980.0	1758.9	2072.2
125°	525.2	597.7	962.8	1629.4	1912.3
127.5°	559.0	631.5	952.7	1519.9	1763.9
130°	581.5	654.1	948.0	1453.0	1674.9
132.5°	602.9	672.0	943.2	1396.7	1597.8
135°	632.0	700.2	936.1	1319.7	1488.0
137.5°	664.6	726.7	932.5	1255.1	1398.7
140°	682.4	743.3	930.2	1211.9	1338.1
142.5°	702.6	758.9	927.8	1173.6	1284.7
145°	732.9	783.6	924.2	1123.5	1209.1
147.5°	761.9	806.3	921.0	1081.2	1147.7
150°	783.3	819.6	919.8	1056.0	1109.7
152.5°	799.9	833.9	918.6	1034.4	1078.8
155°	826.3	853.9	916.8	1008.0	1040.0
157.5°	850.7	871.8	917.1	988.8	1010.6
160°	864.9	883.8	918.3	978.0	994.0
162.5°	876.8	893.3	919.5	968.4	980.9
165°	894.6	906.2	921.3	957.0	964.3
167.5°	908.2	915.2	922.8	950.1	952.4
170°	915.3	921.1	922.8	946.5	946.5
172.5°	921.3	924.7	922.8	941.7	940.6
175°	927.2	928.7	922.8	936.0	933.1
177.5°	929.6	928.4	922.5	930.7	928.4
180°	927.2	927.2	927.2	927.2	927.2

(END OF REPORT)