

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: P564778

Luminaire Tested: **SQ4-PW1-075U-100D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564778  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PW1-075U-100D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

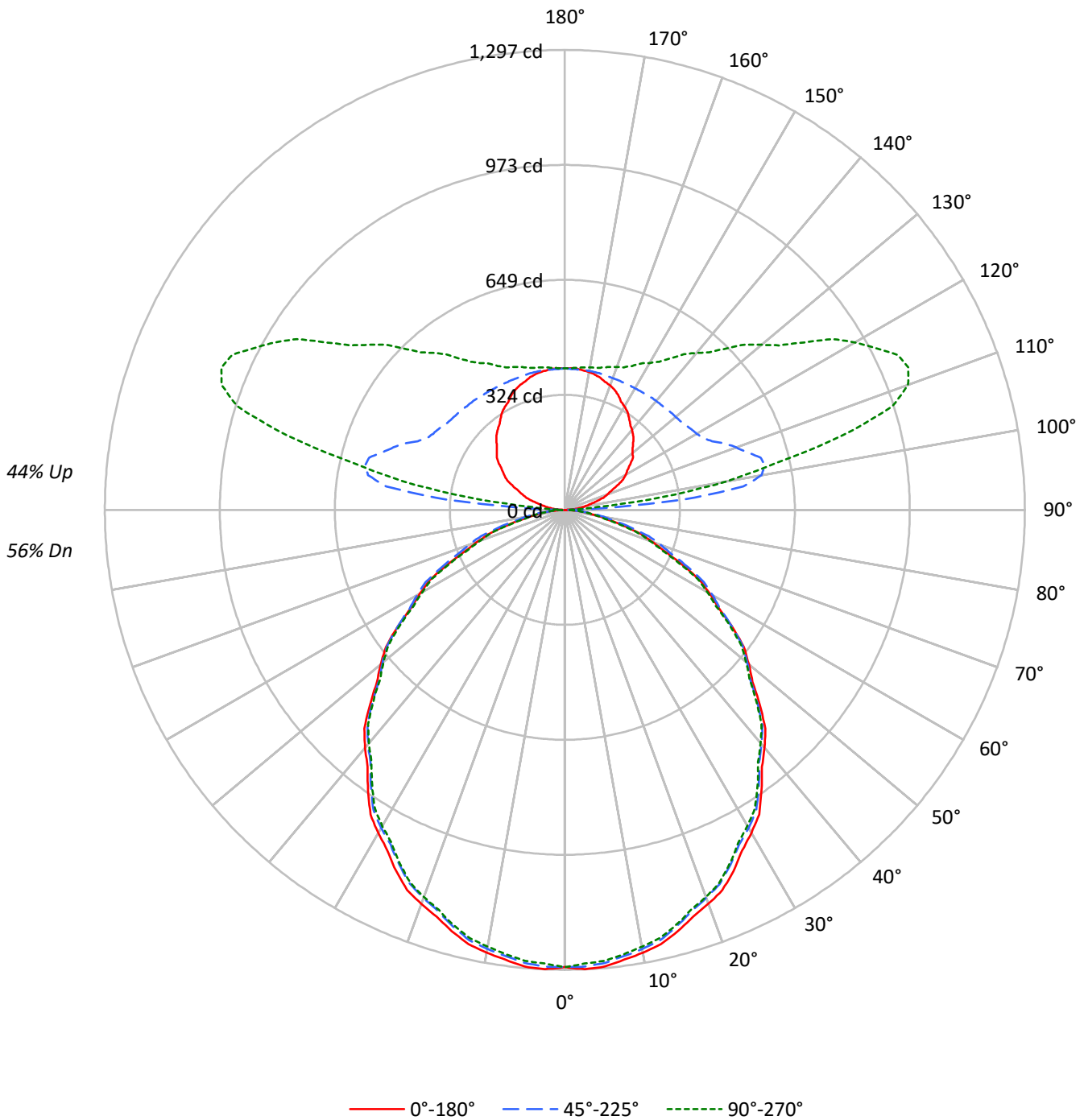
Lumens per Lamp: N/A  
Luminaire Lumens: 5883.0 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 51.3  
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



TEST NUMBER: P564778  
CATALOG NUMBER: SQ4-PW1-075U-100D-935-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P564778

CATALOG NUMBER: SQ4-PW1-075U-100D-935-1D-UNV-STD-W-4

**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	109	109	109	109	101	101	101	101	87	87	87	73	73	73	61	61	61	56
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	55	53	52	47
2	90	83	77	72	84	77	72	67	67	63	59	57	54	51	48	46	44	40
3	83	73	66	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	60	53	48	52	47	43	45	41	37	38	35	32	29
5	69	58	49	43	64	54	47	41	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	28	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	29	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	28	24	44	34	27	22	30	24	20	26	21	18	22	19	16	14

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

	0°	45°	90°
0°	11897	11897	11897
5°	11974	11880	11827
10°	11878	11783	11718
15°	11752	11622	11579
20°	11612	11433	11411
25°	11449	11242	11207
30°	11207	11038	10966
35°	10889	10736	10672
40°	10549	10385	10345
45°	10139	10006	9962
50°	9719	9637	9572
55°	9265	9265	9119
60°	8700	8868	8553
65°	7962	8359	7763
70°	7019	7693	6836
75°	5992	6883	5832
80°	4649	5797	4707
85°	3006	4446	3970



TEST NUMBER: P564778

CATALOG NUMBER: SQ4-PW1-075U-100D-935-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.4	2.1
10°-20°	342.8	5.8
20°-30°	508.5	8.6
30°-40°	595.0	10.1
40°-50°	592.3	10.1
50°-60°	511.5	8.7
60°-70°	368.2	6.3
70°-80°	193.1	3.3
80°-90°	48.9	0.8
90°-100°	188.3	3.2
100°-110°	518.1	8.8
110°-120°	534.8	9.1
120°-130°	428.5	7.3
130°-140°	336.5	5.7
140°-150°	257.9	4.4
150°-160°	185.4	3.2
160°-170°	113.4	1.9
170°-180°	38.2	0.6
0°-30°	972.7	16.5
0°-40°	1567.7	26.6
0°-60°	2671.6	45.4
0°-90°	3281.8	55.8
90°-120°	1241.3	21.1
90°-150°	2264.2	38.5
90°-180°	2601.0	44.2
0°-180°	5883.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1290	1290	1290	1290	1290	
5°	1293	1278	1283	1279	1277	122
15°	1230	1215	1217	1214	1212	347
25°	1125	1106	1104	1098	1101	517
35°	967	954	953	944	948	604
45°	777	770	767	765	764	600
55°	576	575	576	568	567	514
65°	365	376	383	368	356	361
75°	168	184	193	180	164	180
85°	28	37	42	40	38	37
90°	1	3	6	8	8	3
95°	28	103	333	142	91	30
105°	93	142	571	870	811	98
115°	164	200	458	912	1035	162
125°	226	258	415	703	823	202
135°	273	303	404	568	643	210
145°	315	337	398	484	522	198
155°	357	368	395	435	448	164
165°	386	391	397	413	415	109
175°	399	400	398	403	402	38
180°	399	399	399	399	399	

TEST NUMBER: P564778

CATALOG NUMBER: SQ4-PW1-075U-100D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1289.5	1289.5	1289.5	1289.5	1289.5
2.5°	1296.7	1286.1	1289.5	1286.6	1280.4
5°	1292.9	1278.4	1282.7	1279.2	1277.0
7.5°	1279.7	1266.4	1269.5	1265.8	1264.5
10°	1267.9	1254.6	1257.7	1253.1	1250.8
12.5°	1254.3	1240.0	1243.1	1238.5	1237.2
15°	1230.4	1214.8	1216.8	1214.4	1212.2
17.5°	1202.7	1186.9	1187.2	1183.6	1183.1
20°	1182.7	1166.0	1164.5	1160.0	1162.2
22.5°	1160.9	1143.3	1141.8	1135.5	1138.6
25°	1124.7	1105.9	1104.3	1097.5	1100.9
27.5°	1082.9	1064.3	1064.3	1054.8	1058.4
30°	1052.0	1034.3	1036.1	1024.9	1029.3
32.5°	1019.3	1003.3	1004.3	993.1	997.5
35°	966.8	953.5	953.2	944.2	947.5
37.5°	913.2	901.4	899.6	894.4	895.2
40°	875.9	865.9	862.3	858.9	858.9
42.5°	836.9	827.7	824.1	821.6	820.7
45°	777.1	770.4	766.9	764.6	763.5
47.5°	718.0	711.8	708.7	707.1	706.0
50°	677.1	672.7	671.4	668.0	666.9
52.5°	636.2	633.6	632.4	628.0	626.9
55°	576.0	574.9	576.0	568.0	566.9
57.5°	513.3	515.1	518.7	508.0	505.3
60°	471.5	475.9	480.6	468.0	463.5
62.5°	428.8	435.9	442.4	427.9	421.7
65°	364.7	375.8	382.9	367.8	355.6
67.5°	302.9	316.7	325.2	308.9	295.2
70°	260.2	275.7	285.2	268.9	253.4
72.5°	222.9	240.2	247.9	232.5	217.0
75°	168.1	183.7	193.1	180.3	163.6
77.5°	119.3	134.0	141.8	130.6	116.8
80°	87.5	103.0	109.1	99.7	88.6
82.5°	62.0	74.9	79.1	73.4	65.9
85°	28.4	37.3	42.0	39.7	37.5
87.5°	7.4	14.2	18.5	18.8	19.7
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	50.1	86.8	33.3	27.4
95°	28.0	102.8	333.0	142.4	90.9
97.5°	45.7	114.0	508.2	391.6	276.3
100°	58.6	120.9	563.3	568.5	463.9
102.5°	70.9	129.2	577.5	705.3	609.3
105°	92.6	142.4	570.9	869.5	811.3
107.5°	113.3	158.9	538.5	949.9	967.2
110°	128.3	169.8	514.0	969.9	1029.7

TEST NUMBER: P564778

CATALOG NUMBER: SQ4-PW1-075U-100D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	141.9	182.1	489.5	957.0	1048.0
115°	164.0	199.7	457.9	911.8	1034.8
117.5°	185.0	217.9	437.9	848.5	987.5
120°	198.0	229.5	429.0	801.0	944.7
122.5°	209.5	241.1	422.9	759.4	895.8
125°	226.0	257.6	415.4	702.8	823.2
127.5°	241.6	271.7	410.5	655.6	761.2
130°	249.8	280.5	407.8	627.5	723.8
132.5°	259.3	290.0	405.8	602.8	689.9
135°	272.7	302.6	403.5	568.4	643.1
137.5°	285.3	313.0	401.7	540.5	602.2
140°	294.8	320.6	401.0	522.1	577.7
142.5°	303.0	326.7	399.6	505.6	553.2
145°	315.2	336.8	397.6	484.3	521.6
147.5°	328.3	346.9	396.6	465.4	495.3
150°	336.4	353.0	395.9	455.1	478.3
152.5°	343.9	359.2	395.2	446.1	465.4
155°	356.8	368.5	395.1	435.3	447.7
157.5°	366.2	375.6	395.1	426.3	435.0
160°	373.0	380.4	395.1	421.5	428.2
162.5°	378.4	384.5	395.7	417.4	422.7
165°	385.7	390.7	396.8	412.9	415.4
167.5°	390.8	394.6	397.6	409.2	409.8
170°	394.2	396.7	397.6	407.8	407.8
172.5°	396.9	398.1	397.6	405.7	405.1
175°	399.3	400.1	397.6	402.7	401.8
177.5°	400.0	400.0	397.3	401.3	400.0
180°	399.3	399.3	399.3	399.3	399.3

(END OF REPORT)