

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: P564752

Luminaire Tested: **SQ4-PW1-075U-075D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564752  
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-075D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

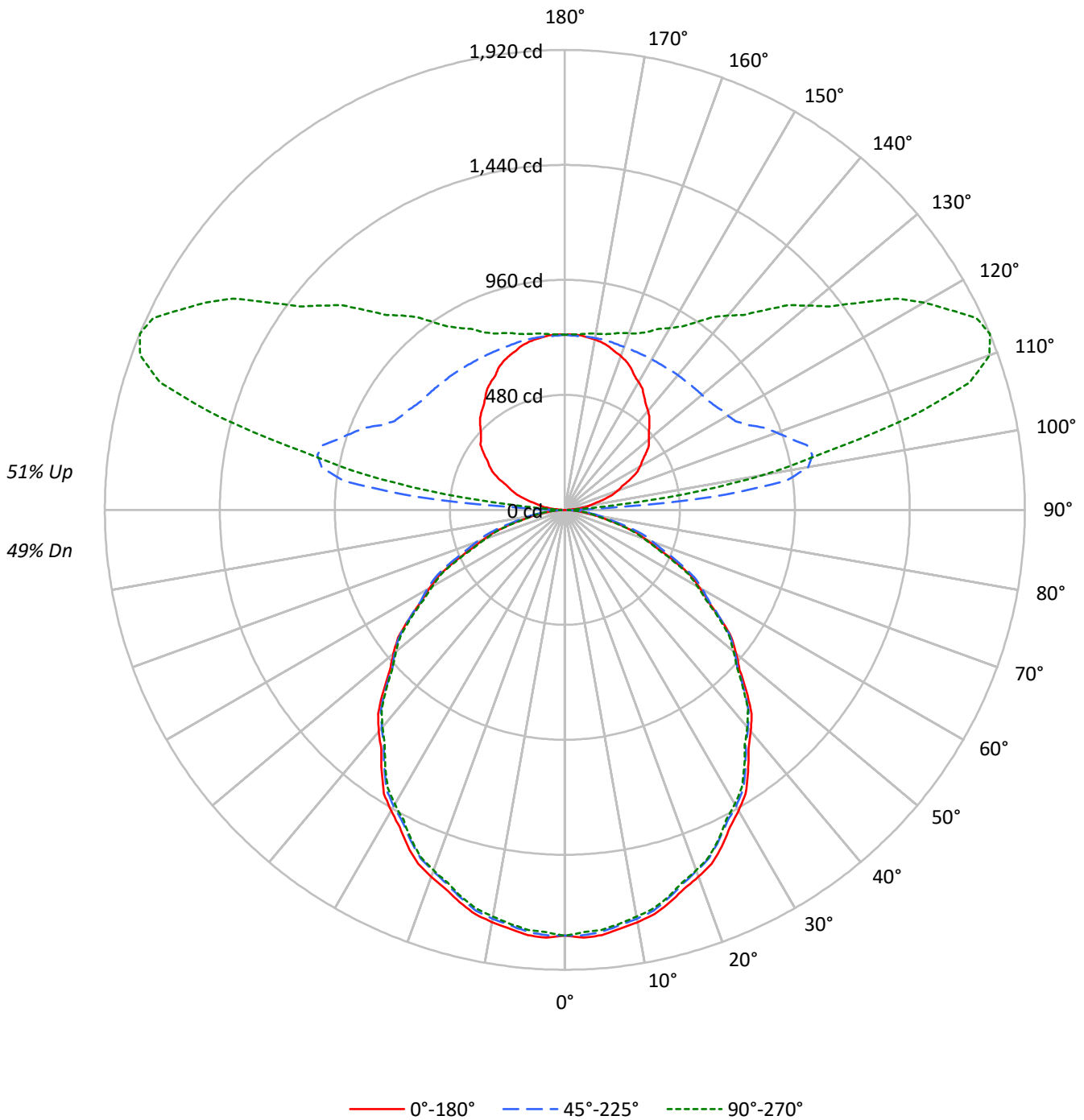
Lumens per Lamp: N/A  
Luminaire Lumens: 9289.1 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 91  
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	59	74	66	60	55	56	51	48	47	43	40	38	36	34	29
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	30	37	31	27	31	26	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

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

	0°	45°	90°
0°	8200	8200	8200
5°	8253	8188	8151
10°	8187	8121	8077
15°	8100	8011	7981
20°	8004	7881	7865
25°	7892	7748	7725
30°	7725	7608	7558
35°	7506	7400	7356
40°	7272	7158	7130
45°	6988	6896	6866
50°	6699	6643	6598
55°	6386	6386	6285
60°	5997	6112	5896
65°	5487	5761	5351
70°	4837	5302	4711
75°	4132	4745	4019
80°	3204	3993	3246
85°	2075	3065	2736



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.4	1.8
10°-20°	472.6	5.1
20°-30°	701.0	7.5
30°-40°	820.2	8.8
40°-50°	816.6	8.8
50°-60°	705.1	7.6
60°-70°	507.6	5.5
70°-80°	266.2	2.9
80°-90°	67.8	0.7
90°-100°	344.9	3.7
100°-110°	949.1	10.2
110°-120°	979.6	10.5
120°-130°	784.8	8.4
130°-140°	616.4	6.6
140°-150°	472.4	5.1
150°-160°	339.7	3.7
160°-170°	207.7	2.2
170°-180°	70.0	0.8
0°-30°	1341.0	14.4
0°-40°	2161.2	23.3
0°-60°	3682.9	39.6
0°-90°	4524.5	48.7
90°-120°	2273.6	24.5
90°-150°	4147.3	44.6
90°-180°	4765.0	51.3
0°-180°	9289.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1778	1778	1778	1778	1778	
5°	1782	1762	1768	1763	1760	169
15°	1696	1675	1677	1674	1671	478
25°	1550	1524	1522	1513	1518	713
35°	1333	1314	1314	1302	1306	833
45°	1071	1062	1057	1054	1052	827
55°	794	792	794	783	782	708
65°	503	518	528	507	490	498
75°	232	253	266	248	226	248
85°	39	51	58	55	52	52
90°	2	6	11	14	14	5
95°	51	188	610	261	166	54
105°	170	261	1046	1593	1486	179
115°	300	366	839	1670	1895	296
125°	414	472	761	1287	1508	369
135°	500	554	739	1041	1178	385
145°	577	617	728	887	956	362
155°	654	675	724	797	820	300
165°	706	716	727	756	761	199
175°	731	733	728	738	736	69
180°	731	731	731	731	731	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1777.6	1777.6	1777.6	1777.6	1777.6
2.5°	1787.6	1772.9	1777.6	1773.6	1765.0
5°	1782.3	1762.4	1768.2	1763.4	1760.3
7.5°	1764.1	1745.7	1750.0	1745.0	1743.1
10°	1747.8	1729.4	1733.7	1727.4	1724.3
12.5°	1729.0	1709.4	1713.7	1707.4	1705.5
15°	1696.1	1674.7	1677.3	1674.1	1671.1
17.5°	1657.9	1636.2	1636.6	1631.6	1631.0
20°	1630.4	1607.4	1605.3	1599.1	1602.2
22.5°	1600.3	1576.1	1574.0	1565.3	1569.6
25°	1550.5	1524.5	1522.3	1513.0	1517.6
27.5°	1492.9	1467.1	1467.2	1454.1	1459.0
30°	1450.3	1425.7	1428.3	1412.8	1418.9
32.5°	1405.1	1383.1	1384.5	1369.0	1375.1
35°	1332.8	1314.4	1314.0	1301.6	1306.2
37.5°	1258.9	1242.6	1240.1	1232.9	1234.1
40°	1207.5	1193.7	1188.7	1184.0	1184.0
42.5°	1153.6	1141.1	1136.1	1132.6	1131.4
45°	1071.2	1062.1	1057.1	1054.0	1052.4
47.5°	989.8	981.2	977.0	974.7	973.2
50°	933.4	927.3	925.6	920.9	919.3
52.5°	877.0	873.4	871.7	865.7	864.2
55°	794.0	792.5	794.0	783.0	781.5
57.5°	707.6	710.0	715.1	700.3	696.6
60°	650.0	656.1	662.5	645.1	639.0
62.5°	591.1	600.9	609.9	589.9	581.4
65°	502.7	518.0	527.8	507.0	490.2
67.5°	417.5	436.5	448.2	425.9	406.9
70°	358.6	380.1	393.1	370.7	349.3
72.5°	307.3	331.2	341.7	320.6	299.1
75°	231.8	253.2	266.2	248.5	225.5
77.5°	164.4	184.7	195.5	180.0	161.0
80°	120.6	142.0	150.3	137.5	122.2
82.5°	85.5	103.3	109.0	101.2	90.8
85°	39.2	51.4	57.9	54.7	51.7
87.5°	10.3	19.8	26.0	26.6	27.9
90°	1.6	6.1	10.9	14.0	14.0
92.5°	21.5	91.8	159.0	61.1	50.1
95°	51.4	188.3	610.0	260.8	166.5
97.5°	83.7	208.8	930.9	717.2	506.1
100°	107.4	221.5	1031.7	1041.4	849.6
102.5°	129.8	236.6	1057.9	1291.9	1116.1
105°	169.6	260.9	1045.7	1592.6	1486.1
107.5°	207.6	291.0	986.3	1739.8	1771.5
110°	235.0	311.1	941.5	1776.5	1886.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	259.9	333.5	896.6	1752.9	1919.6
115°	300.3	365.8	838.8	1670.2	1895.4
117.5°	338.9	399.2	802.0	1554.1	1808.8
120°	362.6	420.4	785.8	1467.2	1730.4
122.5°	383.7	441.6	774.6	1390.9	1640.8
125°	413.9	471.7	760.9	1287.3	1507.9
127.5°	442.6	497.6	751.9	1200.7	1394.3
130°	457.5	513.8	746.9	1149.3	1325.8
132.5°	474.9	531.2	743.2	1104.1	1263.6
135°	499.5	554.3	739.2	1041.0	1178.0
137.5°	522.5	573.4	735.7	990.1	1103.0
140°	540.0	587.1	734.5	956.2	1058.2
142.5°	554.9	598.4	732.0	926.0	1013.3
145°	577.3	616.9	728.3	887.0	955.5
147.5°	601.3	635.4	726.4	852.4	907.2
150°	616.2	646.7	725.2	833.5	876.1
152.5°	629.9	657.9	723.9	817.1	852.4
155°	653.6	674.9	723.6	797.3	820.1
157.5°	670.7	688.0	723.6	780.9	796.7
160°	683.1	696.8	723.6	772.1	784.3
162.5°	693.1	704.4	724.8	764.6	774.3
165°	706.5	715.6	726.7	756.4	760.9
167.5°	715.8	722.8	728.3	749.5	750.7
170°	722.0	726.6	728.3	746.9	746.9
172.5°	727.0	729.2	728.3	743.2	742.0
175°	731.4	732.9	728.3	737.6	736.0
177.5°	732.6	732.6	727.6	735.1	732.6
180°	731.4	731.4	731.4	731.4	731.4

(END OF REPORT)