

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: P564739

Luminaire Tested: **SQ4-PW1-075U-075D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564739  
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-830-1D-UNV-STD-W-6  
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, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

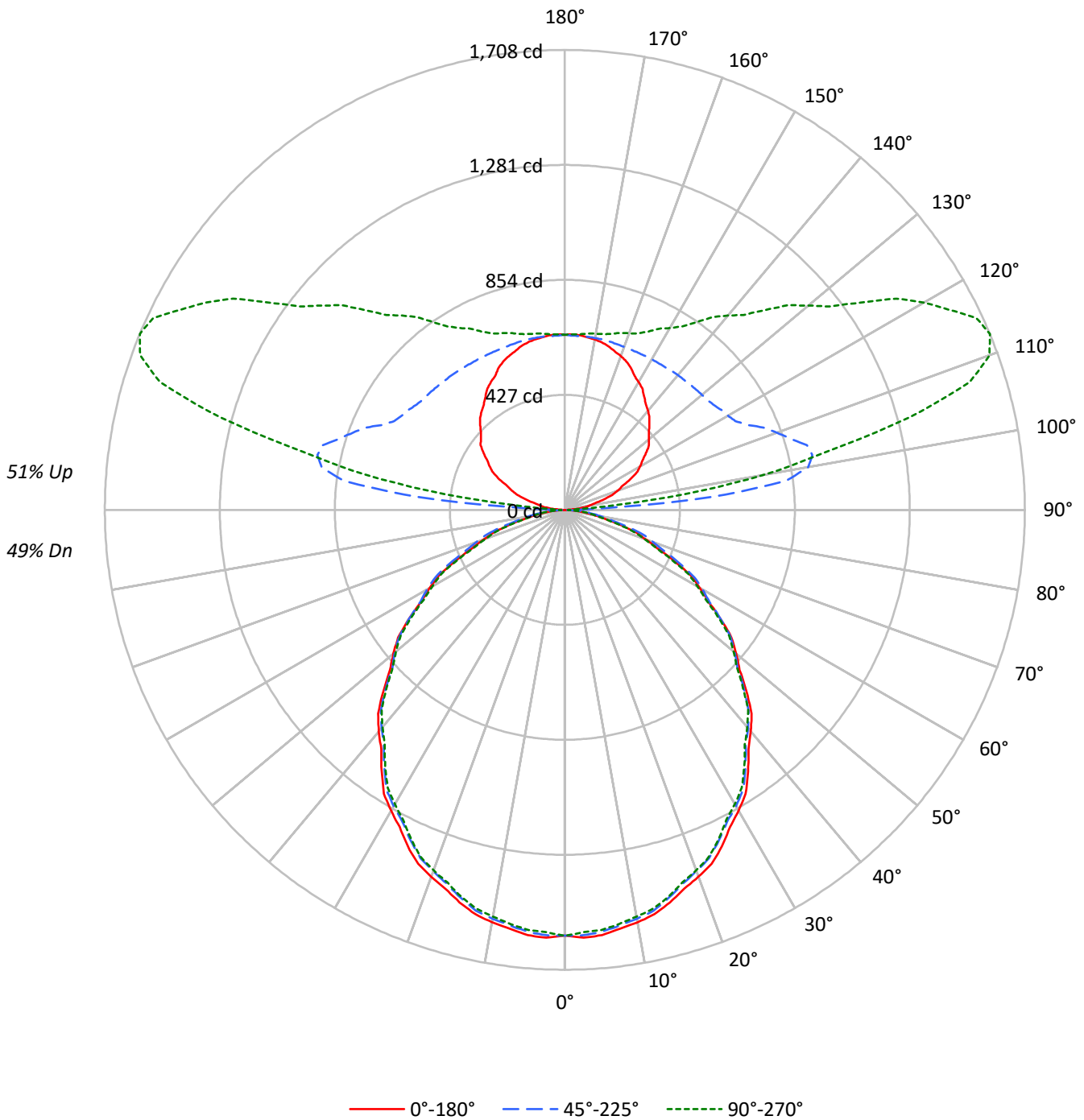
Lumens per Lamp: N/A  
Luminaire Lumens: 8263.8 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 68  
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: P564739  
CATALOG NUMBER: SQ4-PW1-075U-075D-830-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot





TEST NUMBER: P564739

CATALOG NUMBER: SQ4-PW1-075U-075D-830-1D-UNV-STD-W-6

**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°	9727	9727	9727
5°	9789	9712	9669
10°	9711	9633	9581
15°	9608	9502	9466
20°	9494	9348	9329
25°	9361	9191	9163
30°	9163	9025	8965
35°	8903	8778	8725
40°	8625	8491	8457
45°	8290	8181	8144
50°	7946	7879	7826
55°	7575	7575	7455
60°	7113	7251	6993
65°	6509	6833	6347
70°	5739	6289	5588
75°	4900	5630	4767
80°	3801	4739	3850
85°	2456	3642	3246



TEST NUMBER: P564739

CATALOG NUMBER: SQ4-PW1-075U-075D-830-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.9	1.8
10°-20°	420.4	5.1
20°-30°	623.6	7.5
30°-40°	729.7	8.8
40°-50°	726.4	8.8
50°-60°	627.3	7.6
60°-70°	451.5	5.5
70°-80°	236.8	2.9
80°-90°	60.4	0.7
90°-100°	306.9	3.7
100°-110°	844.3	10.2
110°-120°	871.5	10.5
120°-130°	698.2	8.4
130°-140°	548.4	6.6
140°-150°	420.3	5.1
150°-160°	302.2	3.7
160°-170°	184.8	2.2
170°-180°	62.3	0.8
0°-30°	1192.9	14.4
0°-40°	1922.6	23.3
0°-60°	3276.4	39.6
0°-90°	4025.1	48.7
90°-120°	2022.6	24.5
90°-150°	3689.5	44.6
90°-180°	4239.0	51.3
0°-180°	8263.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1581	1581	1581	1581	1581	
5°	1586	1568	1573	1569	1566	150
15°	1509	1490	1492	1489	1487	425
25°	1379	1356	1354	1346	1350	634
35°	1186	1169	1169	1158	1162	741
45°	953	945	940	938	936	735
55°	706	705	706	697	695	630
65°	447	461	470	451	436	443
75°	206	225	237	221	201	221
85°	35	46	52	49	46	46
90°	1	5	10	12	12	4
95°	46	168	543	232	148	48
105°	151	232	930	1417	1322	159
115°	267	325	746	1486	1686	264
125°	368	420	677	1145	1341	328
135°	444	493	658	926	1048	343
145°	514	549	648	789	850	322
155°	581	600	644	709	730	267
165°	628	637	646	673	677	177
175°	651	652	648	656	655	62
180°	651	651	651	651	651	

TEST NUMBER: P564739

CATALOG NUMBER: SQ4-PW1-075U-075D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1581.4	1581.4	1581.4	1581.4	1581.4
2.5°	1590.3	1577.2	1581.4	1577.8	1570.2
5°	1585.5	1567.8	1573.0	1568.8	1566.0
7.5°	1569.4	1553.0	1556.8	1552.3	1550.7
10°	1554.9	1538.5	1542.4	1536.7	1534.0
12.5°	1538.2	1520.7	1524.5	1518.9	1517.3
15°	1508.9	1489.8	1492.2	1489.3	1486.6
17.5°	1474.9	1455.6	1456.0	1451.5	1451.0
20°	1450.4	1430.0	1428.1	1422.6	1425.3
22.5°	1423.6	1402.1	1400.2	1392.5	1396.3
25°	1379.3	1356.2	1354.3	1346.0	1350.1
27.5°	1328.1	1305.2	1305.2	1293.6	1298.0
30°	1290.2	1268.4	1270.7	1256.9	1262.3
32.5°	1250.0	1230.4	1231.7	1217.8	1223.3
35°	1185.7	1169.3	1169.0	1157.9	1162.0
37.5°	1119.9	1105.5	1103.2	1096.8	1097.9
40°	1074.2	1062.0	1057.5	1053.3	1053.3
42.5°	1026.3	1015.1	1010.7	1007.6	1006.5
45°	953.0	944.8	940.5	937.6	936.3
47.5°	880.5	872.9	869.1	867.1	865.8
50°	830.4	824.9	823.4	819.2	817.9
52.5°	780.2	777.0	775.5	770.2	768.8
55°	706.4	705.0	706.4	696.6	695.2
57.5°	629.5	631.7	636.2	623.0	619.7
60°	578.2	583.7	589.4	573.9	568.5
62.5°	525.8	534.5	542.5	524.8	517.2
65°	447.2	460.9	469.5	451.1	436.1
67.5°	371.4	388.3	398.8	378.9	362.0
70°	319.1	338.1	349.7	329.8	310.7
72.5°	273.4	294.6	304.0	285.2	266.1
75°	206.2	225.3	236.9	221.1	200.6
77.5°	146.3	164.3	173.9	160.1	143.2
80°	107.3	126.4	133.8	122.3	108.7
82.5°	76.1	91.9	97.0	90.1	80.8
85°	34.8	45.7	51.6	48.7	46.0
87.5°	9.2	17.6	23.1	23.7	24.8
90°	1.4	5.4	9.7	12.5	12.5
92.5°	19.1	81.6	141.5	54.3	44.6
95°	45.7	167.5	542.7	232.0	148.1
97.5°	74.5	185.7	828.1	638.1	450.2
100°	95.5	197.0	917.8	926.4	755.9
102.5°	115.5	210.5	941.1	1149.3	992.9
105°	150.9	232.1	930.3	1416.8	1322.1
107.5°	184.7	258.9	877.4	1547.8	1576.0
110°	209.0	276.7	837.5	1580.4	1677.8



TEST NUMBER: P564739

CATALOG NUMBER: SQ4-PW1-075U-075D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	231.2	296.7	797.7	1559.4	1707.7
115°	267.2	325.4	746.2	1485.8	1686.1
117.5°	301.5	355.1	713.5	1382.6	1609.2
120°	322.6	374.0	699.1	1305.2	1539.4
122.5°	341.4	392.8	689.1	1237.4	1459.7
125°	368.2	419.7	677.0	1145.2	1341.4
127.5°	393.7	442.7	668.9	1068.2	1240.4
130°	407.0	457.1	664.5	1022.5	1179.5
132.5°	422.5	472.6	661.2	982.2	1124.1
135°	444.4	493.1	657.6	926.1	1048.0
137.5°	464.9	510.1	654.5	880.8	981.2
140°	480.4	522.3	653.4	850.7	941.4
142.5°	493.7	532.4	651.2	823.8	901.5
145°	513.6	548.8	647.9	789.1	850.0
147.5°	534.9	565.2	646.2	758.4	807.1
150°	548.2	575.3	645.1	741.5	779.4
152.5°	560.4	585.3	644.0	726.9	758.4
155°	581.4	600.4	643.7	709.3	729.6
157.5°	596.7	612.1	643.7	694.7	708.8
160°	607.7	619.9	643.7	686.9	697.7
162.5°	616.6	626.6	644.8	680.2	688.9
165°	628.5	636.6	646.5	672.9	677.0
167.5°	636.8	643.0	647.9	666.7	667.8
170°	642.3	646.4	647.9	664.5	664.5
172.5°	646.8	648.7	647.9	661.1	660.1
175°	650.6	652.0	647.9	656.2	654.8
177.5°	651.8	651.8	647.3	653.9	651.8
180°	650.6	650.6	650.6	650.6	650.6

(END OF REPORT)