

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: P564075

Luminaire Tested: **SQ4-PR1-075U-075D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564075  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-075U-075D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

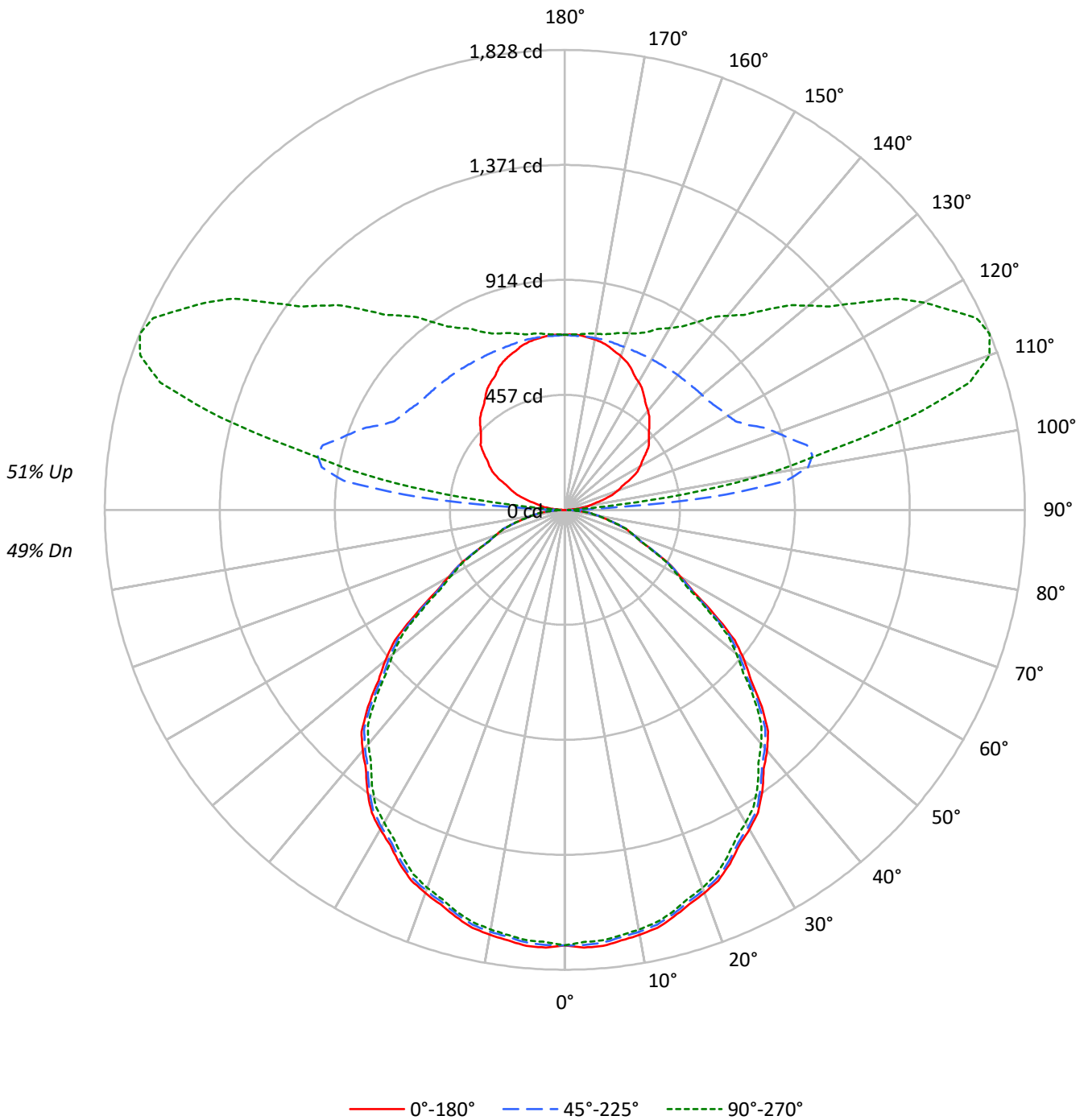
Lumens per Lamp: N/A  
Luminaire Lumens: 8864.9 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

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



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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	94	90	86	90	86	83	80	73	71	68	60	59	57	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	44	42	40	35
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	69	59	53	47	51	45	41	42	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	51	43	38	58	48	41	36	41	35	31	35	30	27	29	25	23	20
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	21	18
8	54	42	35	29	50	39	32	28	34	28	25	29	25	21	24	21	18	16
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	21	17	15	13

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

	0°	45°	90°
0°	10647	10647	10647
5°	10743	10660	10605
10°	10709	10635	10578
15°	10662	10595	10538
20°	10608	10540	10462
25°	10534	10462	10341
30°	10420	10346	10198
35°	10266	10177	10031
40°	10032	9924	9744
45°	9623	9454	9260
50°	8902	8689	8517
55°	7770	7594	7435
60°	6548	6493	6365
65°	5663	5685	5641
70°	5201	5228	5228
75°	4995	4995	5031
80°	4700	4754	4700
85°	3790	4206	4206



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.7	1.8
10°-20°	468.3	5.3
20°-30°	706.4	8.0
30°-40°	841.7	9.5
40°-50°	829.8	9.4
50°-60°	634.2	7.2
60°-70°	392.4	4.4
70°-80°	222.9	2.5
80°-90°	69.6	0.8
90°-100°	328.4	3.7
100°-110°	903.5	10.2
110°-120°	932.6	10.5
120°-130°	747.2	8.4
130°-140°	586.8	6.6
140°-150°	449.7	5.1
150°-160°	323.3	3.6
160°-170°	197.7	2.2
170°-180°	66.6	0.8
0°-30°	1338.4	15.1
0°-40°	2180.1	24.6
0°-60°	3644.1	41.1
0°-90°	4329.0	48.8
90°-120°	2164.4	24.4
90°-150°	3948.2	44.5
90°-180°	4536.0	51.2
0°-180°	8864.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1731	1731	1731	1731	1731	
5°	1740	1721	1726	1720	1718	165
15°	1674	1657	1664	1658	1655	472
25°	1552	1533	1542	1525	1524	714
35°	1367	1351	1355	1337	1336	853
45°	1106	1092	1087	1067	1064	848
55°	725	713	708	696	693	649
65°	389	386	391	388	388	394
75°	210	210	210	212	212	222
85°	54	57	60	60	60	62
90°	2	6	10	13	13	5
95°	49	179	581	248	158	52
105°	162	248	996	1516	1415	170
115°	286	348	798	1590	1804	282
125°	394	449	724	1226	1436	352
135°	476	528	704	991	1121	367
145°	550	587	693	844	910	345
155°	622	642	689	759	781	286
165°	673	681	692	720	724	190
175°	696	698	693	702	701	66
180°	696	696	696	696	696	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1731.0	1731.0	1731.0	1731.0	1731.0
2.5°	1741.7	1726.6	1731.0	1727.2	1719.1
5°	1739.9	1721.0	1726.5	1720.5	1717.6
7.5°	1726.5	1707.9	1713.4	1707.4	1705.6
10°	1714.6	1697.1	1702.7	1696.6	1693.7
12.5°	1701.5	1682.8	1689.5	1682.3	1679.4
15°	1674.3	1656.8	1663.9	1657.9	1654.9
17.5°	1644.5	1625.9	1632.9	1625.9	1622.1
20°	1620.7	1603.2	1610.2	1599.7	1598.3
22.5°	1594.4	1576.9	1584.0	1570.0	1569.7
25°	1552.1	1533.1	1541.6	1525.2	1523.7
27.5°	1501.7	1484.2	1491.2	1474.5	1472.8
30°	1467.1	1449.6	1456.7	1438.7	1435.8
32.5°	1427.7	1411.4	1417.3	1399.4	1397.6
35°	1367.2	1351.2	1355.3	1337.3	1335.9
37.5°	1298.3	1283.7	1286.1	1266.4	1264.9
40°	1249.4	1234.8	1236.0	1215.1	1213.6
42.5°	1195.7	1181.2	1179.9	1159.0	1157.6
45°	1106.3	1091.7	1086.9	1067.4	1064.5
47.5°	1004.3	989.7	980.7	964.9	962.9
50°	930.3	915.8	908.0	894.5	890.1
52.5°	850.4	835.9	829.3	816.9	812.6
55°	724.6	712.9	708.2	696.2	693.3
57.5°	605.0	597.2	595.8	584.1	583.0
60°	532.3	527.9	527.8	517.4	517.4
62.5°	470.2	467.0	469.3	462.5	461.3
65°	389.1	386.2	390.6	387.6	387.6
67.5°	325.0	325.0	327.7	326.5	326.5
70°	289.2	289.2	290.7	290.7	290.7
72.5°	257.0	255.9	259.7	259.7	258.5
75°	210.2	210.2	210.2	211.7	211.7
77.5°	163.7	164.0	165.2	164.9	163.7
80°	132.7	134.2	134.2	132.7	132.7
82.5°	101.7	103.1	103.2	102.8	101.7
85°	53.7	56.6	59.6	59.6	59.6
87.5°	15.8	21.3	25.9	26.5	25.3
90°	1.5	5.8	10.4	13.3	13.3
92.5°	20.4	87.4	151.4	58.1	47.7
95°	48.9	179.3	580.7	248.3	158.5
97.5°	79.7	198.8	886.2	682.8	481.8
100°	102.2	210.9	982.2	991.4	808.8
102.5°	123.5	225.2	1007.1	1229.9	1062.5
105°	161.5	248.4	995.5	1516.1	1414.7
107.5°	197.6	277.0	938.9	1656.3	1686.4
110°	223.7	296.1	896.3	1691.2	1795.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	247.4	317.5	853.6	1668.7	1827.5
115°	285.9	348.2	798.5	1590.0	1804.4
117.5°	322.7	380.0	763.5	1479.5	1722.0
120°	345.2	400.2	748.1	1396.7	1647.3
122.5°	365.3	420.4	737.4	1324.2	1562.0
125°	394.1	449.1	724.4	1225.5	1435.5
127.5°	421.3	473.7	715.8	1143.1	1327.3
130°	435.5	489.1	711.1	1094.1	1262.2
132.5°	452.1	505.7	707.5	1051.1	1202.9
135°	475.5	527.7	703.7	991.1	1121.4
137.5°	497.5	545.8	700.4	942.5	1050.0
140°	514.0	559.0	699.2	910.3	1007.4
142.5°	528.3	569.7	696.9	881.5	964.7
145°	549.6	587.3	693.3	844.4	909.6
147.5°	572.4	604.9	691.5	811.5	863.7
150°	586.6	615.6	690.3	793.5	834.0
152.5°	599.7	626.3	689.2	777.9	811.5
155°	622.2	642.5	688.9	759.0	780.7
157.5°	638.5	655.0	688.9	743.4	758.5
160°	650.3	663.4	688.9	735.0	746.6
162.5°	659.8	670.5	690.0	727.9	737.1
165°	672.6	681.2	691.8	720.1	724.4
167.5°	681.4	688.1	693.3	713.5	714.6
170°	687.4	691.7	693.3	711.1	711.1
172.5°	692.1	694.1	693.3	707.5	706.3
175°	696.3	697.7	693.3	702.2	700.7
177.5°	697.4	697.4	692.7	699.8	697.4
180°	696.3	696.3	696.3	696.3	696.3

(END OF REPORT)