

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: P564264

Luminaire Tested: **SQ4-PR1-100U-075D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564264  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PR1-100U-075D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

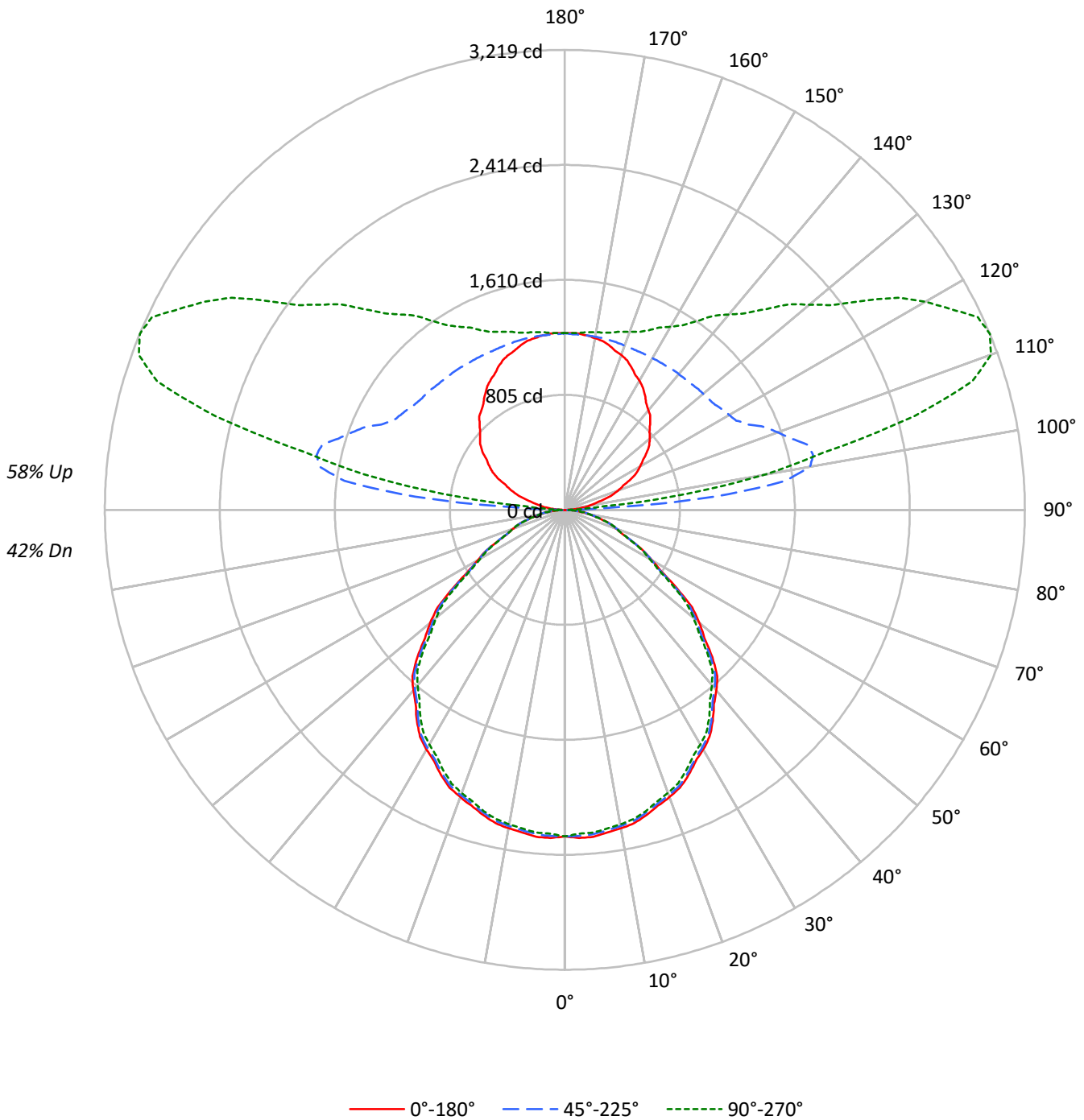
Lumens per Lamp: N/A  
Luminaire Lumens: 13747.4 lumens  
Efficiency: N/A  
Efficacy: 132.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 103.9  
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	81	75	70	80	74	69	64	61	57	54	49	47	44	38	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	19
6	62	50	42	37	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	48	38	31	27	32	27	23	26	22	20	21	18	16	14
9	49	38	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15	12
10	46	34	27	23	42	32	25	21	27	22	19	22	19	16	18	15	13	11

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

	0°	45°	90°
0°	10541	10541	10541
5°	10636	10554	10499
10°	10602	10528	10473
15°	10556	10490	10433
20°	10502	10435	10357
25°	10428	10358	10238
30°	10316	10243	10096
35°	10164	10075	9931
40°	9932	9825	9647
45°	9527	9361	9167
50°	8814	8602	8433
55°	7693	7519	7361
60°	6482	6428	6301
65°	5607	5628	5585
70°	5150	5177	5177
75°	4946	4946	4982
80°	4654	4705	4654
85°	3753	4166	4166



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.1	1.6
10°-20°	618.2	4.5
20°-30°	932.5	6.8
30°-40°	1111.0	8.1
40°-50°	1095.4	8.0
50°-60°	837.2	6.1
60°-70°	518.1	3.8
70°-80°	294.3	2.1
80°-90°	92.1	0.7
90°-100°	579.0	4.2
100°-110°	1598.3	11.6
110°-120°	1648.4	12.0
120°-130°	1324.6	9.6
130°-140°	1041.0	7.6
140°-150°	798.4	5.8
150°-160°	573.8	4.2
160°-170°	350.9	2.6
170°-180°	118.3	0.9
0°-30°	1766.8	12.9
0°-40°	2877.8	20.9
0°-60°	4810.4	35.0
0°-90°	5714.8	41.6
90°-120°	3825.6	27.8
90°-150°	6989.6	50.8
90°-180°	8033.0	58.4
0°-180°	13747.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2285	2285	2285	2285	2285	
5°	2297	2272	2279	2271	2267	218
15°	2210	2187	2196	2188	2185	624
25°	2049	2024	2035	2013	2011	943
35°	1805	1784	1789	1765	1763	1126
45°	1460	1441	1435	1409	1405	1119
55°	956	941	935	919	915	857
65°	514	510	516	512	512	520
75°	278	278	278	280	280	293
85°	71	75	79	79	79	82
90°	4	8	16	18	20	9
95°	85	313	1050	432	281	91
105°	285	440	1758	2685	2528	303
115°	510	617	1416	2804	3189	501
125°	700	797	1284	2172	2550	623
135°	843	934	1248	1760	1984	652
145°	977	1045	1232	1498	1612	612
155°	1102	1138	1222	1344	1387	508
165°	1193	1208	1228	1276	1286	336
175°	1236	1238	1230	1248	1244	117
180°	1236	1236	1236	1236	1236	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2285.0	2285.0	2285.0	2285.0	2285.0
2.5°	2299.2	2279.1	2285.0	2280.0	2269.2
5°	2296.8	2271.8	2279.1	2271.1	2267.3
7.5°	2279.1	2254.5	2261.8	2253.8	2251.5
10°	2263.3	2240.2	2247.6	2239.6	2235.8
12.5°	2246.0	2221.4	2230.3	2220.7	2216.9
15°	2210.2	2187.1	2196.4	2188.5	2184.6
17.5°	2170.8	2146.2	2155.5	2146.3	2141.3
20°	2139.3	2116.3	2125.6	2111.7	2109.8
22.5°	2104.7	2081.6	2090.9	2072.4	2072.0
25°	2048.8	2023.8	2035.0	2013.3	2011.4
27.5°	1982.3	1959.2	1968.5	1946.4	1944.1
30°	1936.6	1913.5	1922.9	1899.1	1895.3
32.5°	1884.7	1863.1	1870.9	1847.2	1844.9
35°	1804.8	1783.6	1789.0	1765.4	1763.4
37.5°	1713.8	1694.6	1697.7	1671.7	1669.8
40°	1649.3	1630.0	1631.6	1604.0	1602.0
42.5°	1578.4	1559.2	1557.6	1530.0	1528.0
45°	1460.3	1441.1	1434.8	1409.1	1405.2
47.5°	1325.7	1306.5	1294.6	1273.7	1271.0
50°	1228.1	1208.9	1198.6	1180.7	1175.0
52.5°	1122.6	1103.4	1094.7	1078.4	1072.6
55°	956.5	941.1	934.9	919.0	915.2
57.5°	798.7	788.3	786.5	771.1	769.5
60°	702.6	696.8	696.7	682.9	682.9
62.5°	620.7	616.5	619.6	610.5	608.9
65°	513.7	509.8	515.6	511.7	511.7
67.5°	429.1	429.1	432.6	431.0	431.0
70°	381.8	381.8	383.8	383.8	383.8
72.5°	339.3	337.8	342.8	342.8	341.3
75°	277.5	277.5	277.5	279.5	279.5
77.5°	216.1	216.5	218.1	217.6	216.1
80°	175.2	177.1	177.1	175.2	175.2
82.5°	134.2	136.2	136.2	135.8	134.2
85°	70.9	74.7	78.7	78.7	78.7
87.5°	21.3	28.2	34.7	35.0	33.9
90°	4.0	7.8	15.8	17.8	19.8
92.5°	35.6	147.8	264.3	96.4	75.2
95°	85.1	313.3	1050.3	431.7	280.9
97.5°	140.8	350.9	1555.9	1197.9	867.6
100°	182.0	373.5	1742.6	1755.0	1426.2
102.5°	221.5	399.1	1779.0	2168.4	1856.6
105°	284.8	439.6	1758.5	2684.6	2527.9
107.5°	352.1	489.8	1660.4	2933.5	2990.8
110°	399.6	523.3	1584.4	2987.1	3172.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	442.3	561.4	1513.2	2944.8	3218.7
115°	510.3	616.7	1416.3	2803.7	3188.6
117.5°	569.7	675.7	1352.6	2605.1	3043.0
120°	609.2	713.7	1327.3	2470.7	2911.7
122.5°	647.2	747.0	1306.7	2345.2	2762.9
125°	700.2	796.9	1283.7	2172.5	2549.7
127.5°	745.3	842.0	1270.3	2026.6	2351.9
130°	775.4	872.1	1264.0	1937.3	2233.2
132.5°	803.9	895.9	1257.6	1862.3	2130.3
135°	842.6	933.5	1248.1	1759.6	1984.0
137.5°	886.2	968.9	1243.4	1673.4	1864.9
140°	909.9	991.1	1240.2	1615.9	1784.2
142.5°	936.8	1011.8	1237.1	1564.8	1713.0
145°	977.1	1044.8	1232.3	1498.0	1612.1
147.5°	1015.9	1075.1	1228.0	1441.6	1530.2
150°	1044.4	1092.8	1226.4	1408.0	1479.6
152.5°	1066.6	1111.8	1224.8	1379.2	1438.4
155°	1101.8	1138.5	1222.4	1344.1	1386.6
157.5°	1134.2	1162.4	1222.8	1318.4	1347.4
160°	1153.2	1178.3	1224.4	1304.0	1325.3
162.5°	1169.0	1191.1	1226.0	1291.2	1307.9
165°	1192.8	1208.2	1228.4	1276.1	1285.7
167.5°	1211.0	1220.2	1230.3	1266.8	1269.9
170°	1220.4	1228.2	1230.3	1262.0	1262.0
172.5°	1228.4	1233.0	1230.3	1255.6	1254.1
175°	1236.3	1238.2	1230.3	1248.1	1244.2
177.5°	1239.4	1237.9	1229.9	1240.9	1237.9
180°	1236.3	1236.3	1236.3	1236.3	1236.3

(END OF REPORT)