

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: P564304

Luminaire Tested: **SQ4-PR1-100U-100D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564304
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-100D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

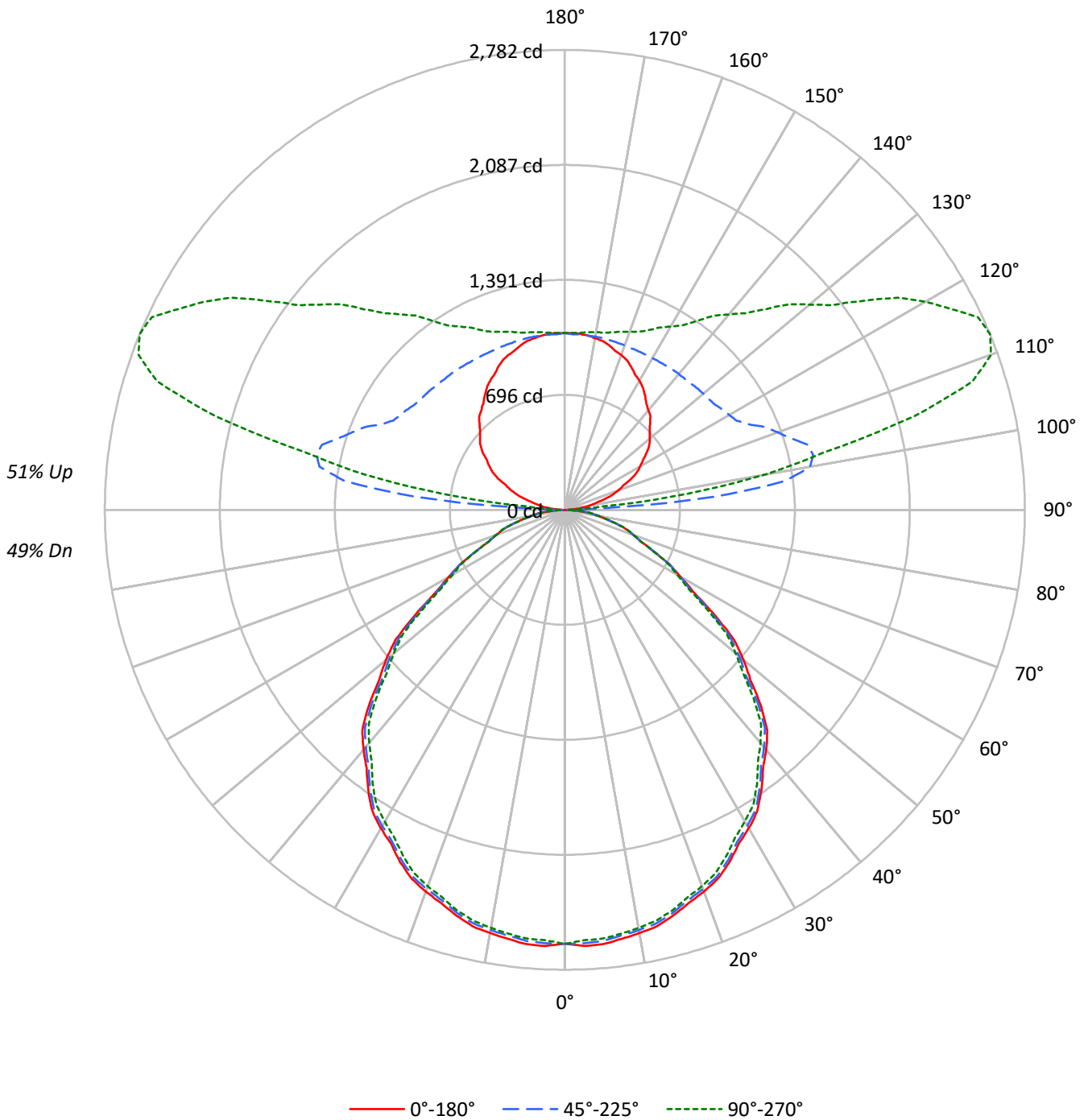
Lumens per Lamp: N/A
Luminaire Lumens: 13507.5 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 121.2
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	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	70	68	60	59	57	49	48	47	41				
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	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	35	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	34	30	27	28	25	23	20				
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	28	34	28	25	29	24	21	24	21	18	16				
9	51	38	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	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12108	12108	12108
5°	12217	12122	12060
10°	12178	12093	12030
15°	12124	12049	11984
20°	12063	11986	11897
25°	11978	11898	11760
30°	11849	11765	11596
35°	11674	11572	11407
40°	11408	11286	11082
45°	10943	10751	10530
50°	10124	9880	9686
55°	8837	8636	8454
60°	7446	7384	7237
65°	6440	6465	6416
70°	5916	5945	5945
75°	5682	5682	5721
80°	5345	5406	5345
85°	4308	4785	4785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	1.8
10°-20°	710.1	5.3
20°-30°	1071.1	7.9
30°-40°	1276.2	9.4
40°-50°	1258.2	9.3
50°-60°	961.6	7.1
60°-70°	595.1	4.4
70°-80°	338.0	2.5
80°-90°	105.0	0.8
90°-100°	500.5	3.7
100°-110°	1381.7	10.2
110°-120°	1425.0	10.5
120°-130°	1145.1	8.5
130°-140°	899.9	6.7
140°-150°	690.2	5.1
150°-160°	496.0	3.7
160°-170°	303.4	2.2
170°-180°	102.3	0.8
0°-30°	2029.4	15.0
0°-40°	3305.6	24.5
0°-60°	5525.4	40.9
0°-90°	6563.5	48.6
90°-120°	3307.2	24.5
90°-150°	6042.4	44.7
90°-180°	6944.0	51.4
0°-180°	13507.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2625	2625	2625	2625	2625	
5°	2638	2610	2618	2609	2604	250
15°	2539	2512	2523	2514	2509	716
25°	2353	2325	2338	2313	2310	1083
35°	2073	2049	2055	2028	2026	1294
45°	1677	1655	1648	1618	1614	1285
55°	1099	1081	1074	1056	1051	984
65°	590	586	592	588	588	598
75°	319	319	319	321	321	337
85°	81	86	90	90	90	95
90°	3	7	14	15	17	8
95°	74	271	908	373	243	79
105°	246	380	1520	2321	2185	262
115°	441	533	1224	2424	2756	434
125°	605	689	1110	1878	2204	539
135°	728	807	1079	1521	1715	564
145°	845	903	1065	1295	1394	529
155°	952	984	1057	1162	1199	439
165°	1031	1044	1062	1103	1112	291
175°	1069	1070	1064	1079	1076	102
180°	1069	1069	1069	1069	1069	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2624.6	2624.6	2624.6	2624.6	2624.6
2.5°	2640.9	2617.9	2624.6	2618.9	2606.5
5°	2638.2	2609.5	2617.8	2608.7	2604.3
7.5°	2617.8	2589.5	2597.9	2588.8	2586.2
10°	2599.8	2573.2	2581.7	2572.5	2568.1
12.5°	2579.9	2551.6	2561.8	2550.8	2546.4
15°	2538.7	2512.2	2522.9	2513.8	2509.3
17.5°	2493.5	2465.2	2475.9	2465.3	2459.6
20°	2457.3	2430.8	2441.5	2425.6	2423.4
22.5°	2417.5	2391.0	2401.7	2380.5	2380.0
25°	2353.3	2324.6	2337.5	2312.6	2310.4
27.5°	2276.9	2250.4	2261.1	2235.7	2233.1
30°	2224.5	2198.0	2208.7	2181.4	2177.0
32.5°	2164.8	2140.0	2149.0	2121.8	2119.1
35°	2073.0	2048.7	2054.9	2027.8	2025.5
37.5°	1968.6	1946.5	1950.0	1920.2	1917.9
40°	1894.4	1872.3	1874.1	1842.4	1840.2
42.5°	1813.0	1790.9	1789.1	1757.4	1755.2
45°	1677.4	1655.3	1648.0	1618.5	1614.1
47.5°	1522.8	1500.7	1487.1	1463.0	1459.9
50°	1410.7	1388.5	1376.7	1356.2	1349.6
52.5°	1289.5	1267.4	1257.4	1238.7	1232.1
55°	1098.7	1081.0	1073.8	1055.6	1051.2
57.5°	917.4	905.4	903.4	885.7	883.9
60°	807.1	800.4	800.3	784.4	784.4
62.5°	713.0	708.1	711.7	701.2	699.4
65°	590.0	585.6	592.3	587.8	587.8
67.5°	492.8	492.8	496.9	495.1	495.1
70°	438.6	438.6	440.8	440.8	440.8
72.5°	389.7	388.0	393.8	393.8	392.0
75°	318.8	318.8	318.8	321.0	321.0
77.5°	248.2	248.7	250.5	250.0	248.2
80°	201.2	203.4	203.5	201.2	201.2
82.5°	154.2	156.4	156.4	155.9	154.2
85°	81.4	85.8	90.4	90.4	90.4
87.5°	24.2	31.9	38.9	39.2	37.8
90°	3.4	6.8	13.7	15.4	17.1
92.5°	30.8	127.8	228.5	83.4	65.0
95°	73.5	270.8	908.0	373.2	242.8
97.5°	121.7	303.3	1345.1	1035.6	750.0
100°	157.3	322.8	1506.5	1517.1	1232.9
102.5°	191.5	345.0	1537.9	1874.5	1605.0
105°	246.2	380.0	1520.2	2320.8	2185.3
107.5°	304.4	423.4	1435.3	2536.0	2585.5
110°	345.4	452.4	1369.7	2582.3	2742.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	382.3	485.3	1308.1	2545.7	2782.5
115°	441.2	533.1	1224.3	2423.8	2756.5
117.5°	492.5	584.1	1169.3	2252.1	2630.6
120°	526.7	617.0	1147.4	2135.9	2517.1
122.5°	559.5	645.8	1129.6	2027.3	2388.5
125°	605.3	688.9	1109.8	1878.1	2204.2
127.5°	644.3	727.9	1098.1	1751.9	2033.2
130°	670.3	753.9	1092.7	1674.7	1930.6
132.5°	694.9	774.5	1087.2	1609.9	1841.6
135°	728.4	807.0	1079.0	1521.2	1715.1
137.5°	766.1	837.6	1074.9	1446.6	1612.2
140°	786.6	856.8	1072.2	1396.9	1542.4
142.5°	809.8	874.7	1069.4	1352.8	1480.8
145°	844.7	903.2	1065.3	1295.0	1393.6
147.5°	878.2	929.4	1061.5	1246.3	1322.8
150°	902.9	944.7	1060.2	1217.2	1279.1
152.5°	922.0	961.1	1058.8	1192.3	1243.5
155°	952.5	984.2	1056.8	1161.9	1198.7
157.5°	980.5	1004.9	1057.1	1139.8	1164.8
160°	996.9	1018.6	1058.5	1127.3	1145.7
162.5°	1010.6	1029.7	1059.8	1116.3	1130.6
165°	1031.1	1044.5	1061.9	1103.1	1111.5
167.5°	1046.8	1054.9	1063.6	1095.1	1097.8
170°	1055.1	1061.7	1063.6	1091.0	1091.0
172.5°	1061.9	1065.9	1063.6	1085.5	1084.1
175°	1068.7	1070.4	1063.6	1078.9	1075.6
177.5°	1071.5	1070.1	1063.3	1072.8	1070.1
180°	1068.7	1068.7	1068.7	1068.7	1068.7

(END OF REPORT)