

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: P564976

Luminaire Tested: **SQ4-PW1-100U-100D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564976
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PW1-100U-100D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

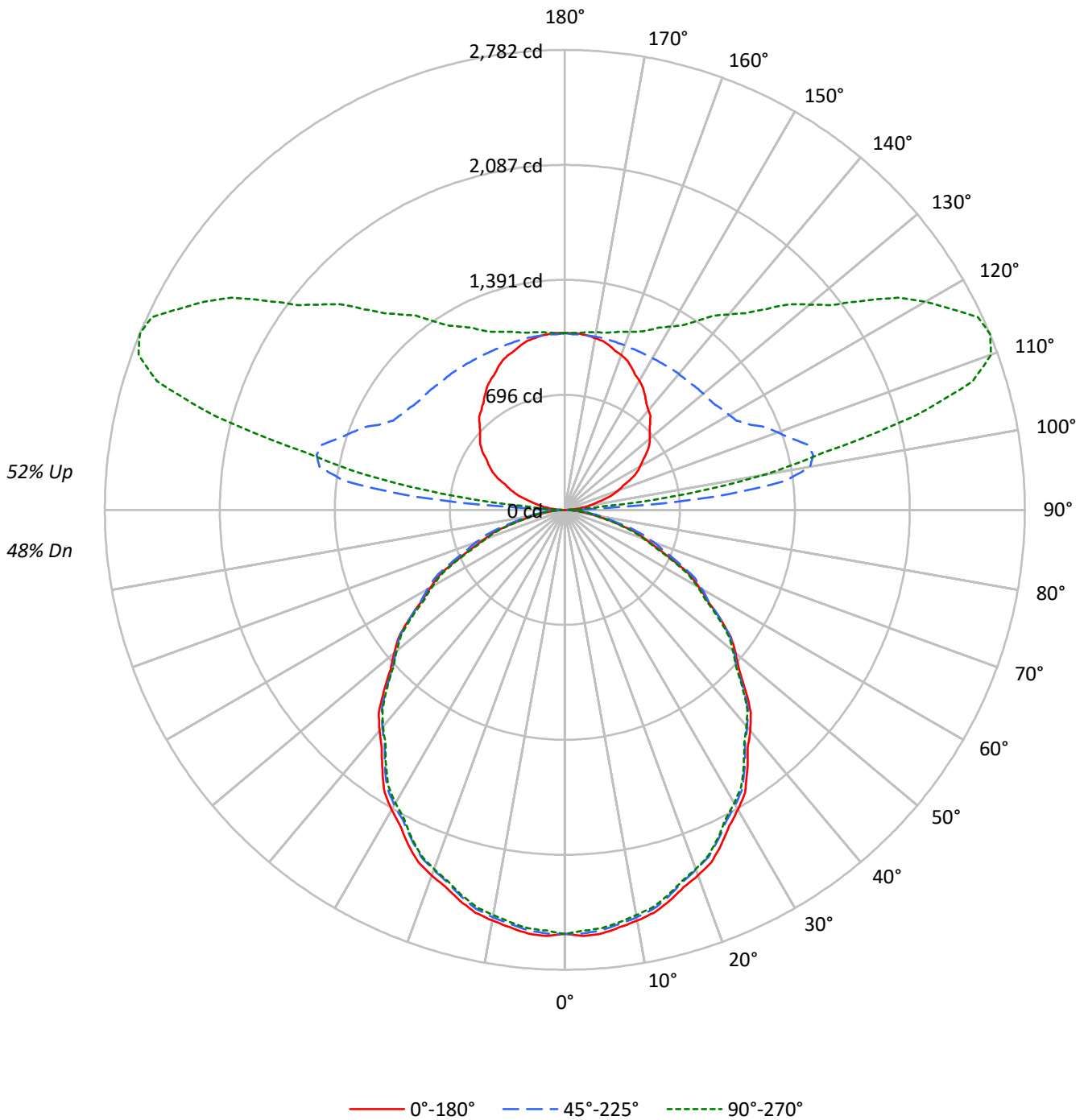
Lumens per Lamp: N/A
Luminaire Lumens: 13474.5 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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		
RC	80					70					50					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	82	82	82	68	68	68	55	55	55	48
1	98	93	89	86	90	86	83	80	72	70	68	60	58	57	49	47	46	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	47	47	43	40	38	36	33	29
4	74	63	56	50	68	59	52	47	50	45	40	42	38	35	34	31	29	25
5	68	57	48	43	62	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	35	30	36	31	27	31	26	23	25	22	20	17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	29	24	30	25	21	26	22	19	21	18	16	14
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11837	11837	11837
5°	11913	11819	11767
10°	11818	11723	11659
15°	11693	11563	11520
20°	11553	11376	11353
25°	11392	11185	11150
30°	11151	10982	10910
35°	10834	10681	10618
40°	10496	10333	10292
45°	10088	9955	9911
50°	9670	9589	9523
55°	9219	9219	9073
60°	8656	8823	8510
65°	7921	8315	7724
70°	6983	7653	6799
75°	5964	6850	5802
80°	4625	5765	4684
85°	2991	4425	3949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.6	1.8
10°-20°	682.1	5.1
20°-30°	1011.9	7.5
30°-40°	1184.0	8.8
40°-50°	1178.7	8.7
50°-60°	1017.8	7.6
60°-70°	732.7	5.4
70°-80°	384.2	2.9
80°-90°	97.5	0.7
90°-100°	500.5	3.7
100°-110°	1381.7	10.3
110°-120°	1425.0	10.6
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	2.3
170°-180°	102.3	0.8
0°-30°	1935.6	14.4
0°-40°	3119.6	23.2
0°-60°	5316.1	39.5
0°-90°	6530.4	48.5
90°-120°	3307.2	24.5
90°-150°	6042.4	44.8
90°-180°	6944.0	51.5
0°-180°	13474.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2566	2566	2566	2566	2566	
5°	2573	2544	2552	2545	2541	244
15°	2448	2417	2421	2416	2412	690
25°	2238	2200	2197	2184	2191	1029
35°	1924	1897	1897	1879	1885	1203
45°	1546	1533	1526	1521	1519	1193
55°	1146	1144	1146	1130	1128	1023
65°	726	748	762	732	708	719
75°	335	366	384	359	326	359
85°	56	74	84	79	75	75
90°	3	7	14	15	17	7
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°	2565.9	2565.9	2565.9	2565.9	2565.9
2.5°	2580.3	2559.1	2565.9	2560.1	2547.8
5°	2572.6	2543.9	2552.3	2545.4	2541.0
7.5°	2546.4	2519.9	2526.1	2518.8	2516.1
10°	2522.9	2496.4	2502.6	2493.4	2489.0
12.5°	2495.8	2467.5	2473.6	2464.5	2461.9
15°	2448.3	2417.4	2421.2	2416.5	2412.1
17.5°	2393.1	2361.8	2362.4	2355.1	2354.3
20°	2353.4	2320.2	2317.2	2308.2	2312.7
22.5°	2309.9	2275.0	2272.0	2259.4	2265.6
25°	2238.1	2200.5	2197.4	2184.0	2190.6
27.5°	2154.9	2117.7	2117.8	2099.0	2106.0
30°	2093.4	2058.0	2061.7	2039.3	2048.2
32.5°	2028.3	1996.4	1998.4	1976.0	1984.9
35°	1923.8	1897.3	1896.7	1878.8	1885.4
37.5°	1817.1	1793.7	1790.0	1779.6	1781.4
40°	1743.0	1723.1	1715.8	1709.1	1709.1
42.5°	1665.2	1647.1	1639.9	1634.9	1633.1
45°	1546.3	1533.0	1525.9	1521.4	1519.2
47.5°	1428.7	1416.4	1410.2	1407.0	1404.8
50°	1347.4	1338.5	1336.1	1329.2	1327.0
52.5°	1266.0	1260.7	1258.3	1249.6	1247.4
55°	1146.2	1143.9	1146.2	1130.3	1128.1
57.5°	1021.4	1024.9	1032.2	1010.8	1005.5
60°	938.2	947.0	956.3	931.2	922.4
62.5°	853.2	867.3	880.3	851.5	839.2
65°	725.7	747.8	761.8	731.9	707.6
67.5°	602.7	630.1	647.0	614.7	587.3
70°	517.7	548.6	567.4	535.1	504.1
72.5°	443.5	478.0	493.3	462.7	431.8
75°	334.6	365.5	384.3	358.7	325.5
77.5°	237.4	266.5	282.1	259.8	232.4
80°	174.1	205.0	217.0	198.4	176.3
82.5°	123.4	149.1	157.3	146.1	131.1
85°	56.5	74.2	83.6	79.0	74.6
87.5°	15.2	28.2	37.1	37.5	39.6
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)