

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: P564081

Luminaire Tested: **SQ4-PR1-075U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564081
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-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

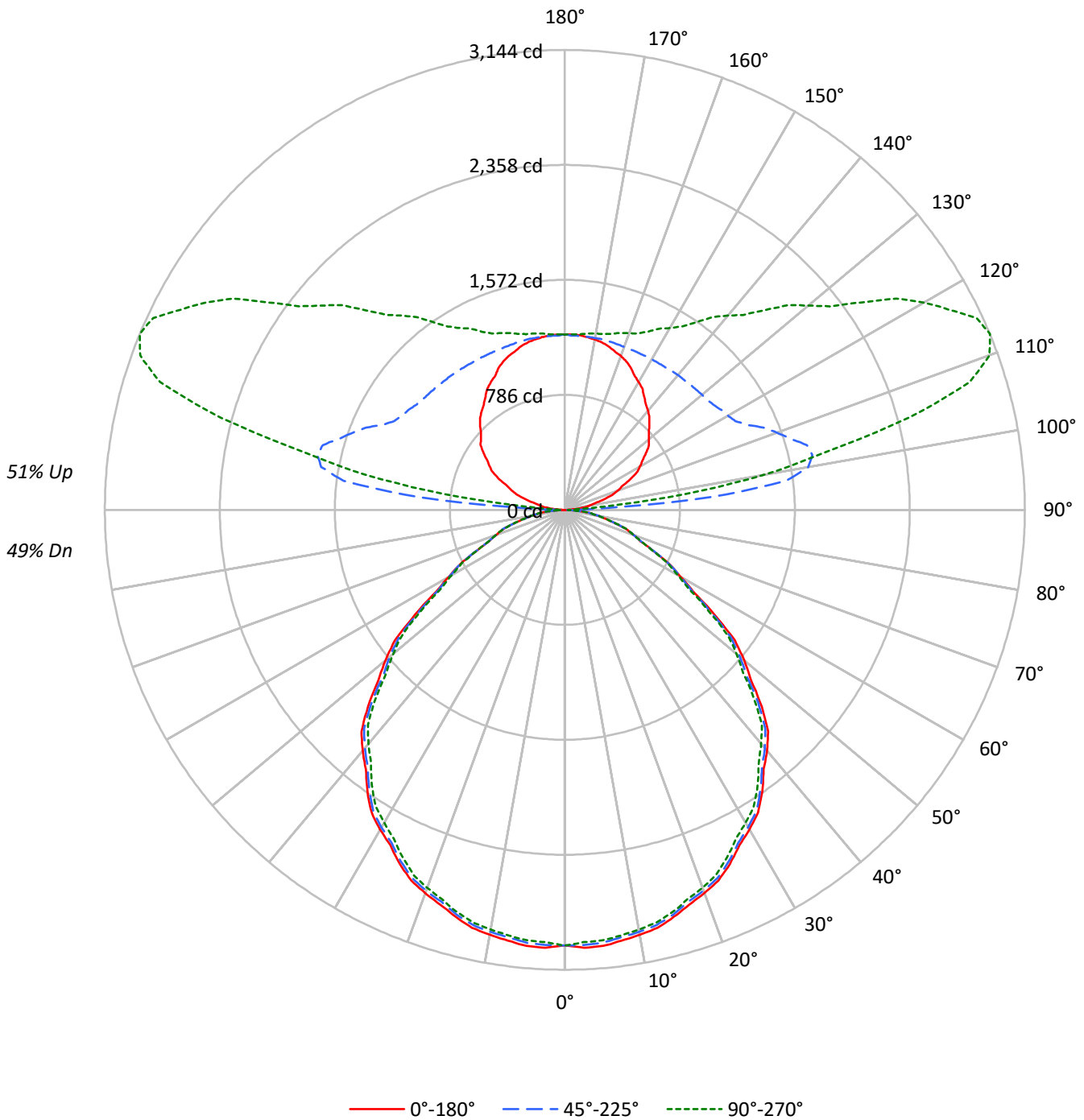
Lumens per Lamp: N/A
Luminaire Lumens: 15251.8 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 133.4
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	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°	9159	9159	9159
5°	9241	9170	9123
10°	9212	9148	9100
15°	9172	9115	9065
20°	9125	9067	8999
25°	9061	9000	8896
30°	8964	8900	8772
35°	8831	8754	8629
40°	8630	8537	8383
45°	8278	8133	7966
50°	7658	7474	7327
55°	6685	6533	6396
60°	5633	5586	5475
65°	4872	4891	4853
70°	4474	4498	4498
75°	4298	4298	4328
80°	4043	4089	4043
85°	3257	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.6	1.8
10°-20°	805.8	5.3
20°-30°	1215.3	8.0
30°-40°	1448.1	9.5
40°-50°	1427.7	9.4
50°-60°	1091.1	7.2
60°-70°	675.2	4.4
70°-80°	383.5	2.5
80°-90°	119.7	0.8
90°-100°	565.0	3.7
100°-110°	1554.4	10.2
110°-120°	1604.4	10.5
120°-130°	1285.5	8.4
130°-140°	1009.6	6.6
140°-150°	773.7	5.1
150°-160°	556.3	3.6
160°-170°	340.2	2.2
170°-180°	114.7	0.8
0°-30°	2302.7	15.1
0°-40°	3750.8	24.6
0°-60°	6269.6	41.1
0°-90°	7448.0	48.8
90°-120°	3723.8	24.4
90°-150°	6792.7	44.5
90°-180°	7804.0	51.2
0°-180°	15251.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2978	2978	2978	2978	2978	
5°	2994	2961	2970	2960	2955	284
15°	2881	2850	2863	2852	2847	813
25°	2670	2638	2652	2624	2622	1229
35°	2352	2325	2332	2301	2298	1468
45°	1903	1878	1870	1836	1832	1458
55°	1247	1227	1218	1198	1193	1117
65°	670	664	672	667	667	678
75°	362	362	362	364	364	382
85°	92	97	103	103	103	107
90°	2	10	18	23	23	9
95°	84	308	999	427	273	89
105°	278	427	1713	2608	2434	293
115°	492	599	1374	2736	3104	485
125°	678	773	1246	2108	2470	605
135°	818	908	1211	1705	1929	631
145°	946	1010	1193	1453	1565	593
155°	1070	1105	1185	1306	1343	492
165°	1157	1172	1190	1239	1246	326
175°	1198	1200	1193	1208	1206	114
180°	1198	1198	1198	1198	1198	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2978.1	2978.1	2978.1	2978.1	2978.1
2.5°	2996.6	2970.5	2978.1	2971.6	2957.6
5°	2993.5	2960.9	2970.4	2960.0	2955.0
7.5°	2970.4	2938.3	2947.8	2937.5	2934.5
10°	2949.9	2919.8	2929.4	2919.0	2914.0
12.5°	2927.3	2895.2	2906.8	2894.4	2889.4
15°	2880.6	2850.5	2862.7	2852.3	2847.3
17.5°	2829.3	2797.2	2809.3	2797.4	2790.9
20°	2788.3	2758.2	2770.3	2752.3	2749.8
22.5°	2743.1	2713.1	2725.2	2701.1	2700.6
25°	2670.3	2637.7	2652.3	2624.1	2621.6
27.5°	2583.6	2553.5	2565.6	2536.8	2533.8
30°	2524.1	2494.0	2506.1	2475.2	2470.2
32.5°	2456.4	2428.3	2438.4	2407.6	2404.6
35°	2352.2	2324.6	2331.7	2300.9	2298.4
37.5°	2233.7	2208.6	2212.7	2178.8	2176.3
40°	2149.6	2124.5	2126.5	2090.5	2088.0
42.5°	2057.2	2032.2	2030.0	1994.1	1991.6
45°	1903.3	1878.2	1870.0	1836.5	1831.5
47.5°	1727.9	1702.8	1687.3	1660.1	1656.6
50°	1600.6	1575.6	1562.2	1538.9	1531.4
52.5°	1463.1	1438.1	1426.7	1405.5	1398.0
55°	1246.7	1226.6	1218.4	1197.8	1192.8
57.5°	1040.9	1027.4	1025.0	1005.0	1003.0
60°	915.8	908.2	908.1	890.1	890.1
62.5°	809.0	803.5	807.5	795.7	793.7
65°	669.5	664.5	672.1	666.9	666.9
67.5°	559.2	559.2	563.8	561.8	561.8
70°	497.6	497.6	500.2	500.2	500.2
72.5°	442.2	440.2	446.8	446.8	444.8
75°	361.7	361.7	361.7	364.2	364.2
77.5°	281.7	282.2	284.2	283.7	281.7
80°	228.3	230.8	230.9	228.3	228.3
82.5°	174.9	177.4	177.5	176.9	174.9
85°	92.3	97.4	102.6	102.6	102.6
87.5°	27.2	36.7	44.6	45.6	43.6
90°	2.5	10.0	17.8	22.9	22.9
92.5°	35.2	150.3	260.5	100.0	82.1
95°	84.1	308.4	999.1	427.2	272.7
97.5°	137.1	342.0	1524.6	1174.7	828.8
100°	175.9	362.8	1689.8	1705.6	1391.6
102.5°	212.6	387.5	1732.6	2116.0	1827.9
105°	277.8	427.3	1712.7	2608.5	2434.0
107.5°	340.0	476.6	1615.4	2849.6	2901.5
110°	384.9	509.5	1542.0	2909.6	3089.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	425.6	546.3	1468.6	2871.0	3144.1
115°	491.9	599.1	1373.8	2735.5	3104.3
117.5°	555.1	653.8	1313.6	2545.5	2962.6
120°	593.9	688.6	1287.1	2403.0	2834.2
122.5°	628.5	723.2	1268.8	2278.2	2687.4
125°	678.0	772.7	1246.3	2108.4	2469.7
127.5°	724.9	815.1	1231.5	1966.7	2283.7
130°	749.3	841.5	1223.4	1882.4	2171.5
132.5°	777.9	870.1	1217.3	1808.4	2069.6
135°	818.1	907.9	1210.6	1705.1	1929.4
137.5°	855.9	939.1	1205.0	1621.6	1806.5
140°	884.4	961.7	1203.0	1566.2	1733.1
142.5°	908.9	980.1	1198.9	1516.7	1659.7
145°	945.6	1010.4	1192.8	1452.8	1564.9
147.5°	984.8	1040.6	1189.7	1396.2	1485.9
150°	1009.3	1059.1	1187.7	1365.2	1434.9
152.5°	1031.7	1077.6	1185.7	1338.4	1396.2
155°	1070.5	1105.4	1185.2	1305.8	1343.2
157.5°	1098.5	1126.9	1185.2	1279.0	1304.9
160°	1118.9	1141.3	1185.2	1264.6	1284.6
162.5°	1135.2	1153.6	1187.2	1252.3	1268.2
165°	1157.1	1172.1	1190.3	1238.8	1246.3
167.5°	1172.4	1183.9	1192.8	1227.5	1229.5
170°	1182.6	1190.1	1192.8	1223.4	1223.4
172.5°	1190.8	1194.3	1192.8	1217.2	1215.2
175°	1197.9	1200.4	1192.8	1208.0	1205.5
177.5°	1199.9	1199.9	1191.8	1203.9	1199.9
180°	1197.9	1197.9	1197.9	1197.9	1197.9

(END OF REPORT)