

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: P564324

Luminaire Tested: **SQ4-PR1-100U-125D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564324
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-125D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

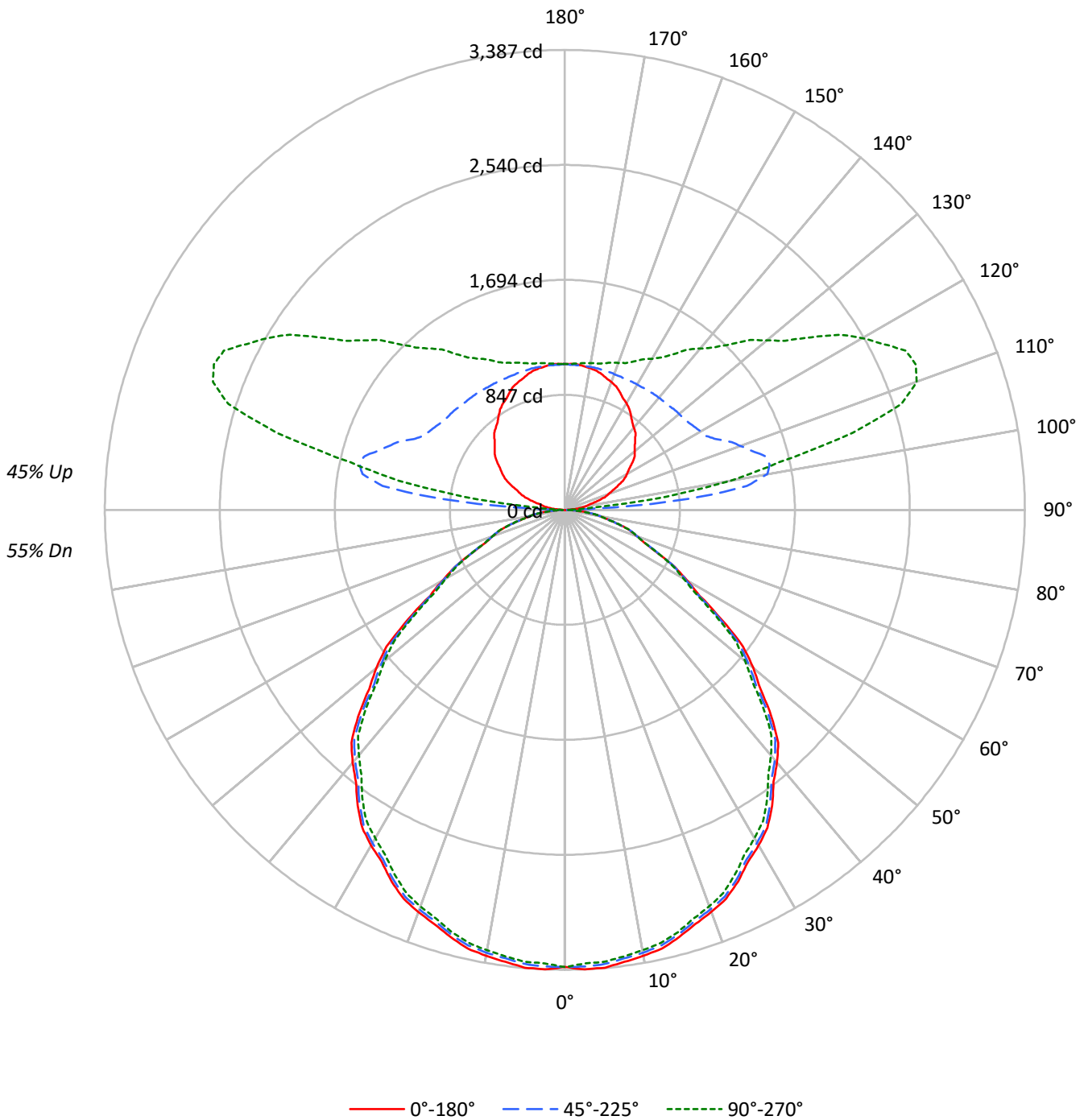
Lumens per Lamp: N/A
Luminaire Lumens: 15397.5 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 140.6
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	60	57	54	52	48	46	44	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	49	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	32	29	31	28	25	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15530	15530	15530
5°	15670	15549	15468
10°	15620	15511	15430
15°	15552	15455	15371
20°	15473	15374	15260
25°	15364	15261	15084
30°	15198	15090	14874
35°	14974	14844	14631
40°	14633	14476	14214
45°	14036	13790	13506
50°	12986	12673	12424
55°	11334	11077	10844
60°	9551	9471	9283
65°	8261	8293	8229
70°	7587	7626	7626
75°	7286	7286	7338
80°	6857	6934	6857
85°	5526	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.4	2.1
10°-20°	910.8	5.9
20°-30°	1373.8	8.9
30°-40°	1636.9	10.6
40°-50°	1613.8	10.5
50°-60°	1233.4	8.0
60°-70°	763.3	5.0
70°-80°	433.5	2.8
80°-90°	134.1	0.9
90°-100°	503.0	3.3
100°-110°	1388.8	9.0
110°-120°	1432.3	9.3
120°-130°	1150.9	7.5
130°-140°	904.5	5.9
140°-150°	693.7	4.5
150°-160°	498.6	3.2
160°-170°	304.9	2.0
170°-180°	102.8	0.7
0°-30°	2603.0	16.9
0°-40°	4239.9	27.5
0°-60°	7087.1	46.0
0°-90°	8418.0	54.7
90°-120°	3324.1	21.6
90°-150°	6073.2	39.4
90°-180°	6979.0	45.3
0°-180°	15397.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3366	3366	3366	3366	3366	
5°	3384	3347	3358	3346	3340	321
15°	3256	3222	3236	3224	3219	919
25°	3018	2982	2998	2966	2963	1389
35°	2659	2628	2636	2601	2598	1660
45°	2152	2123	2114	2076	2070	1648
55°	1409	1386	1377	1354	1348	1263
65°	757	751	760	754	754	767
75°	409	409	409	412	412	432
85°	104	110	116	116	116	121
90°	3	7	14	16	17	9
95°	74	272	913	375	244	79
105°	248	382	1528	2333	2196	263
115°	443	536	1231	2436	2770	436
125°	608	692	1115	1888	2215	541
135°	732	811	1084	1529	1724	566
145°	849	908	1071	1302	1401	532
155°	957	989	1062	1168	1205	441
165°	1036	1050	1067	1109	1117	292
175°	1074	1076	1069	1084	1081	102
180°	1074	1074	1074	1074	1074	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3366.5	3366.5	3366.5	3366.5	3366.5
2.5°	3387.3	3357.9	3366.5	3359.1	3343.3
5°	3383.9	3347.0	3357.8	3346.0	3340.4
7.5°	3357.8	3321.5	3332.2	3320.6	3317.2
10°	3334.6	3300.5	3311.4	3299.6	3294.0
12.5°	3309.1	3272.8	3285.9	3271.8	3266.1
15°	3256.3	3222.3	3236.0	3224.3	3218.6
17.5°	3198.3	3162.0	3175.7	3162.2	3154.8
20°	3151.9	3117.9	3131.6	3111.2	3108.4
22.5°	3100.9	3066.8	3080.6	3053.3	3052.7
25°	3018.5	2981.7	2998.2	2966.3	2963.4
27.5°	2920.5	2886.5	2900.2	2867.7	2864.2
30°	2853.2	2819.2	2832.9	2798.0	2792.3
32.5°	2776.7	2744.9	2756.4	2721.5	2718.1
35°	2659.0	2627.8	2635.8	2600.9	2598.1
37.5°	2525.0	2496.6	2501.2	2462.9	2460.0
40°	2429.9	2401.5	2403.8	2363.1	2360.3
42.5°	2325.5	2297.1	2294.8	2254.1	2251.3
45°	2151.5	2123.2	2113.8	2076.0	2070.3
47.5°	1953.2	1924.8	1907.4	1876.5	1872.6
50°	1809.4	1781.0	1765.9	1739.6	1731.1
52.5°	1653.9	1625.6	1612.8	1588.8	1580.3
55°	1409.2	1386.5	1377.3	1354.0	1348.3
57.5°	1176.7	1161.4	1158.7	1136.0	1133.8
60°	1035.2	1026.7	1026.5	1006.2	1006.2
62.5°	914.5	908.3	912.8	899.4	897.1
65°	756.8	751.1	759.7	753.9	753.9
67.5°	632.1	632.1	637.3	635.0	635.0
70°	562.5	562.5	565.4	565.4	565.4
72.5°	499.9	497.6	505.1	505.1	502.8
75°	408.8	408.8	408.8	411.7	411.7
77.5°	318.4	318.9	321.3	320.6	318.4
80°	258.1	260.9	261.0	258.1	258.1
82.5°	197.8	200.6	200.7	200.0	197.8
85°	104.4	110.1	116.0	116.0	116.0
87.5°	30.8	40.6	49.1	49.4	47.5
90°	3.4	6.8	13.7	15.5	17.2
92.5°	30.9	128.4	229.6	83.8	65.3
95°	73.9	272.2	912.6	375.1	244.1
97.5°	122.4	304.9	1351.9	1040.9	753.8
100°	158.1	324.5	1514.2	1524.9	1239.2
102.5°	192.5	346.8	1545.8	1884.1	1613.2
105°	247.5	381.9	1527.9	2332.6	2196.5
107.5°	305.9	425.6	1442.7	2548.9	2598.7
110°	347.2	454.7	1376.7	2595.5	2756.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	384.3	487.8	1314.8	2558.7	2796.7
115°	443.4	535.9	1230.6	2436.1	2770.5
117.5°	495.0	587.1	1175.2	2263.6	2644.0
120°	529.4	620.1	1153.2	2146.8	2529.9
122.5°	562.4	649.1	1135.4	2037.7	2400.7
125°	608.4	692.4	1115.4	1887.7	2215.4
127.5°	647.6	731.6	1103.7	1760.9	2043.5
130°	673.7	757.8	1098.2	1683.3	1940.4
132.5°	698.5	778.5	1092.7	1618.1	1851.0
135°	732.2	811.1	1084.5	1528.9	1723.9
137.5°	770.0	841.9	1080.4	1454.0	1620.4
140°	790.6	861.2	1077.6	1404.1	1550.3
142.5°	814.0	879.2	1074.9	1359.7	1488.4
145°	849.0	907.9	1070.7	1301.6	1400.7
147.5°	882.7	934.1	1067.0	1252.6	1329.6
150°	907.5	949.5	1065.6	1223.4	1285.6
152.5°	926.7	966.0	1064.2	1198.4	1249.8
155°	957.3	989.2	1062.2	1167.8	1204.8
157.5°	985.5	1010.0	1062.5	1145.6	1170.8
160°	1002.0	1023.8	1063.9	1133.0	1151.5
162.5°	1015.8	1034.9	1065.2	1122.0	1136.4
165°	1036.4	1049.8	1067.3	1108.8	1117.2
167.5°	1052.2	1060.3	1069.0	1100.7	1103.4
170°	1060.4	1067.2	1069.0	1096.5	1096.5
172.5°	1067.3	1071.3	1069.0	1091.0	1089.7
175°	1074.2	1075.9	1069.0	1084.4	1081.1
177.5°	1076.9	1075.6	1068.7	1078.2	1075.6
180°	1074.2	1074.2	1074.2	1074.2	1074.2

(END OF REPORT)