

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: P564966

Luminaire Tested: **SQ4-PW1-100U-100D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564966
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-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

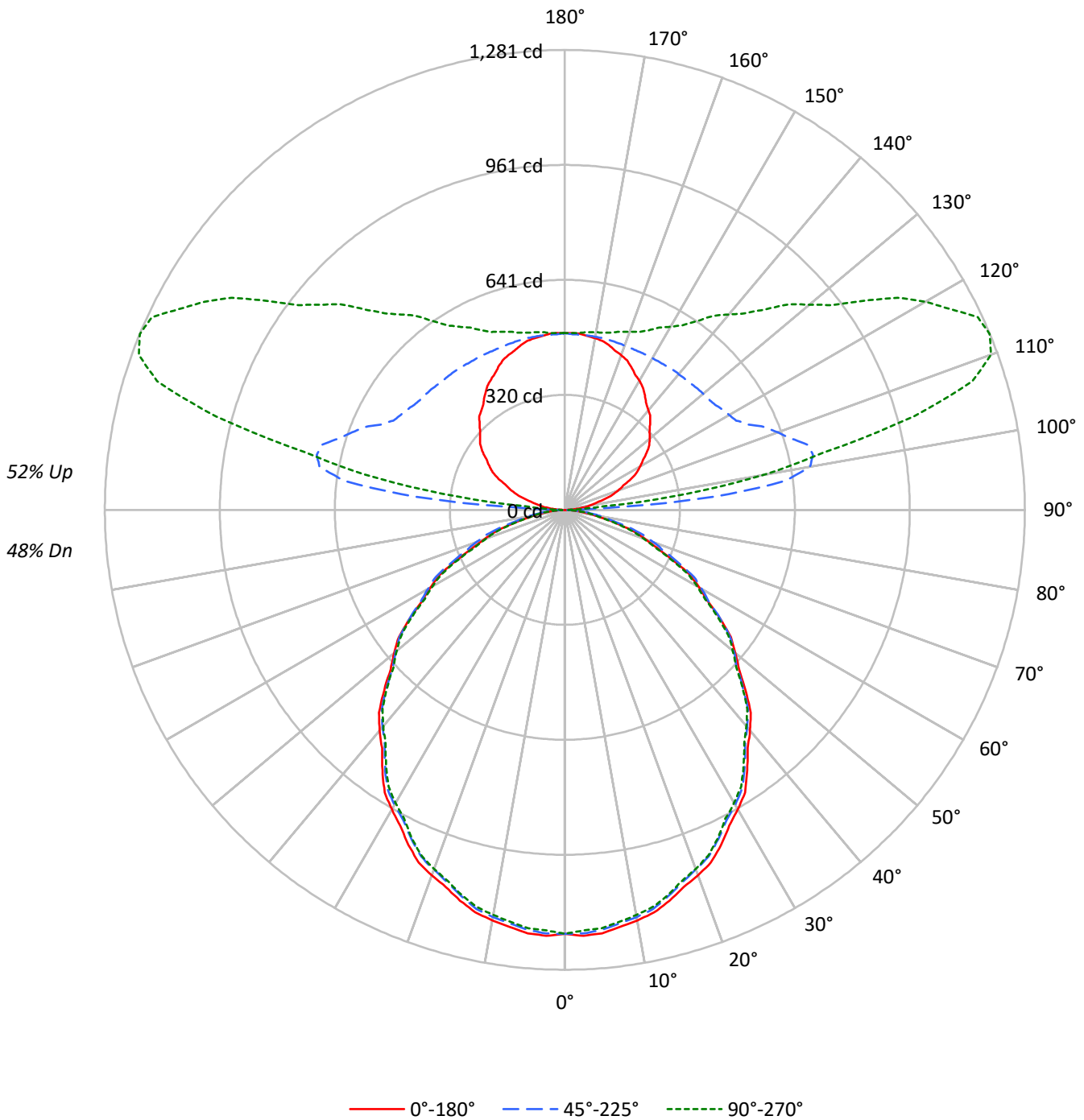
Lumens per Lamp: N/A
Luminaire Lumens: 6201.7 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57.9
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	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°	10895	10895	10895
5°	10966	10879	10831
10°	10879	10791	10733
15°	10763	10643	10604
20°	10634	10471	10451
25°	10486	10295	10263
30°	10265	10109	10043
35°	9972	9833	9774
40°	9662	9511	9474
45°	9286	9163	9123
50°	8901	8826	8767
55°	8485	8485	8352
60°	7968	8121	7833
65°	7292	7654	7110
70°	6428	7046	6258
75°	5490	6306	5340
80°	4256	5308	4314
85°	2752	4076	3631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	1.8
10°-20°	314.0	5.1
20°-30°	465.7	7.5
30°-40°	544.9	8.8
40°-50°	542.5	8.7
50°-60°	468.5	7.6
60°-70°	337.2	5.4
70°-80°	176.8	2.9
80°-90°	44.9	0.7
90°-100°	230.4	3.7
100°-110°	635.9	10.3
110°-120°	655.9	10.6
120°-130°	527.0	8.5
130°-140°	414.2	6.7
140°-150°	317.7	5.1
150°-160°	228.3	3.7
160°-170°	139.6	2.3
170°-180°	47.1	0.8
0°-30°	890.9	14.4
0°-40°	1435.8	23.2
0°-60°	2446.7	39.5
0°-90°	3005.7	48.5
90°-120°	1522.1	24.5
90°-150°	2781.0	44.8
90°-180°	3196.0	51.5
0°-180°	6201.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1184	1171	1175	1172	1170	112
15°	1127	1113	1114	1112	1110	318
25°	1030	1013	1011	1005	1008	474
35°	885	873	873	865	868	554
45°	712	706	702	700	699	549
55°	528	526	528	520	519	471
65°	334	344	351	337	326	331
75°	154	168	177	165	150	165
85°	26	34	38	36	34	34
90°	2	3	6	7	8	3
95°	34	125	418	172	112	36
105°	113	175	700	1068	1006	121
115°	203	245	564	1116	1269	200
125°	279	317	511	864	1014	248
135°	335	371	497	700	789	259
145°	389	416	490	596	641	243
155°	438	453	486	535	552	202
165°	475	481	489	508	512	134
175°	492	493	490	497	495	47
180°	492	492	492	492	492	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1180.9	1180.9	1180.9	1180.9	1180.9
2.5°	1187.6	1177.8	1180.9	1178.3	1172.6
5°	1184.1	1170.8	1174.7	1171.5	1169.5
7.5°	1172.0	1159.8	1162.6	1159.3	1158.0
10°	1161.2	1149.0	1151.8	1147.6	1145.6
12.5°	1148.7	1135.7	1138.5	1134.3	1133.1
15°	1126.8	1112.6	1114.3	1112.2	1110.2
17.5°	1101.4	1087.0	1087.3	1084.0	1083.5
20°	1083.1	1067.9	1066.5	1062.4	1064.4
22.5°	1063.2	1047.1	1045.7	1039.9	1042.8
25°	1030.1	1012.8	1011.3	1005.2	1008.2
27.5°	991.8	974.7	974.7	966.0	969.3
30°	963.5	947.2	948.9	938.6	942.7
32.5°	933.5	918.9	919.8	909.5	913.5
35°	885.4	873.2	873.0	864.7	867.8
37.5°	836.3	825.5	823.8	819.1	819.9
40°	802.2	793.0	789.7	786.6	786.6
42.5°	766.4	758.1	754.8	752.5	751.6
45°	711.7	705.6	702.3	700.2	699.2
47.5°	657.6	651.9	649.0	647.6	646.5
50°	620.1	616.1	614.9	611.8	610.8
52.5°	582.7	580.2	579.1	575.1	574.1
55°	527.5	526.5	527.5	520.2	519.2
57.5°	470.1	471.7	475.1	465.2	462.8
60°	431.8	435.9	440.1	428.6	424.5
62.5°	392.7	399.2	405.2	391.9	386.2
65°	334.0	344.2	350.6	336.9	325.7
67.5°	277.4	290.0	297.8	282.9	270.3
70°	238.3	252.5	261.2	246.3	232.0
72.5°	204.1	220.0	227.0	213.0	198.7
75°	154.0	168.2	176.9	165.1	149.8
77.5°	109.2	122.7	129.9	119.6	107.0
80°	80.1	94.4	99.9	91.3	81.2
82.5°	56.8	68.6	72.4	67.3	60.3
85°	26.0	34.2	38.5	36.4	34.3
87.5°	7.0	13.0	17.1	17.3	18.2
90°	1.6	3.1	6.3	7.1	7.9
92.5°	14.2	58.8	105.1	38.4	29.9
95°	33.8	124.6	417.9	171.8	111.8
97.5°	56.0	139.6	619.1	476.6	345.2
100°	72.4	148.6	693.4	698.3	567.4
102.5°	88.1	158.8	707.8	862.7	738.7
105°	113.3	174.9	699.7	1068.1	1005.8
107.5°	140.1	194.9	660.6	1167.2	1190.0
110°	159.0	208.2	630.4	1188.5	1262.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.0	223.4	602.1	1171.7	1280.6
115°	203.0	245.4	563.5	1115.5	1268.7
117.5°	226.7	268.8	538.2	1036.5	1210.7
120°	242.4	284.0	528.1	983.0	1158.5
122.5°	257.5	297.2	519.9	933.1	1099.3
125°	278.6	317.1	510.8	864.4	1014.5
127.5°	296.5	335.0	505.4	806.3	935.8
130°	308.5	347.0	502.9	770.8	888.5
132.5°	319.8	356.5	500.4	741.0	847.6
135°	335.3	371.4	496.6	700.1	789.4
137.5°	352.6	385.5	494.7	665.8	742.0
140°	362.0	394.3	493.5	642.9	709.9
142.5°	372.7	402.6	492.2	622.6	681.6
145°	388.8	415.7	490.3	596.0	641.4
147.5°	404.2	427.8	488.6	573.6	608.8
150°	415.5	434.8	487.9	560.2	588.7
152.5°	424.4	442.4	487.3	548.8	572.3
155°	438.4	453.0	486.4	534.8	551.7
157.5°	451.3	462.5	486.5	524.6	536.1
160°	458.8	468.8	487.2	518.8	527.3
162.5°	465.1	473.9	487.8	513.8	520.4
165°	474.6	480.7	488.7	507.7	511.6
167.5°	481.8	485.5	489.5	504.0	505.3
170°	485.6	488.7	489.5	502.1	502.1
172.5°	488.7	490.6	489.5	499.6	499.0
175°	491.9	492.7	489.5	496.6	495.0
177.5°	493.1	492.5	489.4	493.7	492.5
180°	491.9	491.9	491.9	491.9	491.9

(END OF REPORT)