

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: P564318

Luminaire Tested: **SQ4-PR1-100U-125D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564318
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-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

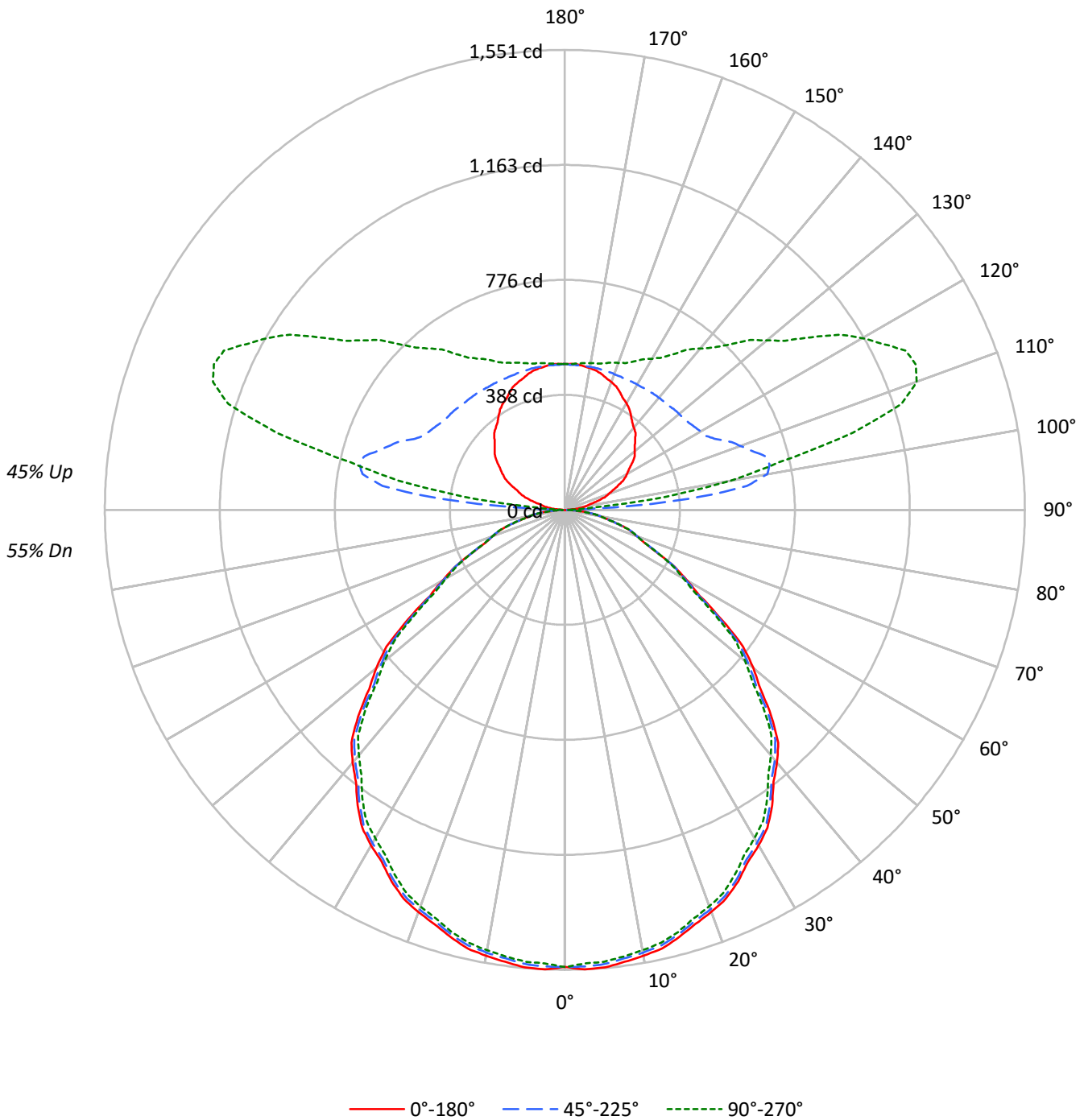
Lumens per Lamp: N/A
Luminaire Lumens: 7050.7 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68.7
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°	14222	14222	14222
5°	14351	14240	14166
10°	14305	14206	14131
15°	14242	14154	14077
20°	14171	14079	13975
25°	14071	13976	13814
30°	13919	13820	13622
35°	13714	13593	13400
40°	13401	13257	13017
45°	12855	12629	12369
50°	11892	11606	11378
55°	10380	10145	9931
60°	8746	8673	8501
65°	7564	7595	7536
70°	6949	6984	6984
75°	6673	6673	6720
80°	6280	6349	6280
85°	5060	5621	5621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	2.1
10°-20°	417.1	5.9
20°-30°	629.1	8.9
30°-40°	749.6	10.6
40°-50°	739.0	10.5
50°-60°	564.8	8.0
60°-70°	349.5	5.0
70°-80°	198.5	2.8
80°-90°	61.4	0.9
90°-100°	230.4	3.3
100°-110°	635.9	9.0
110°-120°	655.9	9.3
120°-130°	527.0	7.5
130°-140°	414.2	5.9
140°-150°	317.7	4.5
150°-160°	228.3	3.2
160°-170°	139.6	2.0
170°-180°	47.1	0.7
0°-30°	1191.9	16.9
0°-40°	1941.5	27.5
0°-60°	3245.3	46.0
0°-90°	3854.7	54.7
90°-120°	1522.1	21.6
90°-150°	2781.0	39.4
90°-180°	3196.0	45.3
0°-180°	7050.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1542	1542	1542	1542	1542	
5°	1550	1533	1538	1532	1530	147
15°	1491	1476	1482	1476	1474	421
25°	1382	1365	1373	1358	1357	636
35°	1218	1203	1207	1191	1190	760
45°	985	972	968	951	948	755
55°	645	635	631	620	617	578
65°	346	344	348	345	345	351
75°	187	187	187	188	188	198
85°	48	50	53	53	53	56
90°	2	3	6	7	8	4
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°	1541.5	1541.5	1541.5	1541.5	1541.5
2.5°	1551.1	1537.6	1541.5	1538.2	1530.9
5°	1549.5	1532.6	1537.6	1532.2	1529.6
7.5°	1537.6	1520.9	1525.9	1520.5	1519.0
10°	1526.9	1511.4	1516.3	1511.0	1508.4
12.5°	1515.3	1498.6	1504.6	1498.2	1495.6
15°	1491.1	1475.5	1481.8	1476.4	1473.8
17.5°	1464.5	1447.9	1454.2	1448.0	1444.6
20°	1443.3	1427.7	1434.0	1424.7	1423.4
22.5°	1419.9	1404.3	1410.6	1398.1	1397.9
25°	1382.2	1365.3	1372.9	1358.3	1357.0
27.5°	1337.3	1321.8	1328.0	1313.1	1311.6
30°	1306.5	1291.0	1297.2	1281.2	1278.6
32.5°	1271.5	1256.9	1262.2	1246.2	1244.7
35°	1217.6	1203.3	1206.9	1191.0	1189.7
37.5°	1156.2	1143.2	1145.3	1127.8	1126.5
40°	1112.7	1099.7	1100.7	1082.1	1080.8
42.5°	1064.9	1051.9	1050.8	1032.2	1030.9
45°	985.2	972.2	967.9	950.6	948.0
47.5°	894.4	881.4	873.4	859.3	857.5
50°	828.5	815.5	808.6	796.6	792.7
52.5°	757.4	744.4	738.5	727.5	723.6
55°	645.3	634.9	630.7	620.0	617.4
57.5°	538.8	531.8	530.6	520.2	519.2
60°	474.0	470.1	470.0	460.7	460.7
62.5°	418.8	415.9	418.0	411.9	410.8
65°	346.5	344.0	347.9	345.2	345.2
67.5°	289.5	289.5	291.8	290.8	290.8
70°	257.6	257.6	258.9	258.9	258.9
72.5°	228.9	227.9	231.3	231.3	230.2
75°	187.2	187.2	187.2	188.5	188.5
77.5°	145.8	146.0	147.1	146.8	145.8
80°	118.2	119.5	119.5	118.2	118.2
82.5°	90.6	91.9	91.9	91.6	90.6
85°	47.8	50.4	53.1	53.1	53.1
87.5°	14.1	18.6	22.5	22.6	21.8
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)