

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: P563618

Luminaire Tested: **SQ4-PP3-100U-100D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563618
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-100D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

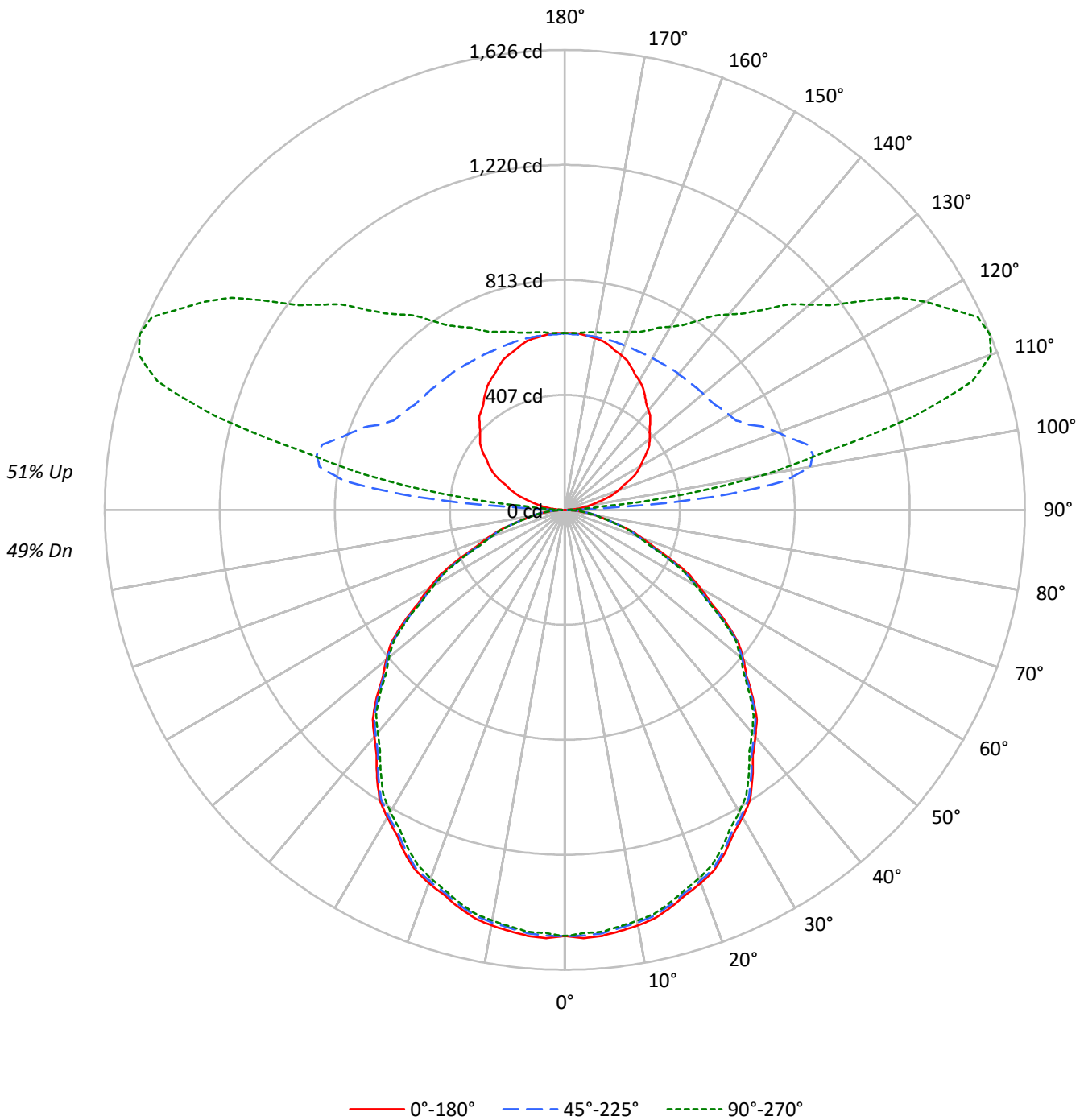
Lumens per Lamp: N/A
Luminaire Lumens: 7914.0 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	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	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41				
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	40	35				
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	38	36	34	30				
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22				
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	22	20	17				
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16				
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13899	13899	13899
5°	14001	13916	13867
10°	13978	13879	13818
15°	13885	13810	13734
20°	13794	13716	13612
25°	13630	13535	13401
30°	13378	13307	13138
35°	13027	12938	12775
40°	12611	12532	12388
45°	12266	12180	12060
50°	11826	11750	11636
55°	11215	11065	10980
60°	10208	9916	9868
65°	8994	8619	8591
70°	7764	7445	7445
75°	6684	6591	6495
80°	5892	5961	5823
85°	4615	5028	5028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	1.8
10°-20°	406.8	5.1
20°-30°	609.3	7.7
30°-40°	714.6	9.0
40°-50°	716.9	9.1
50°-60°	611.6	7.7
60°-70°	398.8	5.0
70°-80°	200.1	2.5
80°-90°	56.7	0.7
90°-100°	292.4	3.7
100°-110°	807.2	10.2
110°-120°	832.5	10.5
120°-130°	669.0	8.5
130°-140°	525.7	6.6
140°-150°	403.2	5.1
150°-160°	289.8	3.7
160°-170°	177.2	2.2
170°-180°	59.8	0.8
0°-30°	1158.5	14.6
0°-40°	1873.2	23.7
0°-60°	3201.6	40.5
0°-90°	3857.2	48.7
90°-120°	1932.1	24.4
90°-150°	3530.0	44.6
90°-180°	4057.0	51.3
0°-180°	7914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1506	1506	1506	1506	1506	
5°	1512	1498	1503	1497	1497	144
15°	1454	1440	1446	1440	1438	410
25°	1339	1323	1330	1318	1316	616
35°	1157	1145	1149	1136	1134	723
45°	940	934	934	924	924	724
55°	697	695	688	684	683	620
65°	412	404	395	392	394	411
75°	188	188	185	184	182	203
85°	44	47	48	48	48	51
90°	2	4	8	9	10	5
95°	43	158	530	218	142	46
105°	144	222	888	1356	1277	153
115°	258	312	715	1416	1610	253
125°	354	402	648	1097	1288	315
135°	426	472	630	889	1002	329
145°	494	528	622	756	814	309
155°	556	575	617	679	700	256
165°	602	610	620	644	649	170
175°	624	625	621	630	628	59
180°	624	624	624	624	624	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1506.5	1506.5	1506.5	1506.5	1506.5
2.5°	1516.0	1503.7	1506.5	1504.3	1498.1
5°	1511.8	1497.6	1502.6	1497.3	1497.3
7.5°	1501.5	1486.0	1491.0	1485.7	1485.4
10°	1492.0	1476.5	1481.5	1476.1	1474.9
12.5°	1478.3	1462.8	1468.8	1462.4	1462.2
15°	1453.7	1439.5	1445.8	1440.5	1437.9
17.5°	1426.0	1410.5	1418.1	1410.7	1409.6
20°	1404.9	1389.4	1397.0	1386.4	1386.4
22.5°	1379.5	1364.0	1372.7	1358.9	1358.9
25°	1338.9	1323.4	1329.6	1317.7	1316.4
27.5°	1290.5	1275.3	1281.8	1268.3	1268.1
30°	1255.7	1241.5	1249.1	1234.5	1233.2
32.5°	1217.6	1204.5	1210.0	1195.4	1194.1
35°	1156.6	1145.0	1148.7	1135.5	1134.2
37.5°	1092.5	1080.6	1084.8	1073.4	1072.9
40°	1047.1	1039.3	1040.5	1031.2	1028.6
42.5°	1004.8	996.0	997.1	987.9	987.4
45°	940.1	933.6	933.5	924.3	924.3
47.5°	871.4	866.5	865.1	857.4	857.2
50°	823.9	820.0	818.6	812.0	810.7
52.5°	774.3	772.5	767.9	762.4	762.1
55°	697.2	694.6	687.9	683.9	682.6
57.5°	613.4	608.3	600.8	595.0	596.0
60°	553.2	548.1	537.4	534.8	534.8
62.5°	495.1	488.9	478.2	474.6	476.7
65°	412.0	404.2	394.8	392.2	393.5
67.5°	336.4	329.5	319.3	319.2	318.2
70°	287.8	284.0	276.0	276.0	276.0
72.5°	244.5	242.7	236.9	236.9	235.8
75°	187.5	187.5	184.9	183.5	182.2
77.5°	140.5	141.0	139.7	138.3	136.0
80°	110.9	113.5	112.2	110.9	109.6
82.5°	83.4	86.0	85.8	83.4	83.2
85°	43.6	47.4	47.5	47.5	47.5
87.5°	12.0	16.5	18.5	18.7	20.0
90°	2.0	4.0	8.0	9.0	10.0
92.5°	18.0	74.6	133.5	48.7	38.0
95°	43.0	158.2	530.5	218.0	141.9
97.5°	71.1	177.2	785.8	605.0	438.1
100°	91.9	188.6	880.1	886.3	720.3
102.5°	111.9	201.6	898.5	1095.1	937.6
105°	143.9	222.0	888.1	1355.8	1276.7
107.5°	177.8	247.4	838.5	1481.5	1510.4
110°	201.8	264.3	800.2	1508.6	1602.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	223.4	283.5	764.2	1487.2	1625.5
115°	257.7	311.5	715.3	1416.0	1610.3
117.5°	287.7	341.2	683.1	1315.7	1536.8
120°	307.7	360.4	670.3	1247.8	1470.5
122.5°	326.9	377.3	659.9	1184.4	1395.4
125°	353.6	402.5	648.3	1097.2	1287.7
127.5°	376.4	425.2	641.5	1023.5	1187.8
130°	391.6	440.4	638.3	978.4	1127.8
132.5°	406.0	452.5	635.1	940.5	1075.9
135°	425.6	471.5	630.3	888.7	1002.0
137.5°	447.5	489.3	628.0	845.1	941.8
140°	459.5	500.5	626.4	816.1	901.1
142.5°	473.1	511.0	624.8	790.3	865.1
145°	493.5	527.7	622.4	756.5	814.2
147.5°	513.1	543.0	620.2	728.1	772.8
150°	527.5	551.9	619.4	711.1	747.2
152.5°	538.6	561.5	618.6	696.6	726.4
155°	556.4	575.0	617.4	678.8	700.3
157.5°	572.8	587.1	617.6	665.8	680.5
160°	582.4	595.1	618.4	658.6	669.3
162.5°	590.4	601.5	619.2	652.1	660.5
165°	602.4	610.2	620.4	644.4	649.3
167.5°	611.6	616.3	621.4	639.8	641.3
170°	616.4	620.3	621.4	637.3	637.3
172.5°	620.4	622.7	621.4	634.1	633.3
175°	624.4	625.3	621.4	630.3	628.4
177.5°	626.0	625.2	621.2	626.7	625.2
180°	624.4	624.4	624.4	624.4	624.4

(END OF REPORT)