

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: P523638

Luminaire Tested: **SQ4-PP3-025U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523638
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-075D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5246.7 lumens
Efficiency: N/A
Efficacy: 114.6 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: Semi-Direct

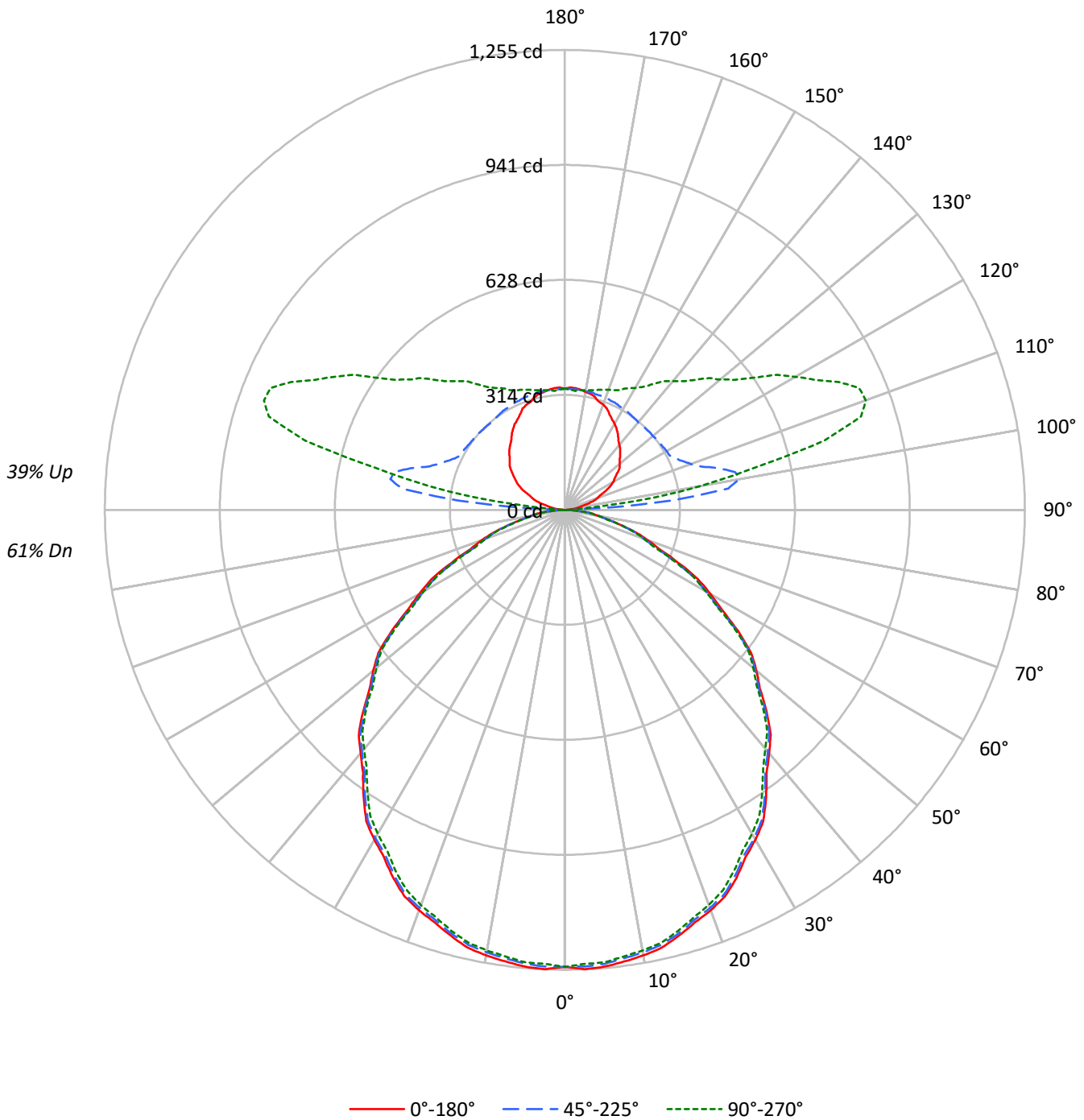
Input Watts (W): 45.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	89	94	90	87	84	79	76	74	68	67	65	59	58	56	52
2	92	84	78	73	86	79	74	69	69	65	62	60	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	52	72	62	55	49	55	49	45	48	43	40	41	38	35	32
5	71	59	51	45	66	55	48	42	49	43	39	43	38	35	37	34	31	28
6	65	53	45	39	61	50	42	37	44	38	34	39	34	30	34	30	27	25
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	22
8	56	43	36	30	52	41	34	29	37	31	26	32	28	24	28	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11505	11505	11505
5°	11590	11518	11479
10°	11570	11489	11437
15°	11494	11431	11368
20°	11418	11353	11268
25°	11281	11204	11092
30°	11073	11015	10875
35°	10783	10709	10574
40°	10438	10372	10254
45°	10154	10082	9982
50°	9789	9726	9633
55°	9283	9159	9088
60°	8449	8208	8167
65°	7444	7134	7110
70°	6428	6161	6161
75°	5532	5454	5376
80°	4877	4936	4819
85°	3822	4160	4160



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	2.2
10°-20°	336.7	6.4
20°-30°	504.3	9.6
30°-40°	591.5	11.3
40°-50°	593.4	11.3
50°-60°	506.2	9.6
60°-70°	330.1	6.3
70°-80°	165.6	3.2
80°-90°	45.8	0.9
90°-100°	150.8	2.9
100°-110°	428.9	8.2
110°-120°	411.0	7.8
120°-130°	325.3	6.2
130°-140°	261.1	5.0
140°-150°	204.4	3.9
150°-160°	149.6	2.9
160°-170°	92.6	1.8
170°-180°	31.4	0.6
0°-30°	958.9	18.3
0°-40°	1550.5	29.6
0°-60°	2650.1	50.5
0°-90°	3191.7	60.8
90°-120°	990.7	18.9
90°-150°	1781.4	34.0
90°-180°	2055.0	39.2
0°-180°	5246.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1251	1240	1244	1239	1239	119
15°	1203	1192	1197	1192	1190	339
25°	1108	1095	1101	1091	1090	510
35°	957	948	951	940	939	598
45°	778	773	773	765	765	599
55°	577	575	569	566	565	513
65°	341	335	327	325	326	340
75°	155	155	153	152	151	168
85°	36	39	39	39	39	42
90°	0	0	0	0	0	2
95°	16	65	292	101	62	19
105°	67	101	437	772	734	71
115°	124	150	332	702	825	122
125°	175	194	316	525	628	157
135°	214	232	313	444	501	165
145°	252	265	315	384	418	158
155°	288	295	323	347	361	133
165°	318	320	326	334	338	90
175°	333	332	330	328	326	32
180°	331	331	331	331	331	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1247.0	1247.0	1247.0	1247.0	1247.0
2.5°	1254.9	1244.6	1247.0	1245.2	1240.0
5°	1251.4	1239.6	1243.7	1239.4	1239.4
7.5°	1242.9	1230.0	1234.1	1229.8	1229.5
10°	1235.0	1222.2	1226.3	1221.9	1220.8
12.5°	1223.6	1210.8	1215.8	1210.5	1210.3
15°	1203.3	1191.6	1196.8	1192.3	1190.2
17.5°	1180.4	1167.5	1173.8	1167.7	1166.8
20°	1162.9	1150.0	1156.3	1147.6	1147.6
22.5°	1141.9	1129.1	1136.2	1124.8	1124.8
25°	1108.2	1095.4	1100.6	1090.7	1089.6
27.5°	1068.2	1055.6	1061.0	1049.9	1049.6
30°	1039.4	1027.6	1033.9	1021.9	1020.8
32.5°	1007.9	997.0	1001.6	989.5	988.4
35°	957.4	947.8	950.8	939.9	938.8
37.5°	904.3	894.5	897.9	888.5	888.1
40°	866.7	860.3	861.2	853.5	851.4
42.5°	831.7	824.4	825.4	817.7	817.3
45°	778.2	772.8	772.7	765.0	765.0
47.5°	721.3	717.3	716.1	709.7	709.5
50°	682.0	678.8	677.6	672.1	671.1
52.5°	640.9	639.4	635.6	631.0	630.8
55°	577.1	574.9	569.4	566.1	565.0
57.5°	507.8	503.5	497.3	492.5	493.3
60°	457.9	453.7	444.8	442.6	442.6
62.5°	409.8	404.7	395.9	392.8	394.5
65°	341.0	334.6	326.8	324.6	325.7
67.5°	278.5	272.7	264.3	264.2	263.4
70°	238.3	235.1	228.4	228.4	228.4
72.5°	202.4	200.9	196.1	196.1	195.2
75°	155.2	155.2	153.0	151.9	150.8
77.5°	116.3	116.7	115.6	114.5	112.6
80°	91.8	93.9	92.9	91.8	90.7
82.5°	69.1	71.2	71.0	69.1	68.9
85°	36.1	39.3	39.3	39.3	39.3
87.5°	9.6	13.0	14.0	14.0	14.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.0	26.7	61.9	18.0	13.6
95°	16.4	64.9	291.8	101.0	62.3
97.5°	30.1	76.1	449.5	321.6	220.4
100°	39.6	82.7	483.7	489.9	377.4
102.5°	50.2	89.8	476.1	627.1	528.8
105°	66.7	101.1	437.1	772.1	734.0
107.5°	83.4	114.3	391.6	813.0	847.0
110°	95.0	123.9	365.4	797.4	873.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.0	133.5	347.8	760.4	869.1
115°	123.9	149.7	331.5	702.2	824.6
117.5°	139.6	163.9	321.8	638.6	768.2
120°	152.2	172.5	320.8	602.2	726.4
122.5°	162.3	182.6	318.3	570.3	685.7
125°	174.8	193.9	316.4	525.0	627.7
127.5°	188.6	206.4	315.4	497.9	582.5
130°	195.6	213.4	313.8	479.1	552.9
132.5°	203.2	220.5	313.8	464.3	532.2
135°	213.8	231.7	312.6	443.5	501.3
137.5°	223.9	241.3	312.5	425.8	475.7
140°	231.5	249.3	312.0	411.2	459.1
142.5°	240.0	254.9	313.5	399.5	442.5
145°	252.2	265.1	315.1	383.8	418.3
147.5°	262.7	275.2	317.9	368.0	397.8
150°	271.7	280.3	318.9	362.8	383.7
152.5°	278.8	287.9	319.9	355.7	375.1
155°	288.1	294.8	322.7	346.9	361.0
157.5°	299.6	303.7	323.3	342.9	353.0
160°	305.7	308.7	325.8	339.8	348.4
162.5°	309.2	312.8	326.3	337.3	343.9
165°	318.3	319.5	326.4	333.5	338.4
167.5°	324.4	323.3	329.3	332.5	334.5
170°	326.4	325.8	328.3	329.0	331.5
172.5°	331.0	328.9	329.8	328.0	329.9
175°	333.3	331.5	330.2	328.3	325.8
177.5°	334.4	331.4	329.8	327.8	328.3
180°	330.8	330.8	330.8	330.8	330.8

(END OF REPORT)