

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: P523950

Luminaire Tested: **SQ4-PP3-150U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523950
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-PP3-150U-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 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

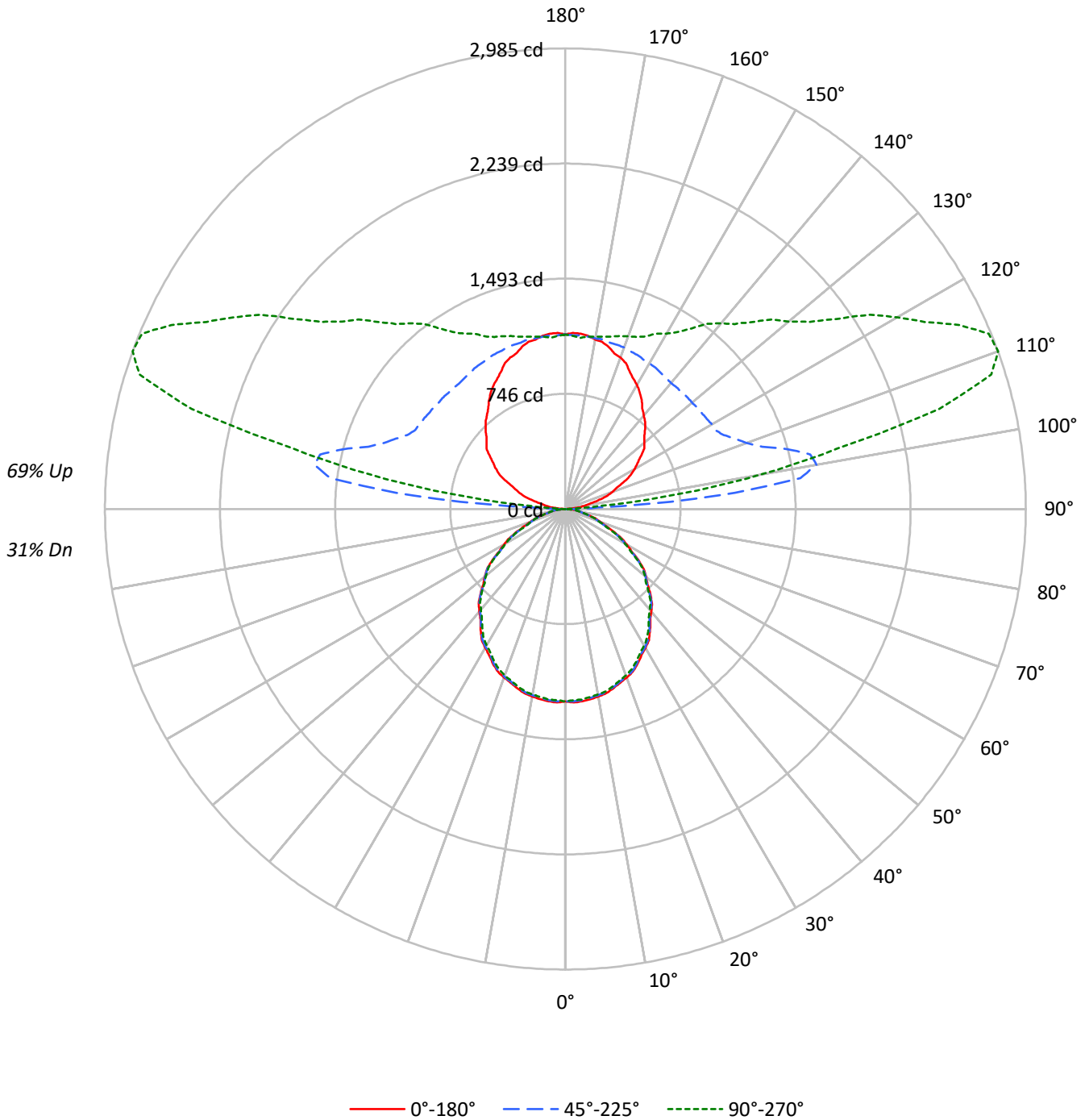
Lumens per Lamp: N/A
Luminaire Lumens: 10214.3 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 82.8
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	68	77	71	66	61	56	53	50	43	41	39	31	29	28	22
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	25	24	19
4	71	61	53	47	64	55	49	43	44	39	36	34	31	28	24	22	21	16
5	65	54	46	41	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

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	1.2
10°-20°	336.7	3.3
20°-30°	504.3	4.9
30°-40°	591.5	5.8
40°-50°	593.4	5.8
50°-60°	506.2	5.0
60°-70°	330.1	3.2
70°-80°	165.6	1.6
80°-90°	45.8	0.4
90°-100°	515.2	5.0
100°-110°	1465.8	14.4
110°-120°	1404.4	13.7
120°-130°	1111.5	10.9
130°-140°	892.2	8.7
140°-150°	698.5	6.8
150°-160°	511.1	5.0
160°-170°	316.6	3.1
170°-180°	107.4	1.1
0°-30°	958.9	9.4
0°-40°	1550.5	15.2
0°-60°	2650.1	25.9
0°-90°	3191.7	31.2
90°-120°	3385.4	33.1
90°-150°	6087.6	59.6
90°-180°	7023.0	68.8
0°-180°	10214.3	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	4
95°	56	222	997	345	213	64
105°	228	346	1494	2639	2508	241
115°	423	512	1133	2400	2818	417
125°	598	663	1081	1794	2145	535
135°	731	792	1068	1516	1713	564
145°	862	906	1077	1312	1429	538
155°	984	1008	1103	1185	1234	455
165°	1088	1092	1116	1140	1156	306
175°	1139	1133	1128	1122	1113	108
180°	1131	1131	1131	1131	1131	

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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°	17.2	91.2	211.5	61.6	46.4
95°	55.9	221.9	997.3	345.2	212.8
97.5°	102.7	259.9	1535.9	1099.1	753.1
100°	135.4	282.5	1652.8	1674.2	1289.6
102.5°	171.5	306.9	1627.1	2143.0	1807.2
105°	227.8	345.5	1493.8	2638.6	2508.3
107.5°	285.0	390.5	1338.2	2778.3	2894.3
110°	324.6	423.3	1248.8	2724.8	2985.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	362.4	456.1	1188.6	2598.4	2970.0
115°	423.4	511.7	1132.7	2399.6	2817.8
117.5°	477.2	560.0	1099.6	2182.2	2625.2
120°	520.1	589.5	1096.2	2058.0	2482.5
122.5°	554.5	623.9	1087.6	1949.0	2343.2
125°	597.5	662.7	1081.1	1794.1	2145.0
127.5°	644.4	705.3	1077.7	1701.5	1990.7
130°	668.4	729.4	1072.5	1637.1	1889.3
132.5°	694.2	753.5	1072.5	1586.8	1818.8
135°	730.8	791.7	1068.2	1515.5	1713.0
137.5°	765.2	824.4	1067.8	1455.1	1625.8
140°	791.0	851.9	1066.1	1405.1	1569.0
142.5°	820.2	871.0	1071.2	1365.2	1512.3
145°	861.9	906.0	1076.8	1311.6	1429.3
147.5°	897.6	940.4	1086.3	1257.5	1359.2
150°	928.5	957.9	1089.7	1239.6	1311.1
152.5°	952.6	983.7	1093.2	1215.5	1281.9
155°	984.4	1007.5	1102.6	1185.4	1233.7
157.5°	1023.9	1037.8	1104.8	1171.7	1206.2
160°	1044.6	1055.1	1113.4	1161.3	1190.7
162.5°	1056.6	1068.8	1115.1	1152.6	1175.3
165°	1087.6	1091.8	1115.5	1139.5	1156.3
167.5°	1108.6	1104.8	1125.4	1136.3	1143.0
170°	1115.5	1113.4	1122.0	1124.3	1132.7
172.5°	1131.0	1123.8	1127.1	1120.8	1127.5
175°	1139.2	1132.8	1128.4	1121.8	1113.4
177.5°	1142.6	1132.5	1127.1	1120.3	1122.0
180°	1130.6	1130.6	1130.6	1130.6	1130.6

(END OF REPORT)