

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: P523947

Luminaire Tested: **SQ4-PP3-150U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523947
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9802.6 lumens
Efficiency: N/A
Efficacy: 118.0 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

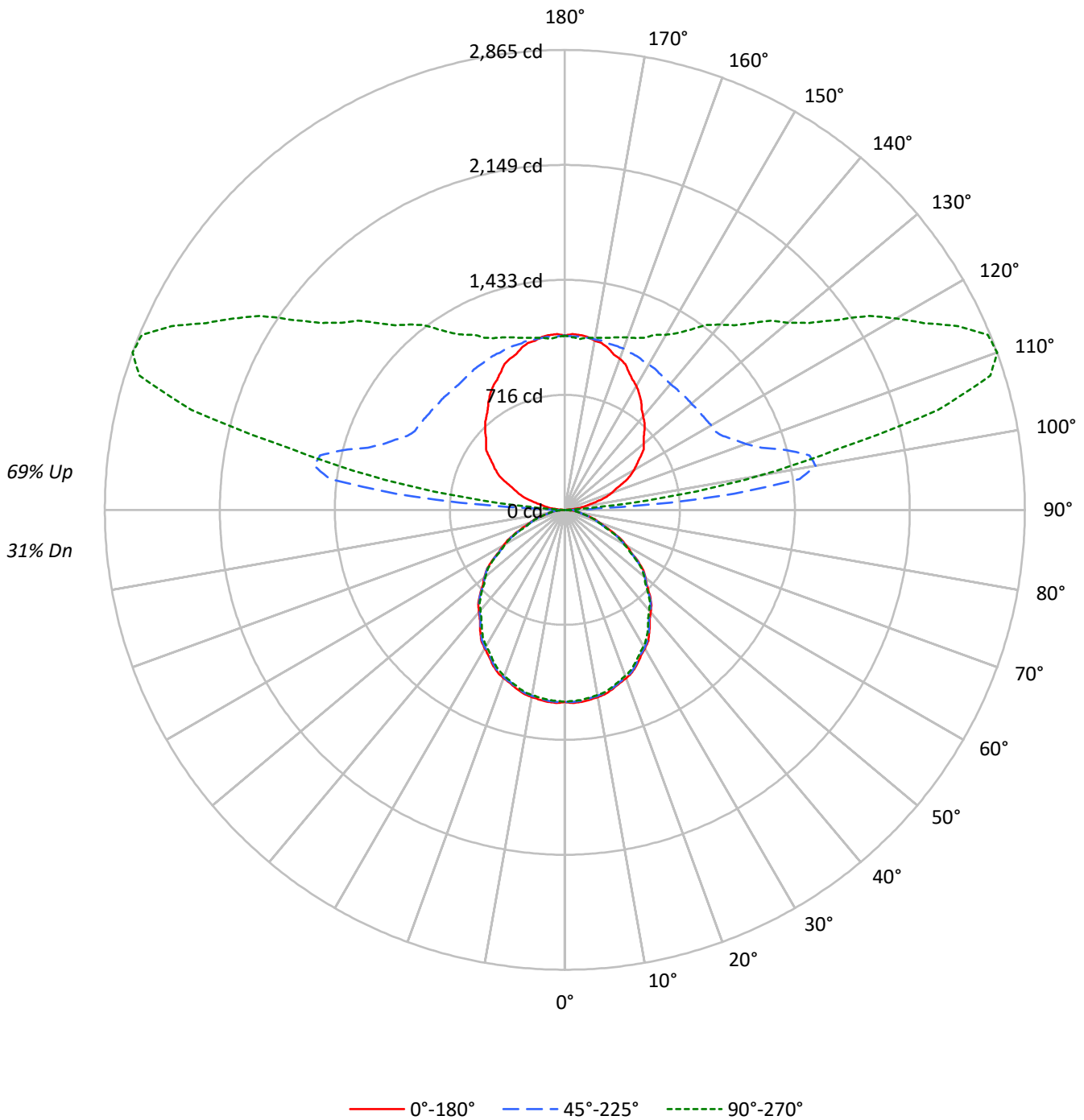
Input Watts (W): 83.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	11042	11042	11042
5°	11122	11054	11016
10°	11104	11025	10976
15°	11030	10970	10910
20°	10957	10895	10813
25°	10826	10752	10645
30°	10627	10570	10436
35°	10349	10278	10148
40°	10017	9954	9841
45°	9744	9675	9580
50°	9394	9334	9244
55°	8908	8791	8723
60°	8110	7877	7839
65°	7143	6846	6824
70°	6169	5913	5913
75°	5308	5233	5158
80°	4681	4739	4628
85°	3663	4001	4001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	1.2
10°-20°	323.1	3.3
20°-30°	484.0	4.9
30°-40°	567.7	5.8
40°-50°	569.5	5.8
50°-60°	485.8	5.0
60°-70°	316.8	3.2
70°-80°	158.9	1.6
80°-90°	44.0	0.4
90°-100°	494.4	5.0
100°-110°	1406.7	14.4
110°-120°	1347.8	13.7
120°-130°	1066.7	10.9
130°-140°	856.2	8.7
140°-150°	670.3	6.8
150°-160°	490.5	5.0
160°-170°	303.8	3.1
170°-180°	103.1	1.1
0°-30°	920.3	9.4
0°-40°	1488.0	15.2
0°-60°	2543.2	25.9
0°-90°	3063.0	31.2
90°-120°	3249.0	33.1
90°-150°	5842.2	59.6
90°-180°	6740.0	68.8
0°-180°	9802.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1197	1197	1197	1197	1197	
5°	1201	1190	1194	1189	1189	114
15°	1155	1144	1148	1144	1142	326
25°	1064	1051	1056	1047	1046	489
35°	919	910	912	902	901	574
45°	747	742	742	734	734	575
55°	554	552	546	543	542	492
65°	327	321	314	312	313	327
75°	149	149	147	146	145	162
85°	35	38	38	38	38	41
90°	0	0	0	0	0	4
95°	54	213	957	331	204	61
105°	219	332	1434	2532	2407	231
115°	406	491	1087	2303	2704	400
125°	573	636	1038	1722	2059	513
135°	701	760	1025	1454	1644	541
145°	827	870	1033	1259	1372	517
155°	945	967	1058	1138	1184	437
165°	1044	1048	1070	1094	1110	294
175°	1093	1087	1083	1076	1068	104
180°	1085	1085	1085	1085	1085	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1196.8	1196.8	1196.8	1196.8	1196.8
2.5°	1204.3	1194.5	1196.8	1195.0	1190.0
5°	1200.9	1189.7	1193.6	1189.4	1189.4
7.5°	1192.8	1180.5	1184.4	1180.2	1180.0
10°	1185.2	1172.9	1176.8	1172.6	1171.6
12.5°	1174.3	1162.0	1166.8	1161.7	1161.5
15°	1154.8	1143.5	1148.5	1144.3	1142.2
17.5°	1132.8	1120.5	1126.5	1120.6	1119.8
20°	1116.0	1103.7	1109.7	1101.3	1101.3
22.5°	1095.9	1083.5	1090.4	1079.5	1079.5
25°	1063.5	1051.2	1056.2	1046.7	1045.7
27.5°	1025.2	1013.1	1018.2	1007.5	1007.3
30°	997.5	986.2	992.2	980.7	979.6
32.5°	967.3	956.8	961.2	949.6	948.6
35°	918.8	909.6	912.5	902.0	901.0
37.5°	867.8	858.4	861.7	852.7	852.3
40°	831.7	825.6	826.5	819.1	817.1
42.5°	798.2	791.2	792.1	784.7	784.3
45°	746.8	741.7	741.5	734.2	734.2
47.5°	692.2	688.4	687.2	681.1	680.9
50°	654.5	651.4	650.3	645.0	644.0
52.5°	615.1	613.6	610.0	605.6	605.4
55°	553.8	551.7	546.5	543.3	542.3
57.5°	487.3	483.2	477.2	472.6	473.5
60°	439.5	435.4	426.9	424.8	424.8
62.5°	393.3	388.4	379.9	377.0	378.6
65°	327.2	321.1	313.6	311.5	312.6
67.5°	267.3	261.7	253.6	253.6	252.8
70°	228.7	225.6	219.2	219.2	219.2
72.5°	194.2	192.8	188.2	188.1	187.3
75°	148.9	148.9	146.8	145.8	144.7
77.5°	111.6	112.0	111.0	109.9	108.0
80°	88.1	90.2	89.2	88.1	87.1
82.5°	66.3	68.3	68.2	66.3	66.1
85°	34.6	37.7	37.8	37.8	37.8
87.5°	9.2	12.5	13.4	13.4	14.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.5	87.5	203.0	59.1	44.6
95°	53.6	213.0	957.1	331.3	204.2
97.5°	98.6	249.5	1474.0	1054.7	722.8
100°	129.9	271.1	1586.2	1606.7	1237.6
102.5°	164.6	294.5	1561.5	2056.6	1734.3
105°	218.6	331.6	1433.6	2532.2	2407.2
107.5°	273.5	374.8	1284.2	2666.3	2777.6
110°	311.5	406.3	1198.4	2615.0	2865.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	347.8	437.7	1140.7	2493.7	2850.2
115°	406.4	491.1	1087.0	2302.8	2704.2
117.5°	457.9	537.4	1055.3	2094.2	2519.4
120°	499.2	565.7	1052.0	1975.0	2382.4
122.5°	532.2	598.7	1043.7	1870.4	2248.8
125°	573.4	636.0	1037.5	1721.8	2058.6
127.5°	618.4	676.9	1034.2	1632.9	1910.5
130°	641.5	700.0	1029.3	1571.1	1813.1
132.5°	666.3	723.1	1029.3	1522.8	1745.5
135°	701.3	759.8	1025.2	1454.4	1644.0
137.5°	734.3	791.2	1024.7	1396.5	1560.2
140°	759.1	817.6	1023.1	1348.5	1505.8
142.5°	787.1	835.9	1028.0	1310.1	1451.3
145°	827.1	869.5	1033.4	1258.7	1371.7
147.5°	861.4	902.5	1042.5	1206.8	1304.4
150°	891.1	919.3	1045.8	1189.7	1258.2
152.5°	914.2	944.0	1049.1	1166.5	1230.2
155°	944.7	966.9	1058.2	1137.6	1184.0
157.5°	982.7	996.0	1060.2	1124.5	1157.6
160°	1002.5	1012.6	1068.5	1114.5	1142.7
162.5°	1014.0	1025.7	1070.1	1106.1	1127.9
165°	1043.7	1047.8	1070.5	1093.6	1109.7
167.5°	1063.9	1060.3	1080.0	1090.5	1096.9
170°	1070.5	1068.5	1076.7	1079.0	1087.0
172.5°	1085.4	1078.5	1081.7	1075.6	1082.1
175°	1093.2	1087.2	1082.9	1076.5	1068.5
177.5°	1096.5	1086.8	1081.7	1075.1	1076.7
180°	1085.0	1085.0	1085.0	1085.0	1085.0

(END OF REPORT)