

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: P523948

Luminaire Tested: **SQ4-PP3-150U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523948
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9960.7 lumens
Efficiency: N/A
Efficacy: 120.0 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

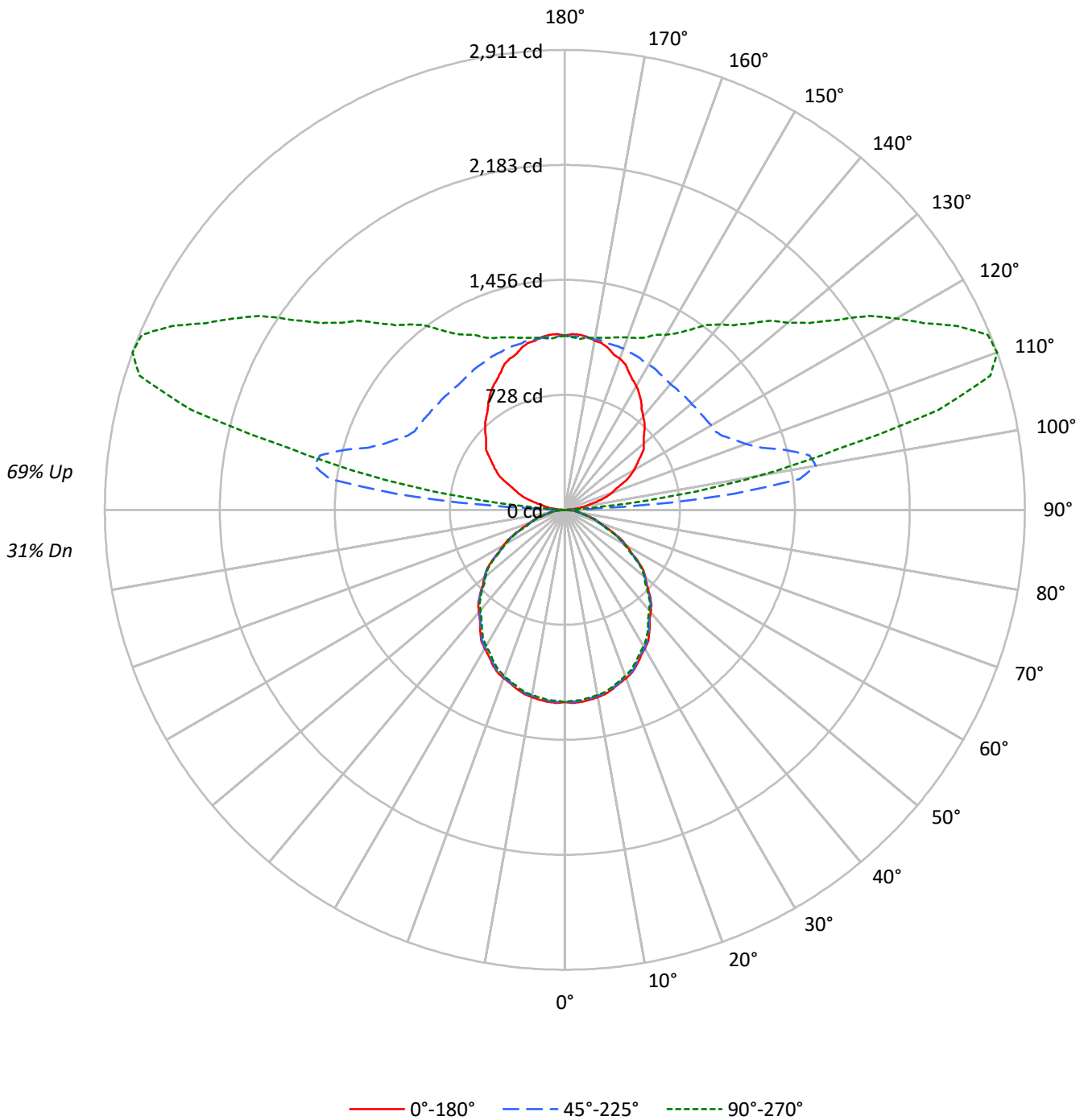
Input Watts (W): 83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	11220	11220	11220
5°	11302	11233	11193
10°	11283	11203	11153
15°	11208	11147	11086
20°	11134	11071	10988
25°	11002	10925	10817
30°	10798	10741	10604
35°	10515	10443	10311
40°	10180	10115	9999
45°	9901	9832	9734
50°	9545	9485	9393
55°	9051	8932	8863
60°	8241	8005	7964
65°	7259	6958	6934
70°	6266	6007	6007
75°	5393	5319	5244
80°	4755	4814	4702
85°	3726	4065	4065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	1.2
10°-20°	328.3	3.3
20°-30°	491.8	4.9
30°-40°	576.8	5.8
40°-50°	578.7	5.8
50°-60°	493.6	5.0
60°-70°	321.9	3.2
70°-80°	161.5	1.6
80°-90°	44.7	0.4
90°-100°	502.4	5.0
100°-110°	1429.4	14.4
110°-120°	1369.6	13.7
120°-130°	1083.9	10.9
130°-140°	870.0	8.7
140°-150°	681.1	6.8
150°-160°	498.4	5.0
160°-170°	308.7	3.1
170°-180°	104.8	1.1
0°-30°	935.1	9.4
0°-40°	1512.0	15.2
0°-60°	2584.3	25.9
0°-90°	3112.4	31.2
90°-120°	3301.4	33.1
90°-150°	5936.5	59.6
90°-180°	6848.0	68.8
0°-180°	9960.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1220	1209	1213	1209	1209	116
15°	1173	1162	1167	1163	1161	331
25°	1081	1068	1073	1064	1063	497
35°	934	924	927	916	916	583
45°	759	754	754	746	746	584
55°	563	561	555	552	551	500
65°	332	326	319	317	318	332
75°	151	151	149	148	147	164
85°	35	38	38	38	38	41
90°	0	0	0	0	0	4
95°	54	216	972	337	208	62
105°	222	337	1457	2573	2446	235
115°	413	499	1105	2340	2748	407
125°	583	646	1054	1750	2092	522
135°	713	772	1042	1478	1670	550
145°	840	884	1050	1279	1394	525
155°	960	982	1075	1156	1203	444
165°	1061	1065	1088	1111	1128	298
175°	1111	1105	1100	1094	1086	105
180°	1102	1102	1102	1102	1102	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1216.1	1216.1	1216.1	1216.1	1216.1
2.5°	1223.7	1213.7	1216.1	1214.2	1209.2
5°	1220.3	1208.9	1212.9	1208.6	1208.6
7.5°	1212.0	1199.5	1203.5	1199.2	1199.0
10°	1204.3	1191.8	1195.8	1191.5	1190.5
12.5°	1193.2	1180.7	1185.6	1180.5	1180.2
15°	1173.4	1162.0	1167.0	1162.7	1160.6
17.5°	1151.0	1138.5	1144.6	1138.7	1137.8
20°	1134.0	1121.5	1127.6	1119.1	1119.1
22.5°	1113.5	1101.0	1108.0	1096.9	1096.9
25°	1080.7	1068.2	1073.2	1063.6	1062.6
27.5°	1041.7	1029.4	1034.7	1023.8	1023.6
30°	1013.6	1002.1	1008.2	996.5	995.4
32.5°	982.9	972.2	976.7	964.9	963.9
35°	933.6	924.2	927.2	916.5	915.5
37.5°	881.8	872.2	875.6	866.5	866.1
40°	845.2	838.9	839.8	832.3	830.2
42.5°	811.1	804.0	804.9	797.4	797.0
45°	758.8	753.6	753.5	746.0	746.0
47.5°	703.4	699.5	698.3	692.1	691.9
50°	665.0	661.9	660.8	655.4	654.4
52.5°	625.0	623.5	619.9	615.4	615.2
55°	562.7	560.6	555.3	552.1	551.0
57.5°	495.2	491.0	484.9	480.3	481.1
60°	446.6	442.4	433.8	431.6	431.6
62.5°	399.7	394.7	386.0	383.1	384.7
65°	332.5	326.3	318.7	316.6	317.6
67.5°	271.6	265.9	257.7	257.7	256.9
70°	232.3	229.2	222.7	222.7	222.7
72.5°	197.4	195.9	191.2	191.2	190.3
75°	151.3	151.3	149.2	148.1	147.1
77.5°	113.4	113.8	112.8	111.7	109.8
80°	89.5	91.6	90.6	89.5	88.5
82.5°	67.4	69.4	69.3	67.4	67.1
85°	35.2	38.3	38.4	38.4	38.4
87.5°	9.4	12.7	13.6	13.7	14.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.8	88.9	206.2	60.0	45.3
95°	54.5	216.4	972.5	336.6	207.5
97.5°	100.2	253.5	1497.8	1071.8	734.4
100°	132.0	275.5	1611.8	1632.6	1257.6
102.5°	167.3	299.2	1586.6	2089.8	1762.3
105°	222.2	336.9	1456.7	2573.1	2446.0
107.5°	277.9	380.8	1305.0	2709.3	2822.4
110°	316.5	412.8	1217.8	2657.2	2911.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	353.4	444.8	1159.1	2533.9	2896.2
115°	412.9	499.0	1104.6	2340.0	2747.8
117.5°	465.3	546.1	1072.3	2128.0	2560.0
120°	507.2	574.9	1068.9	2006.9	2420.8
122.5°	540.8	608.4	1060.6	1900.6	2285.0
125°	582.7	646.2	1054.3	1749.5	2091.8
127.5°	628.4	687.8	1050.9	1659.3	1941.3
130°	651.8	711.3	1045.9	1596.4	1842.4
132.5°	677.0	734.8	1045.9	1547.4	1773.6
135°	712.6	772.1	1041.7	1477.8	1670.5
137.5°	746.2	804.0	1041.3	1419.0	1585.4
140°	771.3	830.7	1039.6	1370.2	1530.1
142.5°	799.8	849.4	1044.6	1331.3	1474.7
145°	840.5	883.5	1050.1	1279.1	1393.8
147.5°	875.3	917.1	1059.3	1226.3	1325.5
150°	905.5	934.2	1062.7	1208.9	1278.5
152.5°	928.9	959.3	1066.0	1185.3	1250.0
155°	960.0	982.5	1075.2	1156.0	1203.1
157.5°	998.5	1012.0	1077.3	1142.6	1176.3
160°	1018.6	1028.9	1085.7	1132.5	1161.2
162.5°	1030.4	1042.3	1087.4	1123.9	1146.1
165°	1060.6	1064.7	1087.8	1111.2	1127.6
167.5°	1081.1	1077.4	1097.4	1108.1	1114.6
170°	1087.8	1085.8	1094.1	1096.4	1104.6
172.5°	1102.9	1095.9	1099.1	1093.0	1099.5
175°	1110.9	1104.7	1100.4	1093.9	1085.7
177.5°	1114.2	1104.4	1099.1	1092.5	1094.1
180°	1102.5	1102.5	1102.5	1102.5	1102.5

(END OF REPORT)