

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: P523960

Luminaire Tested: **SQ4-PP3-150U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523960
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-100D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1000 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: 10766.1 lumens
Efficiency: N/A
Efficacy: 115.0 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

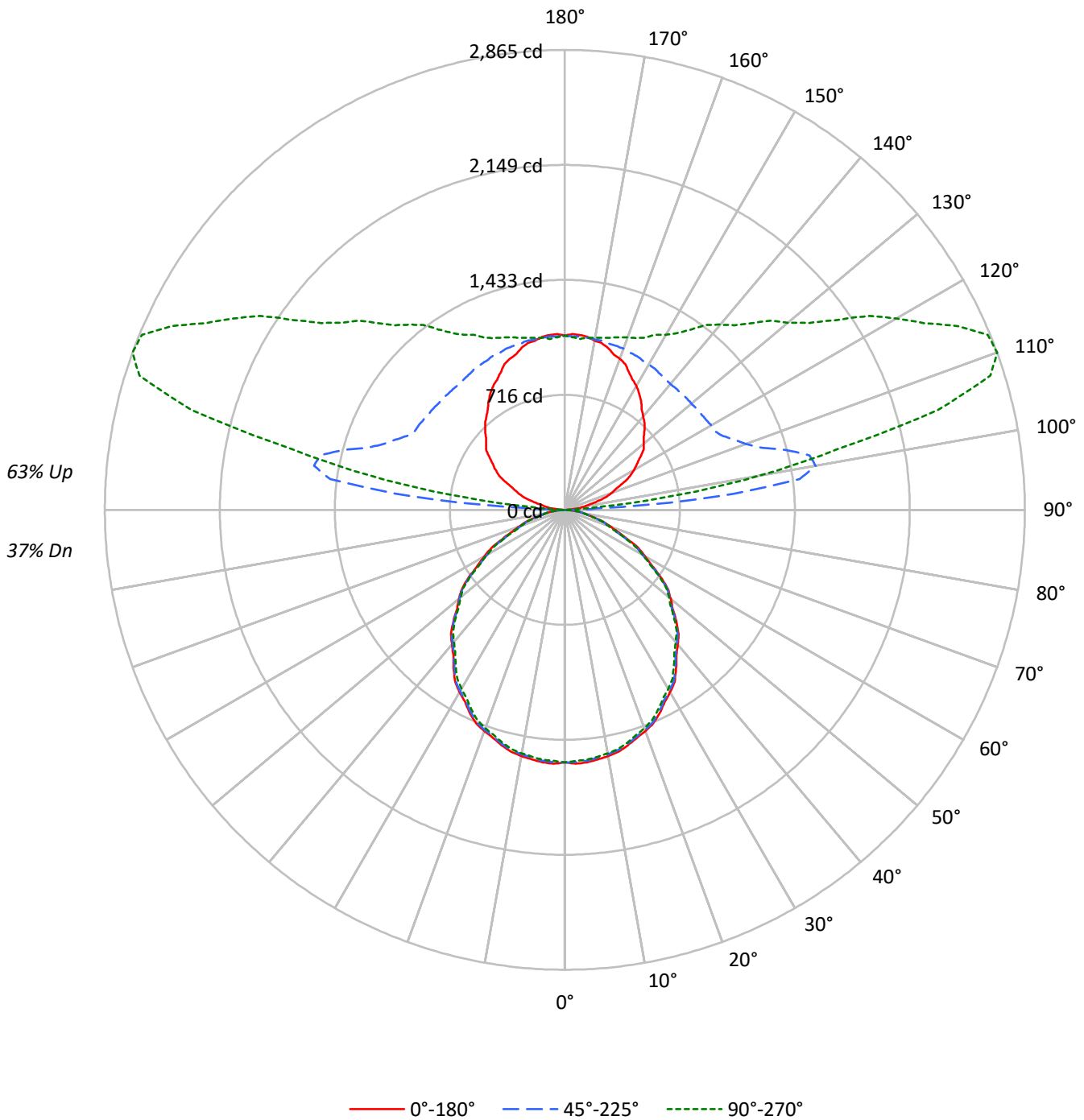
Input Watts (W): 93.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	37
1	95	91	87	84	86	83	79	77	67	65	63	53	51	50	40	39	38	32
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	63	57	72	64	58	53	52	48	44	41	38	36	31	29	27	23
4	72	62	54	48	65	56	50	45	46	41	38	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	37	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	25	22	25	21	18	19	16	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	17	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14515	14515	14515
5°	14621	14532	14481
10°	14596	14493	14428
15°	14500	14421	14342
20°	14403	14323	14214
25°	14233	14135	13994
30°	13969	13895	13720
35°	13604	13511	13340
40°	13169	13086	12936
45°	12809	12719	12594
50°	12350	12271	12152
55°	11710	11556	11466
60°	10660	10355	10304
65°	9392	9001	8970
70°	8109	7774	7774
75°	6980	6880	6784
80°	6153	6227	6078
85°	4817	5251	5251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.8	1.4
10°-20°	424.8	3.9
20°-30°	636.2	5.9
30°-40°	746.3	6.9
40°-50°	748.6	7.0
50°-60°	638.6	5.9
60°-70°	416.5	3.9
70°-80°	209.0	1.9
80°-90°	57.8	0.5
90°-100°	494.4	4.6
100°-110°	1406.7	13.1
110°-120°	1347.8	12.5
120°-130°	1066.7	9.9
130°-140°	856.2	8.0
140°-150°	670.3	6.2
150°-160°	490.5	4.6
160°-170°	303.8	2.8
170°-180°	103.1	1.0
0°-30°	1209.8	11.2
0°-40°	1956.0	18.2
0°-60°	3343.3	31.1
0°-90°	4026.5	37.4
90°-120°	3249.0	30.2
90°-150°	5842.2	54.3
90°-180°	6740.0	62.6
0°-180°	10766.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1573	1573	1573	1573	1573	
5°	1579	1564	1569	1564	1564	150
15°	1518	1503	1510	1504	1502	428
25°	1398	1382	1388	1376	1375	643
35°	1208	1196	1200	1186	1184	754
45°	982	975	975	965	965	756
55°	728	725	718	714	713	647
65°	430	422	412	410	411	429
75°	196	196	193	192	190	212
85°	46	50	50	50	50	53
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°	1573.2	1573.2	1573.2	1573.2	1573.2
2.5°	1583.1	1570.2	1573.2	1570.9	1564.4
5°	1578.7	1563.9	1569.1	1563.6	1563.6
7.5°	1568.0	1551.8	1556.9	1551.4	1551.2
10°	1558.0	1541.9	1547.0	1541.5	1540.1
12.5°	1543.7	1527.5	1533.8	1527.2	1526.9
15°	1518.1	1503.2	1509.8	1504.2	1501.5
17.5°	1489.1	1472.9	1480.8	1473.1	1472.0
20°	1467.0	1450.9	1458.8	1447.7	1447.7
22.5°	1440.6	1424.4	1433.4	1419.1	1419.1
25°	1398.1	1381.9	1388.5	1376.0	1374.7
27.5°	1347.6	1331.7	1338.5	1324.5	1324.2
30°	1311.2	1296.4	1304.3	1289.2	1287.8
32.5°	1271.5	1257.8	1263.5	1248.3	1247.0
35°	1207.8	1195.7	1199.6	1185.7	1184.4
37.5°	1140.8	1128.4	1132.8	1121.0	1120.4
40°	1093.4	1085.3	1086.5	1076.8	1074.1
42.5°	1049.3	1040.1	1041.3	1031.6	1031.1
45°	981.7	975.0	974.8	965.2	965.2
47.5°	910.0	904.9	903.4	895.4	895.1
50°	860.4	856.3	854.9	847.9	846.6
52.5°	808.5	806.6	801.9	796.1	795.8
55°	728.0	725.3	718.4	714.2	712.8
57.5°	640.6	635.2	627.4	621.3	622.4
60°	577.7	572.3	561.2	558.4	558.4
62.5°	517.1	510.6	499.4	495.6	497.7
65°	430.2	422.1	412.3	409.5	410.9
67.5°	351.3	344.0	333.4	333.4	332.3
70°	300.6	296.5	288.2	288.2	288.2
72.5°	255.4	253.5	247.4	247.3	246.3
75°	195.8	195.8	193.0	191.6	190.3
77.5°	146.7	147.2	145.9	144.4	142.0
80°	115.8	118.5	117.2	115.8	114.4
82.5°	87.1	89.8	89.6	87.1	86.9
85°	45.5	49.5	49.6	49.6	49.6
87.5°	12.1	16.4	17.6	17.7	18.8
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)