

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: P562119

Luminaire Tested: **SQ4-PR1-150U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562119
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-150U-100D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1000 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: 10915.6 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

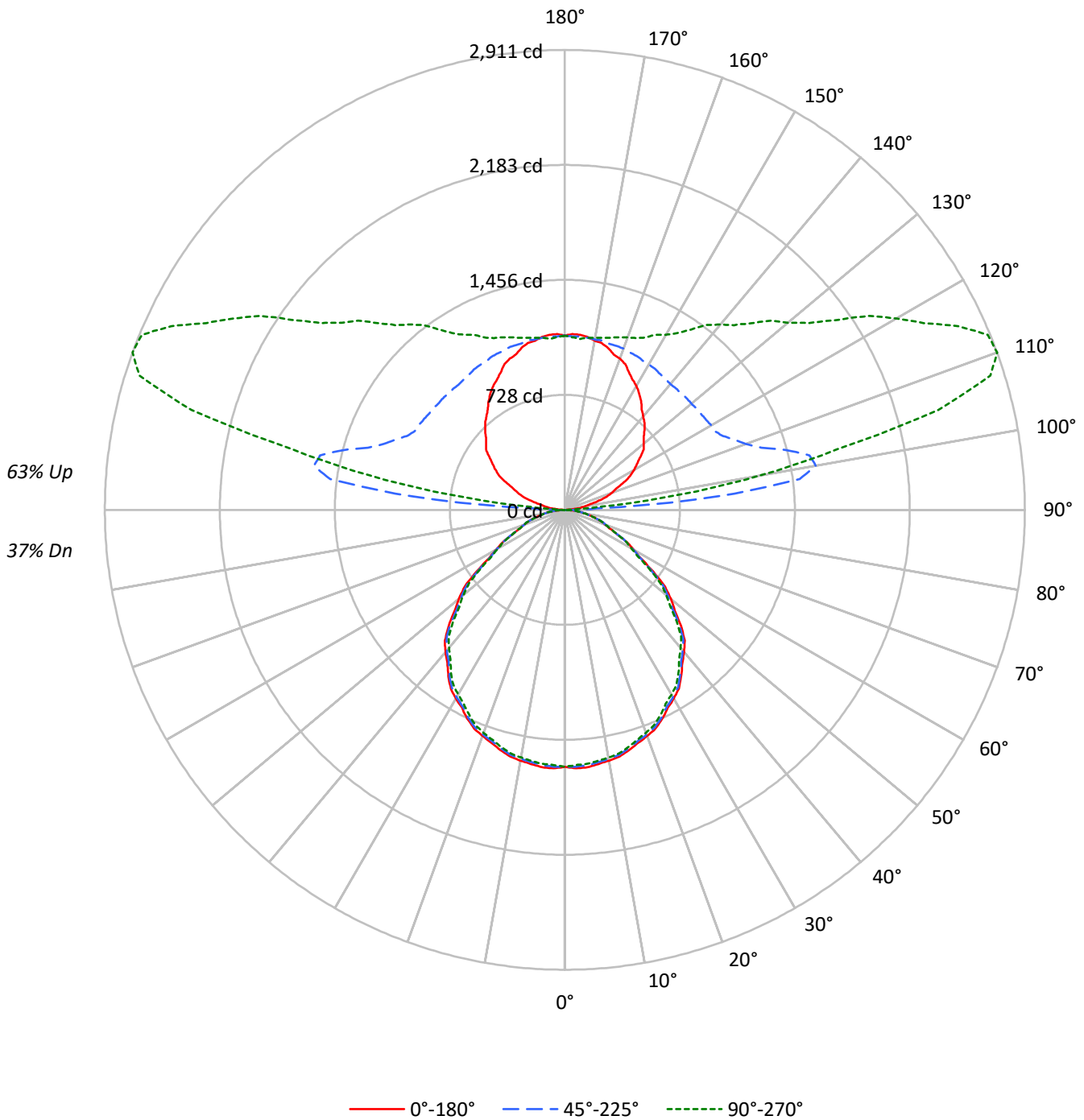
Input Watts (W): 93.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44	37				
1	95	91	87	84	86	83	80	77	67	65	63	53	51	50	40	39	38	32				
2	87	80	74	69	78	72	67	63	59	55	52	47	44	42	35	34	32	27				
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	28	23				
4	73	62	55	49	66	57	50	45	46	42	38	37	34	31	28	26	24	20				
5	67	55	48	42	60	51	44	39	42	36	33	33	30	27	25	23	21	17				
6	61	50	42	36	55	45	39	34	37	32	28	30	26	23	23	20	18	15				
7	57	45	37	32	51	41	34	29	34	29	25	27	23	21	21	18	16	14				
8	52	41	33	28	48	37	31	26	31	26	22	25	21	18	19	17	15	12				
9	49	37	30	25	44	34	27	23	28	23	20	23	19	17	18	15	13	11				
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15011	15011	15011
5°	15146	15029	14952
10°	15098	14993	14915
15°	15031	14938	14858
20°	14956	14860	14750
25°	14851	14751	14580
30°	14691	14586	14377
35°	14474	14347	14142
40°	14144	13991	13739
45°	13567	13330	13056
50°	12552	12249	12008
55°	10956	10708	10481
60°	9232	9154	8973
65°	7986	8016	7955
70°	7335	7372	7372
75°	7044	7044	7094
80°	6626	6700	6626
85°	5335	5939	5939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	1.4
10°-20°	440.2	4.0
20°-30°	664.0	6.1
30°-40°	791.1	7.2
40°-50°	780.0	7.1
50°-60°	596.1	5.5
60°-70°	368.9	3.4
70°-80°	209.5	1.9
80°-90°	63.7	0.6
90°-100°	502.4	4.6
100°-110°	1429.4	13.1
110°-120°	1369.6	12.5
120°-130°	1083.9	9.9
130°-140°	870.0	8.0
140°-150°	681.1	6.2
150°-160°	498.4	4.6
160°-170°	308.7	2.8
170°-180°	104.8	1.0
0°-30°	1258.0	11.5
0°-40°	2049.1	18.8
0°-60°	3425.2	31.4
0°-90°	4067.3	37.3
90°-120°	3301.4	30.2
90°-150°	5936.5	54.4
90°-180°	6848.0	62.7
0°-180°	10915.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1627	1627	1627	1627	1627	
5°	1635	1618	1623	1617	1614	155
15°	1574	1557	1564	1558	1556	444
25°	1459	1441	1449	1434	1432	671
35°	1285	1270	1274	1257	1256	802
45°	1040	1026	1022	1003	1001	797
55°	681	670	666	654	652	610
65°	366	363	367	364	364	371
75°	198	198	198	199	199	209
85°	50	53	56	56	56	59
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°	1627.0	1627.0	1627.0	1627.0	1627.0
2.5°	1637.1	1622.8	1627.0	1623.5	1615.8
5°	1635.4	1617.6	1622.8	1617.1	1614.4
7.5°	1622.8	1605.3	1610.5	1604.8	1603.2
10°	1611.6	1595.1	1600.4	1594.7	1592.0
12.5°	1599.2	1581.7	1588.0	1581.2	1578.5
15°	1573.7	1557.3	1563.9	1558.3	1555.5
17.5°	1545.7	1528.2	1534.8	1528.3	1524.7
20°	1523.3	1506.9	1513.5	1503.6	1502.3
22.5°	1498.6	1482.2	1488.8	1475.6	1475.4
25°	1458.8	1441.0	1449.0	1433.6	1432.2
27.5°	1411.5	1395.0	1401.7	1385.9	1384.3
30°	1379.0	1362.5	1369.1	1352.3	1349.5
32.5°	1342.0	1326.6	1332.1	1315.3	1313.6
35°	1285.1	1270.0	1273.8	1257.0	1255.6
37.5°	1220.3	1206.6	1208.8	1190.3	1188.9
40°	1174.4	1160.6	1161.7	1142.1	1140.7
42.5°	1123.9	1110.2	1109.0	1089.4	1088.0
45°	1039.8	1026.1	1021.6	1003.3	1000.6
47.5°	944.0	930.3	921.8	906.9	905.0
50°	874.5	860.8	853.4	840.7	836.6
52.5°	799.3	785.6	779.4	767.9	763.7
55°	681.1	670.1	665.7	654.4	651.6
57.5°	568.7	561.3	560.0	549.0	547.9
60°	500.3	496.2	496.1	486.3	486.3
62.5°	442.0	439.0	441.2	434.7	433.6
65°	365.8	363.0	367.2	364.4	364.4
67.5°	305.5	305.5	308.0	306.9	306.9
70°	271.9	271.9	273.3	273.3	273.3
72.5°	241.6	240.5	244.1	244.1	243.0
75°	197.6	197.6	197.6	199.0	199.0
77.5°	153.9	154.1	155.3	155.0	153.9
80°	124.7	126.1	126.1	124.7	124.7
82.5°	95.6	96.9	97.0	96.7	95.6
85°	50.4	53.2	56.1	56.1	56.1
87.5°	14.6	19.0	22.4	22.4	21.3
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)