

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

Brand: CORELITE

Report Number: P522032

Luminaire Tested: SQ4-WB-150U-075D-92765-1D-UNV-STD-W-4_4000K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P522032
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-WB-150U-075D-92765-1D-UNV-STD-W-4_4000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9397.8 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

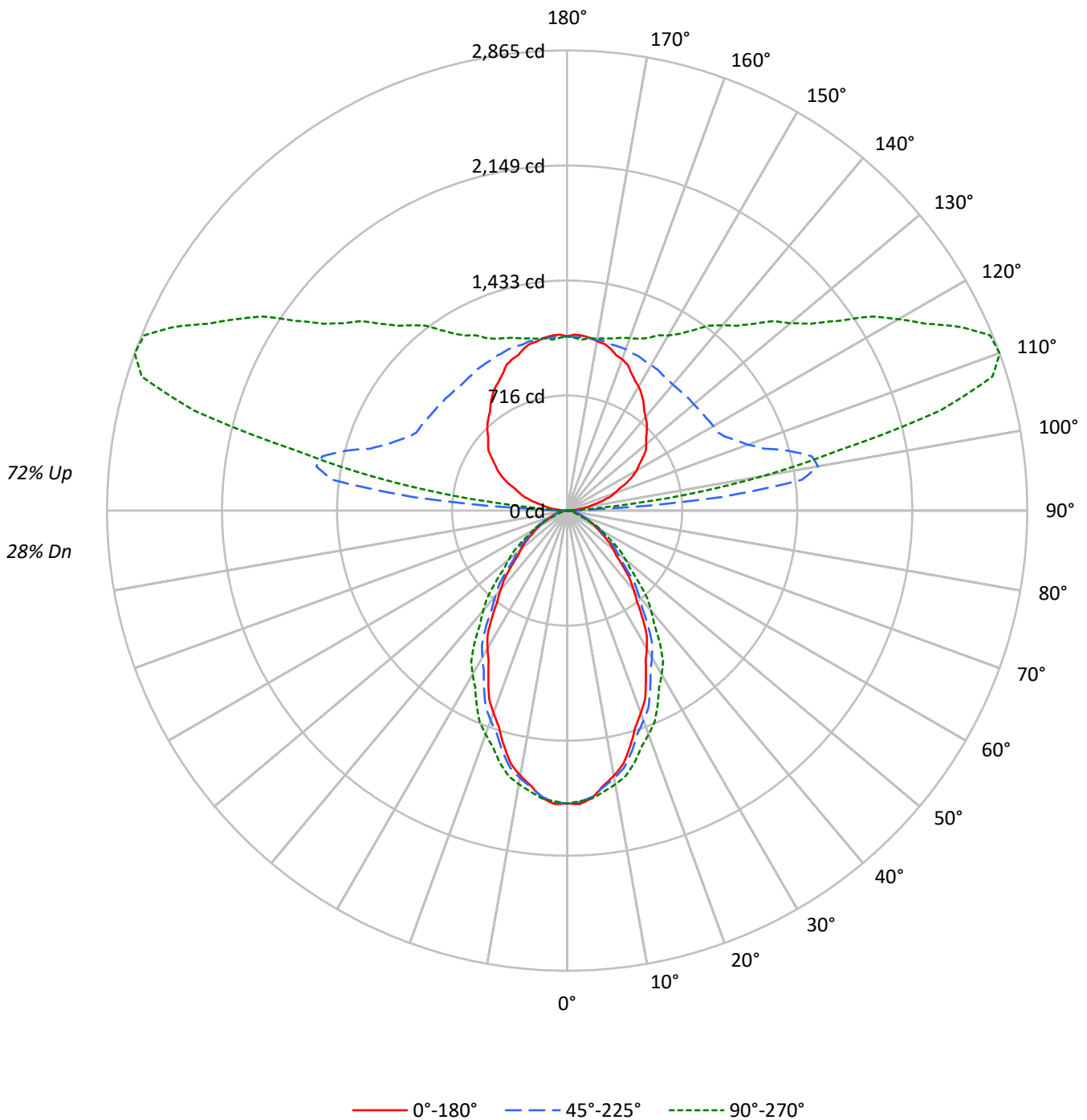
Input Watts (W): 83.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28				
1	94	90	86	83	84	80	78	75	63	61	60	47	46	45	33	32	32	25				
2	86	79	73	69	77	71	66	62	56	53	50	42	41	39	30	29	28	22				
3	79	70	63	58	70	63	57	53	50	46	43	38	36	34	27	26	24	20				
4	72	62	55	50	65	56	50	45	45	41	37	34	32	29	25	23	22	17				
5	66	56	48	43	59	50	44	39	40	36	32	31	28	26	22	21	19	16				
6	61	50	43	37	55	46	39	34	37	32	29	28	25	23	21	19	17	14				
7	57	45	38	33	51	41	35	30	33	29	25	26	23	20	19	17	16	13				
8	53	41	34	29	47	38	31	27	31	26	23	24	21	18	18	16	14	12				
9	49	38	31	26	44	34	28	24	28	24	20	22	19	17	16	14	13	11				
10	46	35	28	23	41	32	26	22	26	21	18	20	17	15	15	13	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16830	16830	16830
5°	16621	16561	16658
10°	15703	15845	16213
15°	14497	14833	15498
20°	13164	13659	14563
25°	11808	12451	13567
30°	10558	11248	12536
35°	9232	9899	11315
40°	7771	8387	9795
45°	6413	6966	8178
50°	5354	5836	6814
55°	4546	5009	5627
60°	3884	4342	4489
65°	3093	3652	2901
70°	2743	2851	1770
75°	2538	2310	1084
80°	2338	2125	935
85°	2117	1948	762

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8178 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	1.8
10°-20°	435.2	4.6
20°-30°	563.7	6.0
30°-40°	552.0	5.9
40°-50°	422.6	4.5
50°-60°	281.6	3.0
60°-70°	153.7	1.6
70°-80°	64.0	0.7
80°-90°	18.1	0.2
90°-100°	494.4	5.3
100°-110°	1406.7	15.0
110°-120°	1347.8	14.3
120°-130°	1066.7	11.4
130°-140°	856.2	9.1
140°-150°	670.3	7.1
150°-160°	490.5	5.2
160°-170°	303.8	3.2
170°-180°	103.1	1.1
0°-30°	1166.3	12.4
0°-40°	1718.3	18.3
0°-60°	2422.4	25.8
0°-90°	2658.2	28.3
90°-120°	3249.0	34.6
90°-150°	5842.2	62.2
90°-180°	6740.0	71.7
0°-180°	9397.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1824	1824	1824	1824	1824	
5°	1795	1777	1788	1792	1799	167
15°	1518	1512	1553	1595	1622	424
25°	1160	1163	1223	1276	1333	533
35°	820	824	879	938	1005	510
45°	492	501	534	574	627	383
55°	283	294	311	323	350	256
65°	142	153	167	146	133	147
75°	71	71	65	44	30	76
85°	20	20	18	12	7	22
90°	0	0	0	0	0	3
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°	1824.2	1824.2	1824.2	1824.2	1824.2
2.5°	1828.7	1812.4	1816.5	1816.4	1811.4
5°	1794.6	1776.6	1788.2	1792.3	1798.6
7.5°	1728.0	1714.4	1735.5	1751.2	1763.9
10°	1676.1	1664.4	1691.3	1714.1	1730.6
12.5°	1615.9	1606.1	1639.5	1670.1	1691.5
15°	1517.7	1512.2	1552.9	1595.1	1622.5
17.5°	1412.5	1409.8	1456.5	1505.8	1540.9
20°	1340.8	1340.0	1391.2	1442.5	1483.2
22.5°	1268.4	1270.1	1323.9	1377.3	1423.7
25°	1159.9	1163.0	1223.1	1276.4	1332.7
27.5°	1059.5	1060.9	1123.0	1179.3	1239.4
30°	991.0	994.9	1055.8	1114.0	1176.7
32.5°	922.4	927.0	986.6	1046.8	1110.7
35°	819.7	823.6	878.9	938.0	1004.6
37.5°	713.7	719.0	768.1	824.0	889.5
40°	645.2	653.0	696.4	749.1	813.3
42.5°	579.2	588.9	629.2	679.1	737.1
45°	491.5	500.9	533.9	574.3	626.8
47.5°	415.9	426.7	452.1	486.9	531.7
50°	373.0	383.2	406.6	432.4	474.7
52.5°	335.2	345.4	366.3	386.2	422.2
55°	282.6	294.3	311.4	323.2	349.8
57.5°	239.3	250.6	264.1	269.5	285.6
60°	210.5	223.0	235.3	234.7	243.3
62.5°	184.3	194.9	207.2	198.7	199.2
65°	141.7	153.4	167.3	146.2	132.9
67.5°	114.5	117.0	131.3	101.9	86.1
70°	101.7	101.7	105.7	78.9	65.6
72.5°	89.5	89.5	85.8	64.2	50.3
75°	71.2	71.2	64.8	44.5	30.4
77.5°	54.9	54.3	49.6	33.2	22.1
80°	44.0	44.0	40.0	26.2	17.6
82.5°	34.4	34.4	31.1	20.5	13.1
85°	20.0	20.0	18.4	11.9	7.2
87.5°	7.0	7.0	6.4	3.8	3.2
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)