

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: P522057

Luminaire Tested: SQ4-WB-150U-125D-92765-1D-UNV-STD-W-4_3500K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P522057
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-125D-92765-1D-UNV-STD-W-4_3500K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10963.2 lumens
Efficiency: N/A
Efficacy: 102.5 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

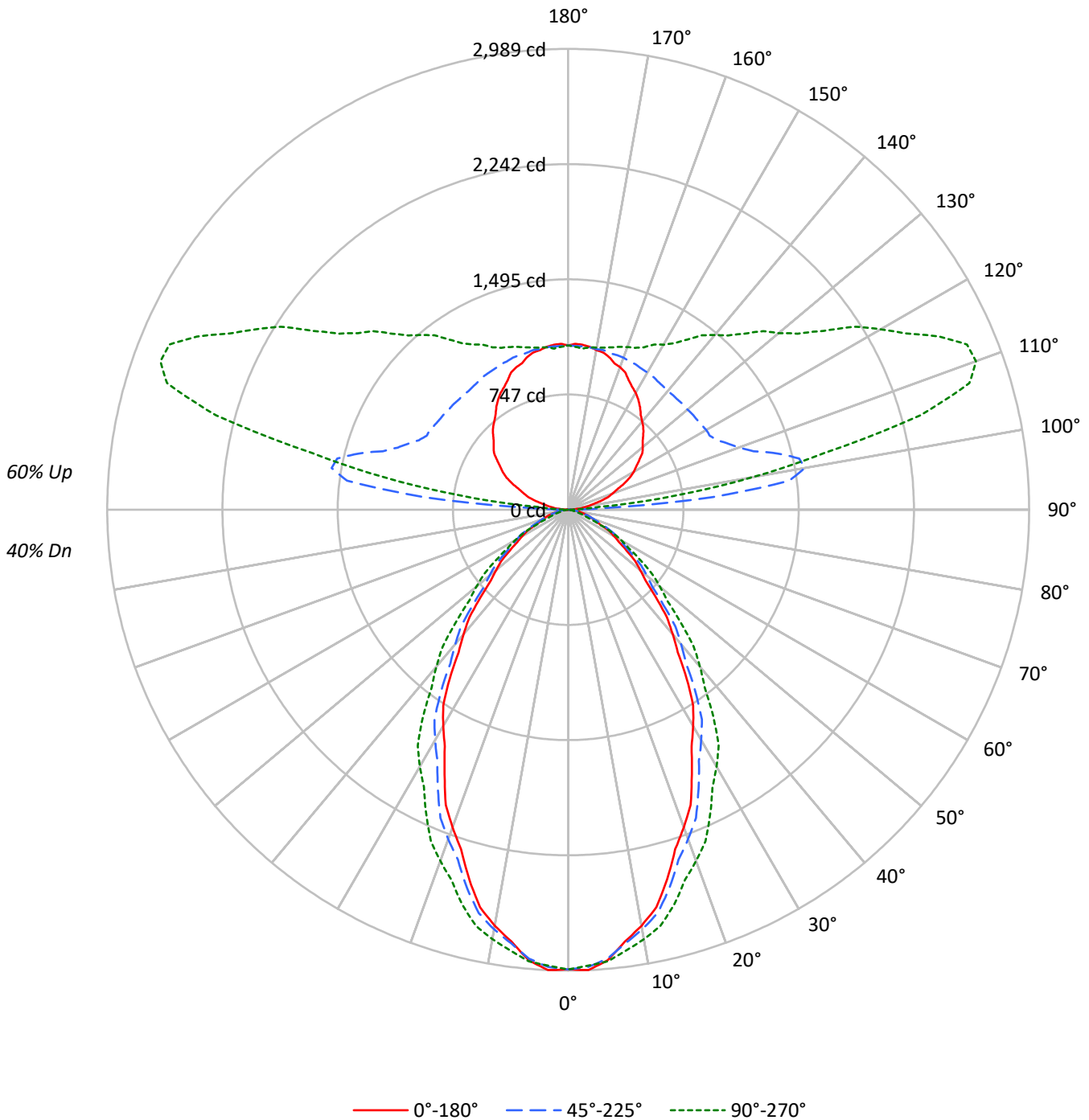
Input Watts (W): 107
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	50	30	10	0														
RCR																																						
0	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40																				
1	96	92	89	86	88	84	81	79	69	67	65	55	54	53	43	42	41	35																				
2	88	82	76	72	80	75	70	66	62	58	56	50	48	46	39	37	36	31																				
3	81	73	66	61	74	67	61	56	55	51	48	45	42	40	35	33	32	27																				
4	75	65	58	52	68	60	53	49	50	45	42	41	37	35	32	30	28	24																				
5	69	58	51	45	63	54	47	42	45	40	37	37	34	31	29	27	25	22																				
6	64	53	45	40	58	49	42	37	41	36	32	34	30	28	27	25	23	20																				
7	59	48	40	35	54	44	38	33	37	32	29	31	27	25	25	23	21	18																				
8	55	44	36	32	50	40	34	30	34	29	26	29	25	22	23	21	19	16																				
9	52	40	33	28	47	37	31	27	32	27	24	26	23	20	22	19	17	15																				
10	48	37	30	26	44	34	28	24	29	25	21	25	21	19	20	18	16	14																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27509	27509	27509
5°	27166	27068	27226
10°	25666	25898	26499
15°	23693	24243	25330
20°	21516	22325	23803
25°	19298	20351	22175
30°	17255	18384	20489
35°	15089	16179	18493
40°	12700	13708	16009
45°	10481	11386	13366
50°	8751	9539	11135
55°	7428	8186	9196
60°	6349	7097	7339
65°	5056	5969	4742
70°	4483	4659	2894
75°	4149	3779	1772
80°	3825	3475	1530
85°	3462	3186	1249

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13366 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.5	2.5
10°-20°	711.3	6.5
20°-30°	921.4	8.4
30°-40°	902.3	8.2
40°-50°	690.6	6.3
50°-60°	460.2	4.2
60°-70°	251.1	2.3
70°-80°	104.6	1.0
80°-90°	29.6	0.3
90°-100°	485.5	4.4
100°-110°	1381.5	12.6
110°-120°	1323.6	12.1
120°-130°	1047.6	9.6
130°-140°	840.8	7.7
140°-150°	658.3	6.0
150°-160°	481.7	4.4
160°-170°	298.3	2.7
170°-180°	101.2	0.9
0°-30°	1906.2	17.4
0°-40°	2808.5	25.6
0°-60°	3959.3	36.1
0°-90°	4344.7	39.6
90°-120°	3190.6	29.1
90°-150°	5737.2	52.3
90°-180°	6618.0	60.4
0°-180°	10963.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2982	2982	2982	2982	2982	
5°	2933	2904	2923	2930	2940	273
15°	2480	2472	2538	2607	2652	693
25°	1896	1901	1999	2086	2178	872
35°	1340	1346	1436	1533	1642	833
45°	803	819	873	939	1024	626
55°	462	481	509	528	572	419
65°	232	251	273	239	217	241
75°	116	116	106	73	50	124
85°	33	33	30	19	12	36
90°	0	0	0	0	0	4
95°	53	209	940	325	200	60
105°	215	326	1408	2487	2364	227
115°	399	482	1068	2262	2656	393
125°	563	624	1019	1691	2022	504
135°	689	746	1007	1428	1614	531
145°	812	854	1015	1236	1347	507
155°	928	950	1039	1117	1163	429
165°	1025	1029	1051	1074	1090	288
175°	1074	1068	1064	1057	1049	102
180°	1066	1066	1066	1066	1066	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2981.6	2981.6	2981.6	2981.6	2981.6
2.5°	2988.9	2962.3	2969.0	2968.8	2960.7
5°	2933.2	2903.8	2922.7	2929.5	2939.7
7.5°	2824.3	2802.1	2836.6	2862.2	2882.9
10°	2739.6	2720.4	2764.4	2801.7	2828.5
12.5°	2641.2	2625.0	2679.6	2729.6	2764.7
15°	2480.5	2471.6	2538.1	2607.1	2651.9
17.5°	2308.6	2304.3	2380.6	2461.1	2518.5
20°	2191.4	2190.1	2273.8	2357.7	2424.3
22.5°	2073.1	2075.9	2163.9	2251.2	2326.9
25°	1895.7	1900.8	1999.1	2086.2	2178.3
27.5°	1731.6	1733.9	1835.5	1927.5	2025.7
30°	1619.7	1626.1	1725.6	1820.8	1923.2
32.5°	1507.7	1515.1	1612.6	1711.0	1815.4
35°	1339.7	1346.1	1436.5	1533.2	1641.9
37.5°	1166.5	1175.2	1255.4	1346.8	1453.8
40°	1054.5	1067.3	1138.2	1224.3	1329.2
42.5°	946.7	962.5	1028.3	1110.0	1204.7
45°	803.3	818.6	872.6	938.7	1024.4
47.5°	679.8	697.4	738.9	795.8	869.0
50°	609.7	626.3	664.6	706.7	775.8
52.5°	547.9	564.5	598.7	631.1	690.0
55°	461.8	481.0	508.9	528.2	571.7
57.5°	391.2	409.6	431.7	440.4	466.8
60°	344.1	364.5	384.6	383.6	397.7
62.5°	301.2	318.6	338.6	324.7	325.5
65°	231.6	250.8	273.4	238.9	217.2
67.5°	187.1	191.2	214.6	166.6	140.8
70°	166.2	166.2	172.7	129.0	107.3
72.5°	146.3	146.3	140.2	104.9	82.2
75°	116.4	116.4	106.0	72.7	49.7
77.5°	89.7	88.7	81.1	54.3	36.1
80°	72.0	72.0	65.4	42.9	28.8
82.5°	56.3	56.3	50.8	33.5	21.5
85°	32.7	32.7	30.1	19.4	11.8
87.5°	11.5	11.5	10.5	6.3	5.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.2	85.9	199.3	58.0	43.8
95°	52.7	209.1	939.9	325.3	200.5
97.5°	96.8	245.0	1447.5	1035.8	709.8
100°	127.6	266.3	1557.7	1577.8	1215.4
102.5°	161.6	289.2	1533.4	2019.7	1703.2
105°	214.7	325.6	1407.8	2486.7	2363.9
107.5°	268.6	368.0	1261.2	2618.4	2727.7
110°	305.9	399.0	1176.9	2568.0	2813.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	341.5	429.9	1120.2	2448.9	2799.0
115°	399.1	482.2	1067.5	2261.5	2655.6
117.5°	449.7	527.7	1036.3	2056.6	2474.1
120°	490.2	555.6	1033.1	1939.5	2339.6
122.5°	522.6	588.0	1025.0	1836.8	2208.4
125°	563.1	624.5	1018.9	1690.8	2021.6
127.5°	607.3	664.7	1015.7	1603.6	1876.1
130°	630.0	687.4	1010.8	1542.9	1780.5
132.5°	654.3	710.1	1010.8	1495.4	1714.1
135°	688.7	746.2	1006.7	1428.3	1614.4
137.5°	721.1	777.0	1006.3	1371.4	1532.2
140°	745.4	802.9	1004.7	1324.2	1478.7
142.5°	773.0	820.9	1009.6	1286.6	1425.2
145°	812.3	853.9	1014.8	1236.1	1347.0
147.5°	845.9	886.3	1023.8	1185.2	1281.0
150°	875.1	902.8	1027.0	1168.3	1235.6
152.5°	897.8	927.1	1030.2	1145.5	1208.1
155°	927.7	949.5	1039.2	1117.2	1162.7
157.5°	965.0	978.1	1041.2	1104.3	1136.8
160°	984.5	994.4	1049.3	1094.5	1122.2
162.5°	995.8	1007.3	1050.9	1086.2	1107.6
165°	1025.0	1028.9	1051.3	1073.9	1089.8
167.5°	1044.8	1041.3	1060.6	1070.9	1077.2
170°	1051.3	1049.3	1057.4	1059.6	1067.5
172.5°	1065.9	1059.2	1062.2	1056.3	1062.6
175°	1073.6	1067.6	1063.5	1057.2	1049.3
177.5°	1076.8	1067.3	1062.2	1055.8	1057.4
180°	1065.5	1065.5	1065.5	1065.5	1065.5

(END OF REPORT)