

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: P521329

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

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521329
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-BB-150U-125D-92765-1D-UNV-STD-W-4_3500K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK 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: 9844.3 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

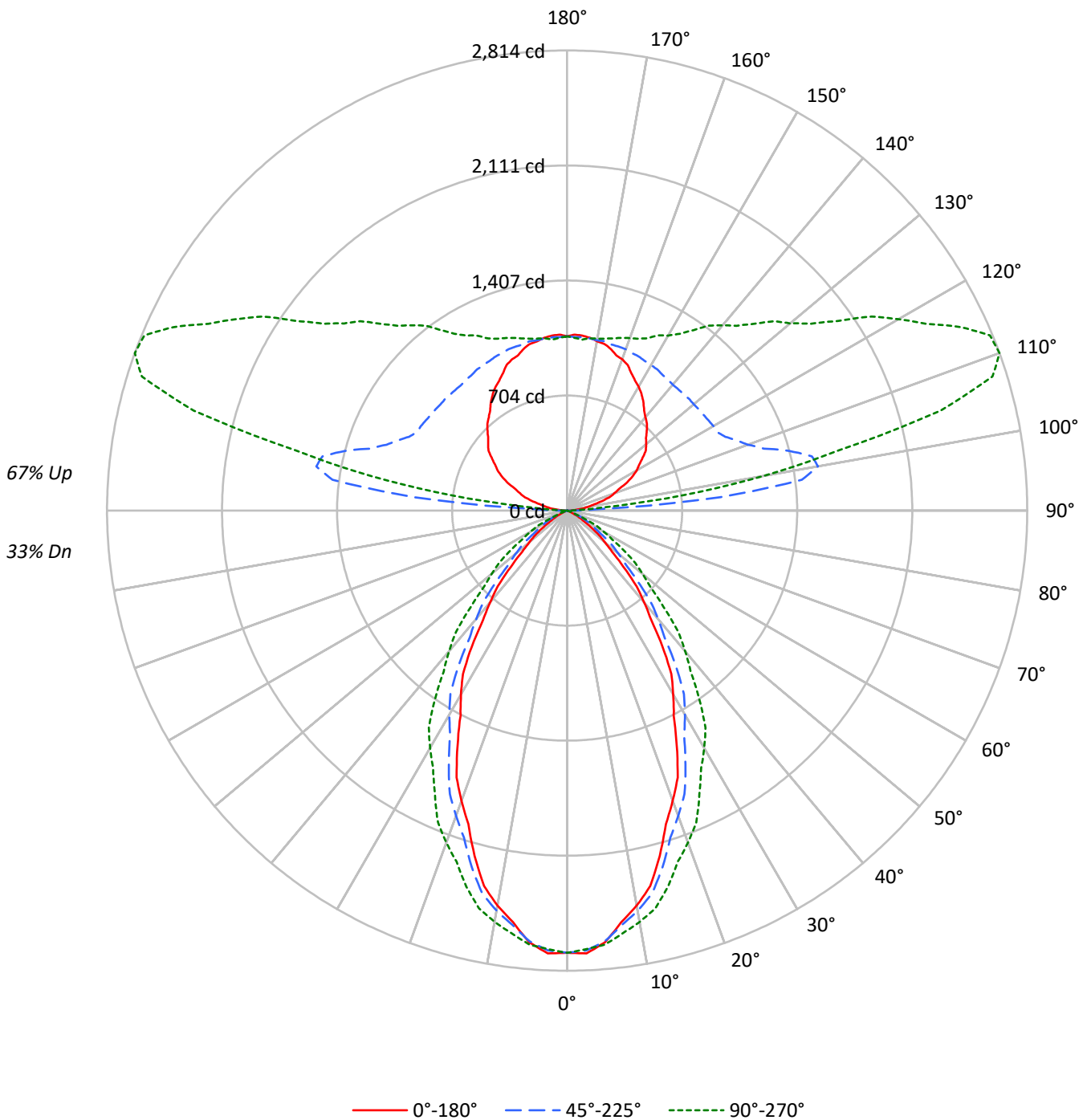
Input Watts (W): 107
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	93	93	93	93	74	74	74		56	56	56		40	40	40	33
1	95	91	88	85	86	83	80	77	66	64	63		51	50	49		37	37	36	30
2	88	81	76	71	79	74	69	65	59	56	54		46	45	43		34	33	32	27
3	81	72	66	61	73	66	60	56	54	50	47		42	40	38		32	30	29	24
4	74	65	58	53	67	59	53	49	48	44	41		38	36	33		29	27	26	22
5	69	58	51	46	62	53	47	42	44	39	36		35	32	30		27	25	24	20
6	64	53	45	40	58	48	42	37	40	35	32		32	29	27		25	23	21	18
7	59	48	41	36	53	44	38	33	37	32	29		30	26	24		23	21	20	17
8	55	44	37	32	50	40	34	30	34	29	26		27	24	22		21	19	18	15
9	51	40	33	29	47	37	31	27	31	27	23		25	22	20		20	18	16	14
10	48	37	30	26	44	34	28	24	29	24	21		24	20	18		19	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24949	24949	24949
5°	24548	24487	24670
10°	22969	23275	23925
15°	20881	21544	22743
20°	18536	19499	21208
25°	16141	17420	19484
30°	13826	15345	17854
35°	11464	13026	15884
40°	8808	10416	13535
45°	6367	7886	10891
50°	4338	5878	8638
55°	2820	4251	6712
60°	1618	2993	4853
65°	428	1827	2456
70°	210	564	707
75°	93	46	0
80°	69	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10891 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.8	2.5
10°-20°	631.1	6.4
20°-30°	790.1	8.0
30°-40°	729.8	7.4
40°-50°	490.4	5.0
50°-60°	253.3	2.6
60°-70°	79.3	0.8
70°-80°	5.0	0.1
80°-90°	0.1	0.0
90°-100°	485.5	4.9
100°-110°	1381.5	14.0
110°-120°	1323.6	13.4
120°-130°	1047.6	10.6
130°-140°	840.8	8.5
140°-150°	658.3	6.7
150°-160°	481.7	4.9
160°-170°	298.3	3.0
170°-180°	101.2	1.0
0°-30°	1668.0	16.9
0°-40°	2397.8	24.4
0°-60°	3141.5	31.9
0°-90°	3225.9	32.8
90°-120°	3190.6	32.4
90°-150°	5737.2	58.3
90°-180°	6618.0	67.2
0°-180°	9844.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2704	2704	2704	2704	2704	
5°	2651	2624	2644	2653	2664	246
15°	2186	2178	2256	2331	2381	609
25°	1586	1598	1711	1828	1914	727
35°	1018	1043	1156	1293	1410	631
45°	488	517	604	722	835	383
55°	175	205	264	339	417	164
65°	20	38	84	101	112	33
75°	3	3	1	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	2
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°	2704.2	2704.2	2704.2	2704.2	2704.2
2.5°	2710.5	2684.9	2691.7	2691.5	2684.3
5°	2650.6	2623.7	2644.0	2653.4	2663.7
7.5°	2538.6	2517.6	2556.7	2585.9	2607.2
10°	2451.7	2433.8	2484.4	2524.4	2553.8
12.5°	2351.3	2337.4	2398.6	2453.4	2491.0
15°	2186.1	2178.5	2255.5	2331.2	2381.1
17.5°	2009.3	2009.0	2096.9	2190.9	2251.0
20°	1887.9	1891.7	1986.0	2089.6	2160.0
22.5°	1766.4	1775.4	1876.1	1984.1	2064.7
25°	1585.6	1598.4	1711.2	1828.3	1914.0
27.5°	1411.9	1430.6	1549.3	1671.0	1775.3
30°	1297.8	1319.6	1440.4	1568.5	1675.9
32.5°	1185.8	1211.7	1329.5	1464.9	1574.4
35°	1017.8	1043.4	1156.5	1292.6	1410.3
37.5°	844.4	869.4	979.9	1113.9	1241.0
40°	731.3	759.5	864.8	994.6	1123.8
42.5°	628.8	656.9	755.9	883.5	1005.5
45°	488.0	517.4	604.4	722.1	834.7
47.5°	371.3	403.3	479.6	586.1	688.7
50°	302.2	334.2	409.5	503.3	601.8
52.5°	246.7	277.7	345.6	434.0	524.4
55°	175.3	204.7	264.3	339.3	417.3
57.5°	121.1	146.5	199.9	262.5	323.7
60°	87.7	112.0	162.2	213.1	263.0
62.5°	58.3	80.6	129.8	168.7	202.3
65°	19.6	37.5	83.7	101.0	112.5
67.5°	9.9	12.0	44.0	46.4	50.2
70°	7.8	7.8	20.9	22.3	26.2
72.5°	5.8	5.8	8.4	10.7	11.5
75°	2.6	2.6	1.3	0.0	0.0
77.5°	1.3	1.3	1.0	0.0	0.0
80°	1.3	1.3	0.0	0.0	0.0
82.5°	0.3	0.3	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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)