

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: P521332

Luminaire Tested: SQ4-BB-150U-125D-92765-1D-UNV-STD-W-4_5000K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521332
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_5000K
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10298.9 lumens
Efficiency: N/A
Efficacy: 96.4 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

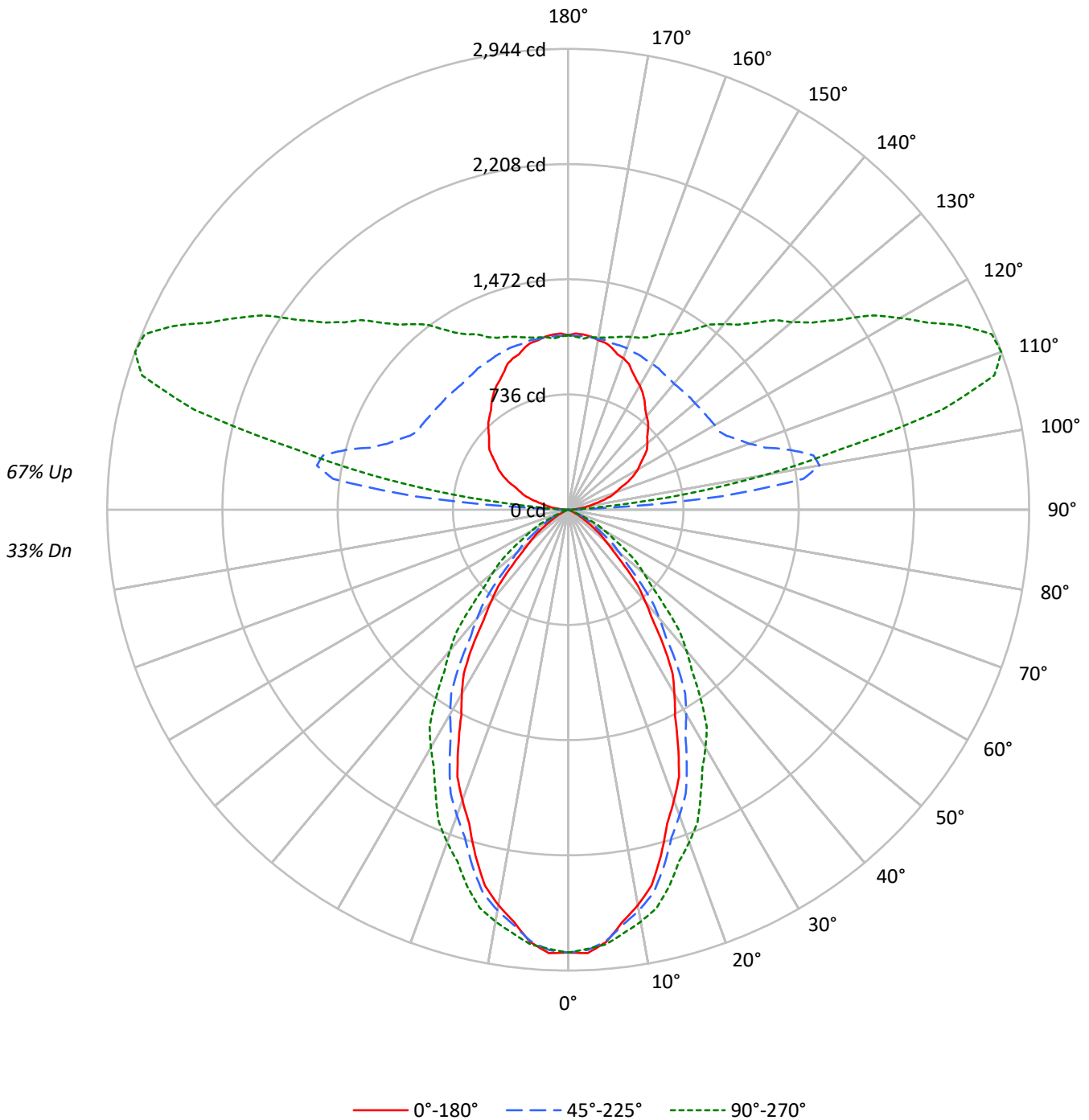
Input Watts (W): 106.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	26102	26102	26102
5°	25682	25618	25808
10°	24029	24350	25030
15°	21846	22538	23793
20°	19391	20400	22186
25°	16888	18224	20384
30°	14464	16054	18679
35°	11993	13627	16618
40°	9215	10896	14160
45°	6661	8250	11393
50°	4539	6149	9037
55°	2950	4448	7023
60°	1692	3131	5076
65°	448	1912	2570
70°	221	591	739
75°	96	50	0
80°	74	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11393 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.2	2.5
10°-20°	660.3	6.4
20°-30°	826.6	8.0
30°-40°	763.5	7.4
40°-50°	513.0	5.0
50°-60°	265.0	2.6
60°-70°	83.0	0.8
70°-80°	5.2	0.1
80°-90°	0.1	0.0
90°-100°	507.9	4.9
100°-110°	1445.2	14.0
110°-120°	1384.7	13.4
120°-130°	1095.9	10.6
130°-140°	879.7	8.5
140°-150°	688.7	6.7
150°-160°	503.9	4.9
160°-170°	312.1	3.0
170°-180°	105.9	1.0
0°-30°	1745.0	16.9
0°-40°	2508.5	24.4
0°-60°	3286.5	31.9
0°-90°	3374.8	32.8
90°-120°	3337.9	32.4
90°-150°	6002.1	58.3
90°-180°	6924.0	67.2
0°-180°	10298.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2829	2829	2829	2829	2829	
5°	2773	2745	2766	2776	2787	257
15°	2287	2279	2360	2439	2491	637
25°	1659	1672	1790	1913	2002	761
35°	1065	1092	1210	1352	1475	660
45°	510	541	632	756	873	401
55°	183	214	276	355	437	171
65°	20	39	88	106	118	35
75°	3	3	1	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	2
95°	55	219	983	340	210	63
105°	225	341	1473	2602	2473	238
115°	418	504	1117	2366	2778	411
125°	589	653	1066	1769	2115	527
135°	720	781	1053	1494	1689	556
145°	850	893	1062	1293	1409	531
155°	971	993	1087	1169	1216	449
165°	1072	1076	1100	1124	1140	302
175°	1123	1117	1113	1106	1098	106
180°	1115	1115	1115	1115	1115	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2829.1	2829.1	2829.1	2829.1	2829.1
2.5°	2835.6	2808.9	2815.9	2815.8	2808.3
5°	2773.0	2744.9	2766.1	2775.9	2786.6
7.5°	2655.8	2633.9	2674.7	2705.3	2727.5
10°	2564.9	2546.2	2599.1	2640.9	2671.7
12.5°	2459.8	2445.4	2509.4	2566.6	2606.0
15°	2287.1	2279.0	2359.6	2438.8	2491.0
17.5°	2102.0	2101.8	2193.7	2292.1	2355.0
20°	1975.0	1979.0	2077.7	2186.1	2259.7
22.5°	1848.0	1857.4	1962.7	2075.8	2160.1
25°	1658.9	1672.2	1790.2	1912.7	2002.4
27.5°	1477.1	1496.6	1620.8	1748.1	1857.3
30°	1357.7	1380.5	1506.9	1640.9	1753.3
32.5°	1240.6	1267.6	1390.9	1532.5	1647.1
35°	1064.8	1091.6	1209.9	1352.3	1475.4
37.5°	883.4	909.6	1025.1	1165.3	1298.3
40°	765.1	794.5	904.7	1040.5	1175.7
42.5°	657.8	687.2	790.8	924.3	1052.0
45°	510.5	541.3	632.3	755.5	873.2
47.5°	388.4	421.9	501.8	613.1	720.5
50°	316.2	349.6	428.4	526.5	629.6
52.5°	258.1	290.5	361.6	454.1	548.6
55°	183.4	214.2	276.5	355.0	436.6
57.5°	126.7	153.2	209.1	274.6	338.6
60°	91.7	117.1	169.7	222.9	275.1
62.5°	61.0	84.3	135.8	176.5	211.6
65°	20.5	39.3	87.6	105.7	117.7
67.5°	10.4	12.5	46.0	48.5	52.6
70°	8.2	8.2	21.9	23.4	27.4
72.5°	6.0	6.0	8.8	11.2	12.0
75°	2.7	2.7	1.4	0.0	0.0
77.5°	1.4	1.4	1.1	0.0	0.0
80°	1.4	1.4	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°	17.0	89.9	208.5	60.7	45.8
95°	55.1	218.8	983.3	340.3	209.8
97.5°	101.3	256.3	1514.4	1083.6	742.6
100°	133.5	278.6	1629.6	1650.7	1271.5
102.5°	169.1	302.6	1604.2	2112.9	1781.8
105°	224.6	340.7	1472.8	2601.5	2473.1
107.5°	281.0	385.0	1319.4	2739.3	2853.7
110°	320.0	417.4	1231.2	2686.6	2943.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.3	449.7	1171.9	2561.9	2928.3
115°	417.5	504.5	1116.8	2365.9	2778.2
117.5°	470.5	552.1	1084.2	2151.6	2588.3
120°	512.8	581.2	1080.8	2029.1	2447.6
122.5°	546.7	615.1	1072.3	1921.6	2310.3
125°	589.1	653.4	1065.9	1768.9	2114.9
127.5°	635.3	695.4	1062.5	1677.6	1962.8
130°	659.1	719.1	1057.5	1614.1	1862.7
132.5°	684.5	742.9	1057.5	1564.5	1793.2
135°	720.5	780.6	1053.2	1494.2	1689.0
137.5°	754.4	812.9	1052.8	1434.7	1602.9
140°	779.9	839.9	1051.1	1385.4	1547.0
142.5°	808.7	858.8	1056.2	1346.0	1491.0
145°	849.8	893.3	1061.7	1293.2	1409.2
147.5°	885.0	927.2	1071.0	1239.9	1340.2
150°	915.5	944.5	1074.4	1222.2	1292.7
152.5°	939.2	969.9	1077.8	1198.4	1263.9
155°	970.6	993.4	1087.1	1168.7	1216.4
157.5°	1009.6	1023.2	1089.2	1155.3	1189.3
160°	1029.9	1040.3	1097.7	1145.0	1174.0
162.5°	1041.8	1053.8	1099.4	1136.4	1158.8
165°	1072.3	1076.4	1099.8	1123.5	1140.1
167.5°	1093.1	1089.3	1109.6	1120.3	1127.0
170°	1099.8	1097.8	1106.2	1108.5	1116.8
172.5°	1115.1	1108.1	1111.3	1105.1	1111.7
175°	1123.2	1116.9	1112.6	1106.0	1097.7
177.5°	1126.5	1116.6	1111.3	1104.5	1106.2
180°	1114.7	1114.7	1114.7	1114.7	1114.7

(END OF REPORT)