

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: P521279

Luminaire Tested: SQ4-BB-125U-125D-92765-1D-UNV-STD-W-4_4500K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521279
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-125U-125D-92765-1D-UNV-STD-W-4_4500K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9020.4 lumens
Efficiency: N/A
Efficacy: 92.9 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

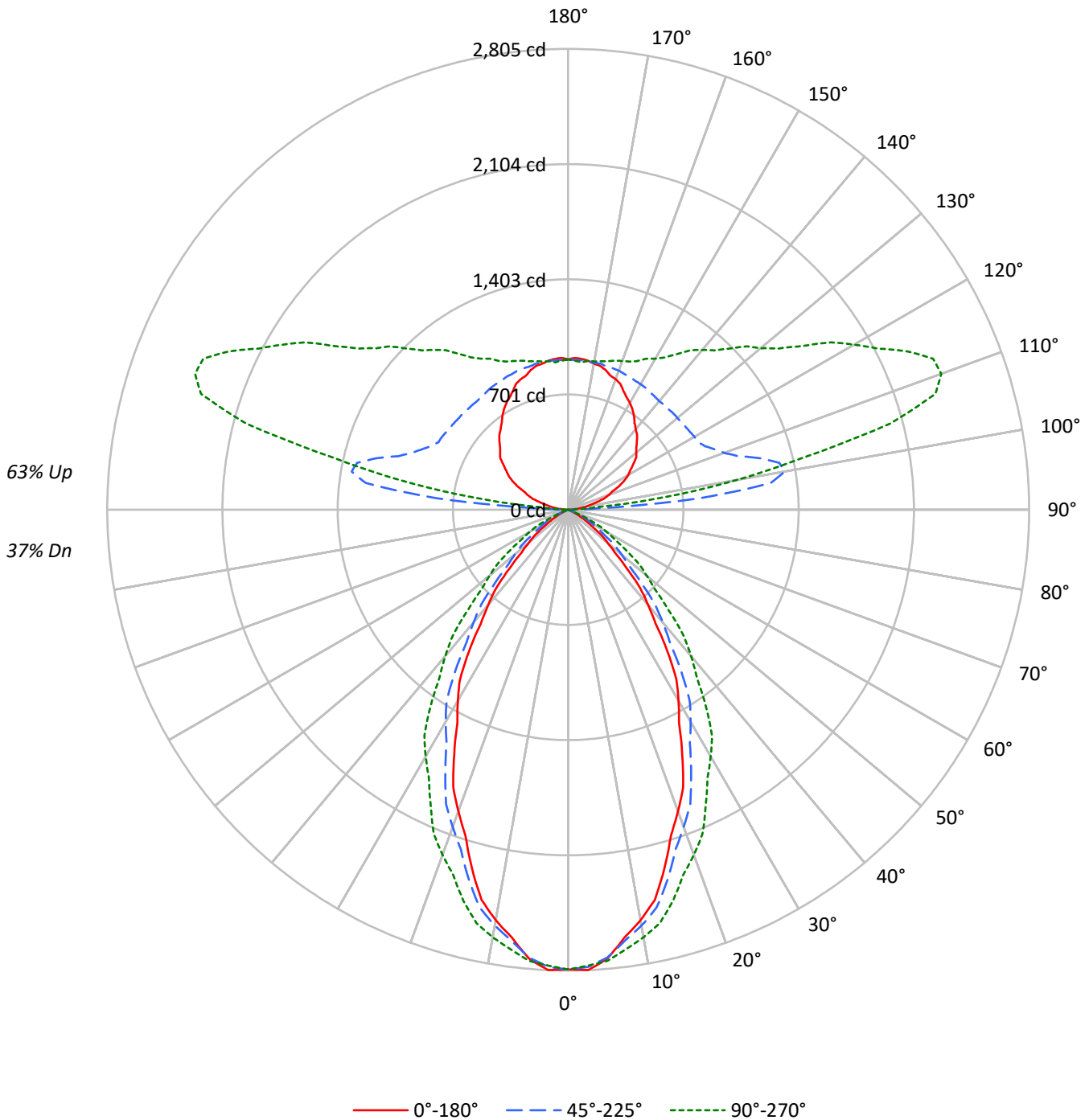
Input Watts (W): 97.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37				
1	96	92	89	86	87	84	81	79	69	67	65	54	53	52	41	40	40	34				
2	89	82	77	73	80	75	71	67	62	59	56	49	47	46	38	37	36	31				
3	82	74	67	62	74	67	62	58	56	52	49	45	42	40	35	33	32	28				
4	75	66	59	54	69	61	55	50	50	46	43	41	38	36	32	30	29	25				
5	70	59	52	47	63	55	49	44	46	41	38	37	34	32	30	28	26	23				
6	65	54	47	41	59	50	43	39	42	37	34	34	31	29	27	25	24	21				
7	60	49	42	37	55	45	39	35	38	34	30	32	28	26	25	23	22	19				
8	56	45	38	33	51	42	35	31	35	31	27	29	26	24	24	21	20	17				
9	52	41	34	30	48	38	32	28	33	28	25	27	24	22	22	20	18	16				
10	49	38	31	27	45	35	30	26	30	26	23	25	22	20	21	19	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25816	25816	25816
5°	25400	25337	25526
10°	23767	24084	24755
15°	21607	22292	23533
20°	19179	20176	21944
25°	16702	18026	20161
30°	14307	15878	18474
35°	11862	13479	16436
40°	9114	10777	14005
45°	6588	8160	11269
50°	4488	6082	8938
55°	2918	4398	6946
60°	1674	3098	5021
65°	443	1891	2541
70°	219	585	731
75°	96	50	0
80°	74	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11269 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.4	2.8
10°-20°	653.0	7.2
20°-30°	817.5	9.1
30°-40°	755.1	8.4
40°-50°	507.4	5.6
50°-60°	262.1	2.9
60°-70°	82.1	0.9
70°-80°	5.2	0.1
80°-90°	0.1	0.0
90°-100°	416.8	4.6
100°-110°	1186.1	13.1
110°-120°	1136.4	12.6
120°-130°	899.4	10.0
130°-140°	721.9	8.0
140°-150°	565.2	6.3
150°-160°	413.5	4.6
160°-170°	256.2	2.8
170°-180°	86.9	1.0
0°-30°	1725.9	19.1
0°-40°	2481.1	27.5
0°-60°	3250.5	36.0
0°-90°	3337.9	37.0
90°-120°	2739.4	30.4
90°-150°	4925.9	54.6
90°-180°	5682.0	63.0
0°-180°	9020.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2798	2798	2798	2798	2798	
5°	2743	2715	2736	2746	2756	254
15°	2262	2254	2334	2412	2464	630
25°	1641	1654	1771	1892	1980	752
35°	1053	1080	1197	1338	1459	652
45°	505	535	625	747	864	397
55°	181	212	273	351	432	169
65°	20	39	87	104	116	34
75°	3	3	1	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	2
95°	45	180	807	279	172	52
105°	184	280	1209	2135	2030	195
115°	343	414	916	1942	2280	337
125°	484	536	875	1452	1736	433
135°	591	641	864	1226	1386	456
145°	697	733	871	1061	1157	436
155°	796	815	892	959	998	368
165°	880	883	903	922	936	247
175°	922	917	913	908	901	87
180°	915	915	915	915	915	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2798.1	2798.1	2798.1	2798.1	2798.1
2.5°	2804.6	2778.1	2785.1	2785.0	2777.5
5°	2742.6	2714.8	2735.8	2745.6	2756.2
7.5°	2626.7	2605.0	2645.4	2675.7	2697.7
10°	2536.9	2518.3	2570.7	2612.0	2642.4
12.5°	2432.9	2418.6	2481.9	2538.6	2577.5
15°	2262.1	2254.1	2333.8	2412.1	2463.8
17.5°	2079.0	2078.8	2169.7	2267.0	2329.2
20°	1953.4	1957.4	2054.9	2162.2	2235.0
22.5°	1827.8	1837.0	1941.2	2053.0	2136.4
25°	1640.7	1653.9	1770.7	1891.8	1980.5
27.5°	1460.9	1480.2	1603.1	1729.0	1837.0
30°	1342.9	1365.4	1490.4	1622.9	1734.1
32.5°	1227.0	1253.7	1375.6	1515.8	1629.1
35°	1053.2	1079.7	1196.7	1337.5	1459.3
37.5°	873.7	899.6	1013.9	1152.6	1284.1
40°	756.7	785.8	894.8	1029.2	1162.8
42.5°	650.6	679.7	782.2	914.2	1040.5
45°	504.9	535.4	625.4	747.2	863.7
47.5°	384.2	417.3	496.3	606.4	712.6
50°	312.7	345.8	423.7	520.8	622.7
52.5°	255.3	287.3	357.7	449.1	542.6
55°	181.4	211.8	273.4	351.1	431.8
57.5°	125.4	151.6	206.8	271.6	334.9
60°	90.7	115.8	167.9	220.5	272.1
62.5°	60.4	83.4	134.3	174.6	209.3
65°	20.3	38.8	86.6	104.5	116.4
67.5°	10.3	12.4	45.5	48.0	52.0
70°	8.1	8.1	21.7	23.1	27.1
72.5°	6.0	6.0	8.7	11.1	11.9
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°	13.9	73.8	171.1	49.8	37.6
95°	45.2	179.6	807.0	279.3	172.2
97.5°	83.1	210.3	1242.8	889.3	609.4
100°	109.6	228.6	1337.4	1354.7	1043.5
102.5°	138.8	248.3	1316.6	1734.0	1462.3
105°	184.4	279.6	1208.7	2135.1	2029.6
107.5°	230.6	316.0	1082.8	2248.1	2342.0
110°	262.6	342.5	1010.5	2204.9	2415.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	293.2	369.1	961.8	2102.5	2403.2
115°	342.6	414.0	916.5	1941.7	2280.1
117.5°	386.1	453.1	889.8	1765.8	2124.2
120°	420.9	477.0	887.0	1665.2	2008.8
122.5°	448.7	504.8	880.0	1577.0	1896.1
125°	483.5	536.2	874.8	1451.7	1735.7
127.5°	521.4	570.7	872.0	1376.8	1610.8
130°	540.9	590.2	867.9	1324.7	1528.7
132.5°	561.8	609.7	867.9	1284.0	1471.7
135°	591.3	640.6	864.4	1226.3	1386.1
137.5°	619.1	667.1	864.0	1177.4	1315.5
140°	640.0	689.3	862.6	1137.0	1269.6
142.5°	663.7	704.8	866.8	1104.6	1223.7
145°	697.4	733.1	871.3	1061.3	1156.6
147.5°	726.3	761.0	879.0	1017.6	1099.9
150°	751.3	775.1	881.8	1003.1	1060.9
152.5°	770.8	796.0	884.5	983.5	1037.2
155°	796.5	815.2	892.2	959.2	998.3
157.5°	828.5	839.8	893.9	948.1	976.0
160°	845.2	853.7	900.9	939.7	963.5
162.5°	855.0	864.8	902.3	932.6	951.0
165°	880.0	883.4	902.6	922.1	935.7
167.5°	897.1	894.0	910.6	919.5	924.9
170°	902.6	900.9	907.9	909.7	916.5
172.5°	915.2	909.4	912.0	906.9	912.4
175°	921.8	916.7	913.1	907.7	900.9
177.5°	924.5	916.4	912.0	906.5	907.9
180°	914.8	914.8	914.8	914.8	914.8

(END OF REPORT)