

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: P522005

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

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P522005
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-125U-125D-92765-1D-UNV-STD-W-4_3500K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 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: 9836.5 lumens
Efficiency: N/A
Efficacy: 101.1 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: General Diffuse

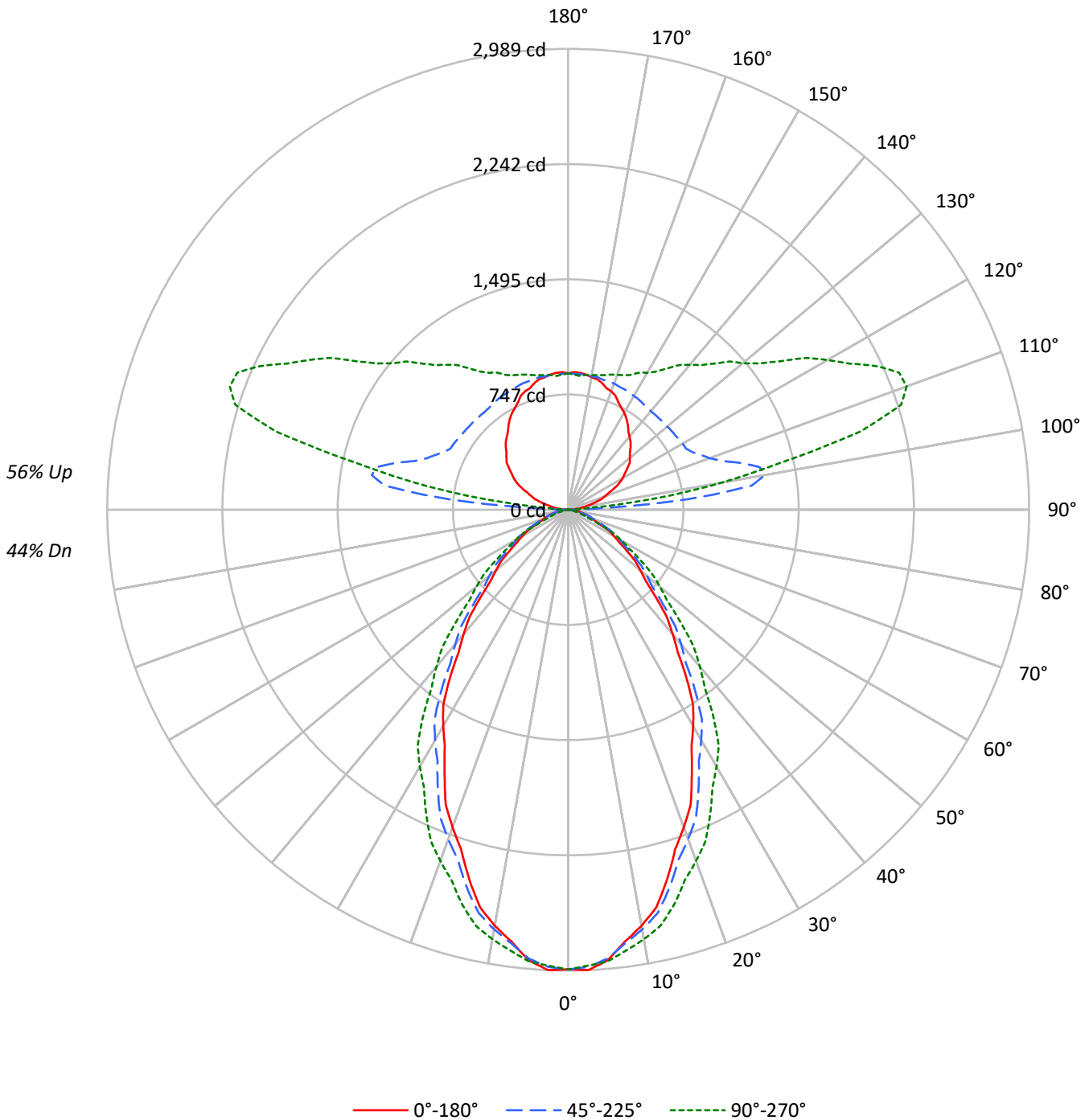
Input Watts (W): 97.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	94	90	87	89	86	83	80	72	70	68	59	57	56	46	46	45	39
2	90	83	77	73	82	76	72	68	64	61	58	53	50	48	42	41	39	35
3	82	74	67	62	75	68	62	58	57	53	50	48	45	42	38	36	35	31
4	76	66	59	53	70	61	55	50	52	47	43	43	40	37	35	33	31	27
5	70	59	52	46	64	55	49	44	47	42	38	39	36	33	32	30	28	24
6	65	54	46	41	60	50	43	39	43	38	34	36	32	29	30	27	25	22
7	60	49	41	36	55	45	39	34	39	34	30	33	29	26	27	25	23	20
8	56	45	37	32	52	42	35	31	36	31	27	30	27	24	25	23	21	18
9	52	41	34	29	48	38	32	28	33	28	25	28	25	22	24	21	19	17
10	49	38	31	26	45	35	29	25	31	26	23	26	23	20	22	19	17	16

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	2.8
10°-20°	711.3	7.2
20°-30°	921.4	9.4
30°-40°	902.3	9.2
40°-50°	690.6	7.0
50°-60°	460.2	4.7
60°-70°	251.1	2.6
70°-80°	104.6	1.1
80°-90°	29.6	0.3
90°-100°	402.9	4.1
100°-110°	1146.3	11.7
110°-120°	1098.3	11.2
120°-130°	869.3	8.8
130°-140°	697.7	7.1
140°-150°	546.2	5.6
150°-160°	399.7	4.1
160°-170°	247.6	2.5
170°-180°	84.0	0.9
0°-30°	1906.2	19.4
0°-40°	2808.5	28.6
0°-60°	3959.3	40.3
0°-90°	4344.7	44.2
90°-120°	2647.5	26.9
90°-150°	4760.6	48.4
90°-180°	5492.0	55.8
0°-180°	9836.5	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	3
95°	44	174	780	270	166	50
105°	178	270	1168	2063	1962	188
115°	331	400	886	1876	2204	326
125°	467	518	846	1403	1678	418
135°	572	619	835	1185	1340	441
145°	674	708	842	1026	1118	421
155°	770	788	862	927	965	356
165°	850	854	872	891	904	239
175°	891	886	882	877	871	84
180°	884	884	884	884	884	

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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°	13.4	71.3	165.4	48.1	36.3
95°	43.7	173.5	779.9	269.9	166.4
97.5°	80.3	203.3	1201.1	859.5	589.0
100°	105.9	220.9	1292.6	1309.2	1008.5
102.5°	134.1	240.0	1272.4	1675.9	1413.2
105°	178.2	270.2	1168.2	2063.4	1961.5
107.5°	222.9	305.4	1046.5	2172.7	2263.4
110°	253.8	331.0	976.6	2130.9	2334.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.4	356.7	929.5	2032.0	2322.6
115°	331.1	400.1	885.8	1876.5	2203.6
117.5°	373.1	437.9	859.9	1706.5	2053.0
120°	406.8	461.0	857.2	1609.4	1941.3
122.5°	433.7	487.9	850.5	1524.1	1832.4
125°	467.3	518.2	845.5	1403.0	1677.5
127.5°	503.9	551.6	842.8	1330.6	1556.8
130°	522.7	570.4	838.7	1280.2	1477.4
132.5°	542.9	589.3	838.7	1240.9	1422.3
135°	571.5	619.1	835.4	1185.1	1339.6
137.5°	598.4	644.7	835.0	1137.9	1271.4
140°	618.5	666.2	833.7	1098.8	1227.0
142.5°	641.4	681.2	837.7	1067.6	1182.6
145°	674.0	708.5	842.1	1025.7	1117.7
147.5°	701.9	735.4	849.5	983.4	1063.0
150°	726.1	749.1	852.2	969.4	1025.3
152.5°	744.9	769.3	854.9	950.5	1002.4
155°	769.8	787.9	862.3	927.0	964.8
157.5°	800.7	811.6	863.9	916.3	943.3
160°	816.9	825.1	870.7	908.2	931.2
162.5°	826.3	835.8	872.0	901.3	919.1
165°	850.5	853.8	872.3	891.1	904.3
167.5°	867.0	864.0	880.1	888.6	893.9
170°	872.3	870.7	877.4	879.2	885.8
172.5°	884.4	878.9	881.4	876.5	881.8
175°	890.8	885.9	882.4	877.2	870.7
177.5°	893.5	885.6	881.4	876.1	877.4
180°	884.1	884.1	884.1	884.1	884.1

(END OF REPORT)