

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: P522010

Luminaire Tested: SQ4-WB-125U-125D-92765-1D-UNV-STD-W-4_6500K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P522010
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_6500K
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10536.2 lumens
Efficiency: N/A
Efficacy: 109.1 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

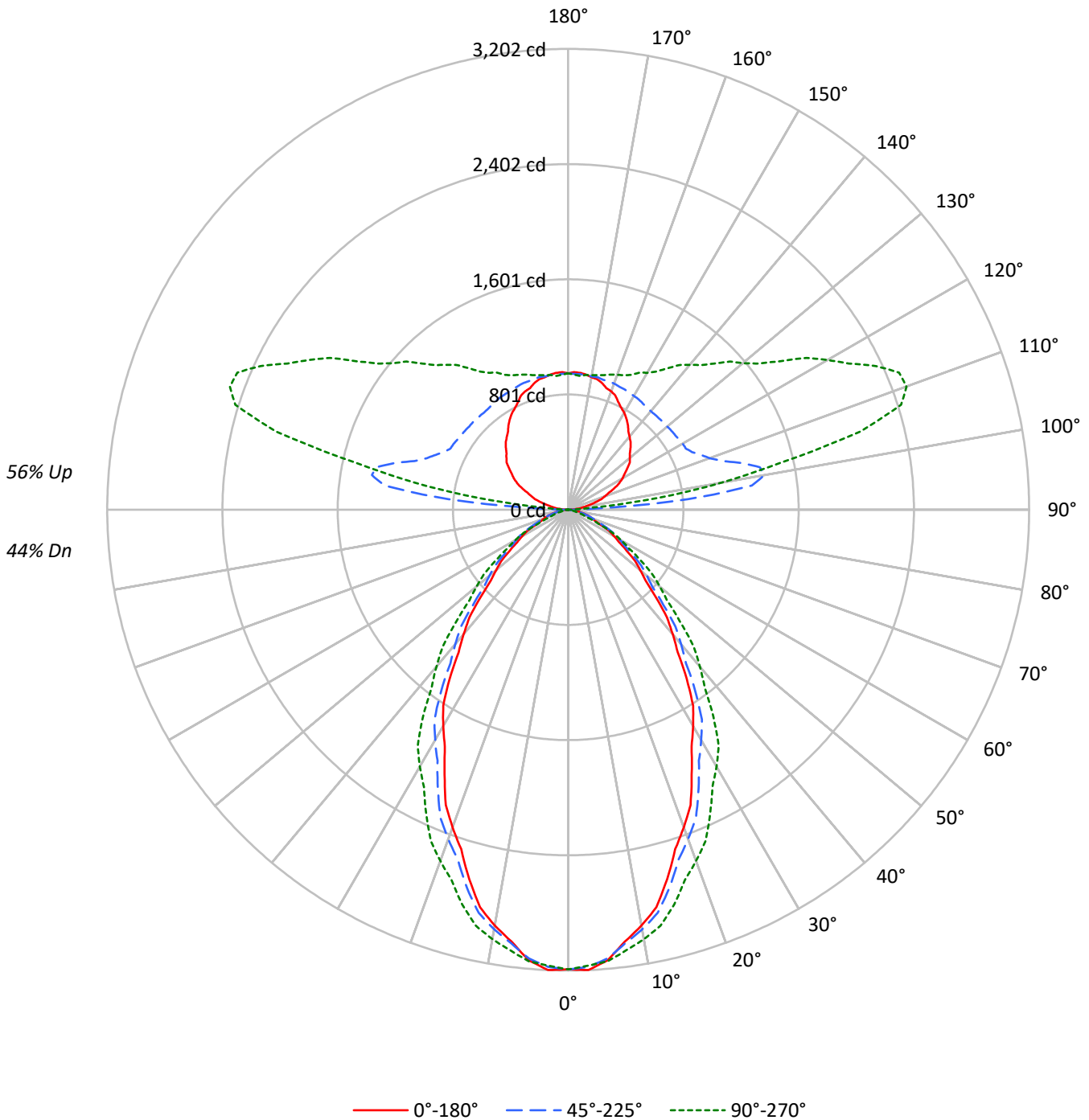
Input Watts (W): 96.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	29466	29466	29466
5°	29098	28994	29162
10°	27491	27740	28384
15°	25379	25967	27132
20°	23047	23913	25495
25°	20671	21798	23752
30°	18483	19692	21946
35°	16163	17331	19808
40°	13604	14684	17148
45°	11226	12196	14317
50°	9373	10218	11928
55°	7957	8768	9851
60°	6802	7602	7861
65°	5414	6394	5078
70°	4802	4990	3099
75°	4445	4046	1900
80°	4096	3725	1636
85°	3705	3409	1334

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 14317 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.9	2.8
10°-20°	761.9	7.2
20°-30°	986.9	9.4
30°-40°	966.4	9.2
40°-50°	739.8	7.0
50°-60°	492.9	4.7
60°-70°	269.0	2.6
70°-80°	112.1	1.1
80°-90°	31.7	0.3
90°-100°	431.5	4.1
100°-110°	1227.8	11.7
110°-120°	1176.4	11.2
120°-130°	931.1	8.8
130°-140°	747.3	7.1
140°-150°	585.1	5.6
150°-160°	428.1	4.1
160°-170°	265.2	2.5
170°-180°	90.0	0.9
0°-30°	2041.8	19.4
0°-40°	3008.2	28.6
0°-60°	4240.9	40.3
0°-90°	4653.8	44.2
90°-120°	2835.8	26.9
90°-150°	5099.2	48.4
90°-180°	5882.0	55.8
0°-180°	10536.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3194	3194	3194	3194	3194	
5°	3142	3110	3131	3138	3149	292
15°	2657	2647	2719	2793	2840	742
25°	2031	2036	2141	2235	2333	934
35°	1435	1442	1539	1642	1759	892
45°	860	877	935	1006	1097	671
55°	495	515	545	566	612	449
65°	248	269	293	256	233	258
75°	125	125	114	78	53	133
85°	35	35	32	21	13	38
90°	0	0	0	0	0	4
95°	47	186	835	289	178	54
105°	191	289	1251	2210	2101	202
115°	355	429	949	2010	2360	349
125°	500	555	906	1503	1797	448
135°	612	663	895	1269	1435	472
145°	722	759	902	1099	1197	451
155°	825	844	924	993	1033	381
165°	911	914	934	954	969	256
175°	954	949	945	940	933	90
180°	947	947	947	947	947	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3193.7	3193.7	3193.7	3193.7	3193.7
2.5°	3201.5	3173.0	3180.2	3180.0	3171.2
5°	3141.8	3110.3	3130.6	3137.9	3148.8
7.5°	3025.2	3001.4	3038.4	3065.8	3088.0
10°	2934.4	2913.9	2961.0	3000.9	3029.7
12.5°	2829.0	2811.8	2870.2	2923.8	2961.3
15°	2657.0	2647.4	2718.6	2792.6	2840.5
17.5°	2472.8	2468.2	2549.9	2636.2	2697.6
20°	2347.3	2345.9	2435.5	2525.4	2596.7
22.5°	2220.6	2223.6	2317.8	2411.3	2492.4
25°	2030.6	2036.0	2141.3	2234.6	2333.2
27.5°	1854.8	1857.3	1966.1	2064.6	2169.8
30°	1734.9	1741.7	1848.4	1950.4	2060.0
32.5°	1614.9	1622.9	1727.3	1832.7	1944.5
35°	1435.0	1441.8	1538.7	1642.2	1758.7
37.5°	1249.4	1258.8	1344.7	1442.6	1557.2
40°	1129.5	1143.2	1219.2	1311.4	1423.8
42.5°	1014.0	1031.0	1101.5	1189.0	1290.4
45°	860.4	876.9	934.7	1005.5	1097.3
47.5°	728.1	747.0	791.5	852.4	930.8
50°	653.0	670.8	711.9	757.0	831.0
52.5°	586.9	604.7	641.3	676.0	739.1
55°	494.7	515.2	545.1	565.8	612.4
57.5°	419.0	438.7	462.4	471.8	500.0
60°	368.6	390.5	412.0	410.9	426.0
62.5°	322.6	341.2	362.7	347.8	348.7
65°	248.0	268.6	292.9	255.9	232.6
67.5°	200.4	204.8	229.8	178.5	150.8
70°	178.0	178.0	185.0	138.2	114.9
72.5°	156.7	156.7	150.2	112.4	88.0
75°	124.7	124.7	113.5	77.9	53.3
77.5°	96.1	95.0	86.9	58.1	38.7
80°	77.1	77.1	70.1	45.9	30.8
82.5°	60.3	60.3	54.4	35.9	23.0
85°	35.0	35.0	32.2	20.8	12.6
87.5°	12.3	12.3	11.2	6.7	5.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.4	76.4	177.2	51.6	38.9
95°	46.8	185.9	835.4	289.1	178.2
97.5°	86.1	217.7	1286.6	920.6	630.9
100°	113.4	236.6	1384.5	1402.4	1080.2
102.5°	143.7	257.0	1362.9	1795.1	1513.8
105°	190.8	289.4	1251.3	2210.2	2101.0
107.5°	238.7	327.1	1120.9	2327.2	2424.4
110°	271.9	354.6	1046.0	2282.4	2500.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	303.5	382.1	995.6	2176.5	2487.8
115°	354.7	428.6	948.8	2010.0	2360.3
117.5°	399.7	469.0	921.1	1827.9	2199.0
120°	435.7	493.8	918.2	1723.8	2079.4
122.5°	464.5	522.6	911.0	1632.5	1962.8
125°	500.5	555.1	905.6	1502.8	1796.8
127.5°	539.8	590.8	902.7	1425.3	1667.5
130°	559.9	611.0	898.4	1371.3	1582.5
132.5°	581.5	631.2	898.4	1329.1	1523.5
135°	612.1	663.2	894.8	1269.4	1434.9
137.5°	640.9	690.6	894.4	1218.9	1361.8
140°	662.5	713.6	893.0	1177.0	1314.3
142.5°	687.0	729.6	897.3	1143.5	1266.7
145°	722.0	758.9	902.0	1098.7	1197.3
147.5°	751.8	787.8	909.9	1053.4	1138.6
150°	777.8	802.4	912.8	1038.4	1098.2
152.5°	797.9	824.0	915.7	1018.1	1073.7
155°	824.6	843.9	923.6	992.9	1033.4
157.5°	857.7	869.3	925.4	981.5	1010.4
160°	875.0	883.8	932.6	972.8	997.4
162.5°	885.1	895.3	934.0	965.4	984.4
165°	911.0	914.5	934.4	954.5	968.6
167.5°	928.6	925.5	942.7	951.8	957.4
170°	934.4	932.6	939.8	941.8	948.8
172.5°	947.4	941.4	944.1	938.8	944.5
175°	954.2	948.9	945.2	939.6	932.6
177.5°	957.1	948.6	944.1	938.4	939.8
180°	947.0	947.0	947.0	947.0	947.0

(END OF REPORT)