

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: P522006

Luminaire Tested: SQ4-WB-125U-125D-92765-1D-UNV-STD-W-4_4000K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P522006
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_4000K
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10016.5 lumens
Efficiency: N/A
Efficacy: 102.9 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

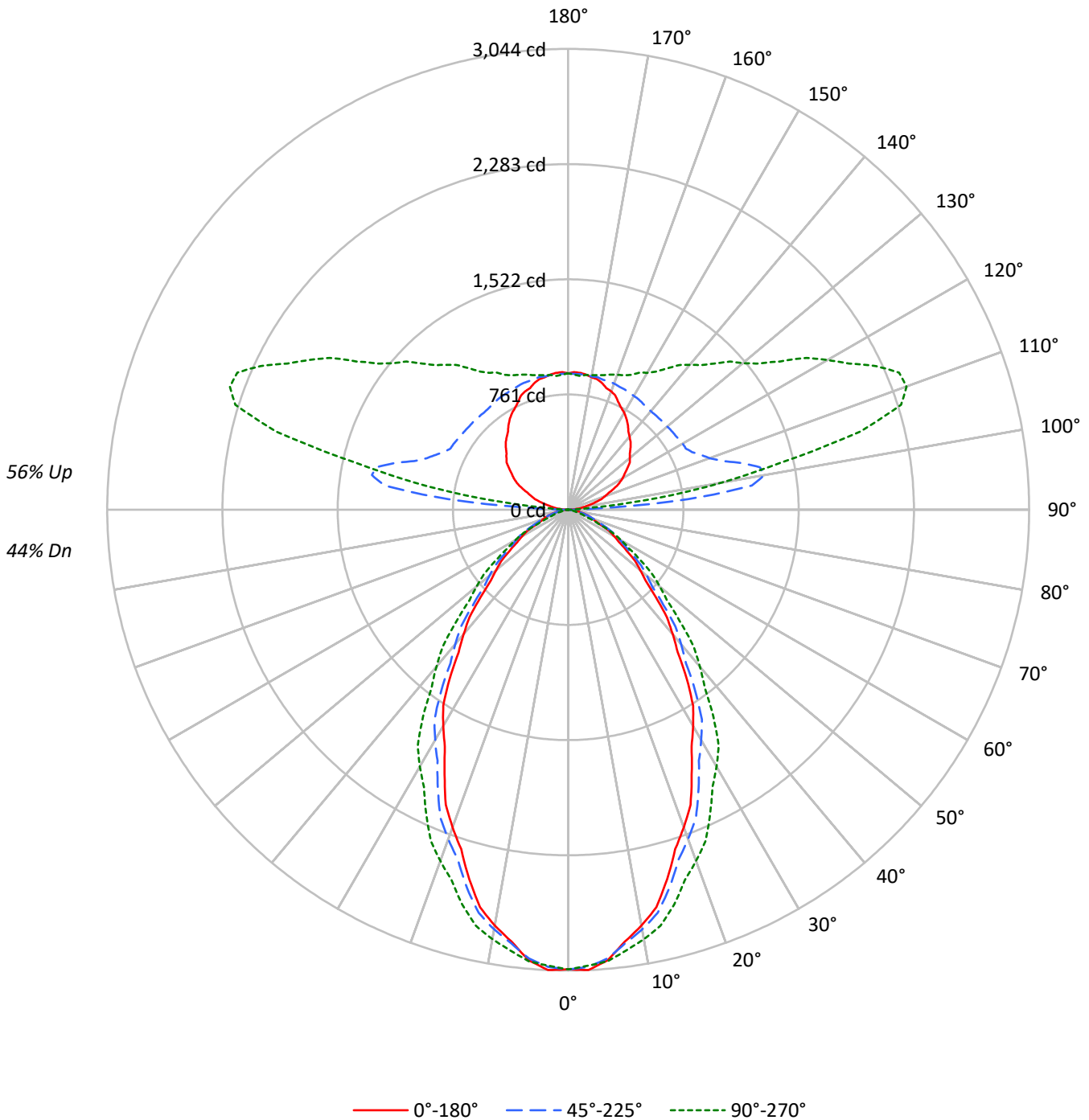
Input Watts (W): 97.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
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°	28012	28012	28012
5°	27662	27564	27724
10°	26135	26372	26984
15°	24127	24686	25793
20°	21910	22733	24238
25°	19651	20722	22580
30°	17571	18720	20864
35°	15365	16476	18831
40°	12933	13959	16301
45°	10673	11594	13610
50°	8911	9714	11339
55°	7565	8335	9365
60°	6466	7228	7473
65°	5148	6078	4827
70°	4564	4745	2946
75°	4228	3846	1804
80°	3895	3539	1557
85°	3525	3239	1270

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13610 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.5	2.8
10°-20°	724.4	7.2
20°-30°	938.2	9.4
30°-40°	918.8	9.2
40°-50°	703.3	7.0
50°-60°	468.6	4.7
60°-70°	255.7	2.6
70°-80°	106.6	1.1
80°-90°	30.2	0.3
90°-100°	410.2	4.1
100°-110°	1167.3	11.7
110°-120°	1118.4	11.2
120°-130°	885.2	8.8
130°-140°	710.5	7.1
140°-150°	556.2	5.6
150°-160°	407.0	4.1
160°-170°	252.1	2.5
170°-180°	85.5	0.9
0°-30°	1941.1	19.4
0°-40°	2859.9	28.6
0°-60°	4031.7	40.3
0°-90°	4424.2	44.2
90°-120°	2695.9	26.9
90°-150°	4847.7	48.4
90°-180°	5592.0	55.8
0°-180°	10016.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3036	3036	3036	3036	3036	
5°	2987	2957	2976	2983	2994	278
15°	2526	2517	2584	2655	2700	705
25°	1930	1936	2036	2124	2218	888
35°	1364	1371	1463	1561	1672	848
45°	818	834	889	956	1043	638
55°	470	490	518	538	582	426
65°	236	255	278	243	221	245
75°	119	119	108	74	51	127
85°	33	33	31	20	12	36
90°	0	0	0	0	0	3
95°	44	177	794	275	169	51
105°	181	275	1190	2101	1997	192
115°	337	408	902	1911	2244	332
125°	476	528	861	1429	1708	426
135°	582	630	851	1207	1364	449
145°	686	722	858	1044	1138	429
155°	784	802	878	944	982	362
165°	866	869	888	907	921	244
175°	907	902	899	893	887	86
180°	900	900	900	900	900	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3036.1	3036.1	3036.1	3036.1	3036.1
2.5°	3043.6	3016.5	3023.3	3023.2	3014.8
5°	2986.8	2956.9	2976.2	2983.1	2993.5
7.5°	2876.0	2853.3	2888.5	2914.6	2935.7
10°	2789.7	2770.1	2815.0	2852.9	2880.3
12.5°	2689.5	2673.1	2728.7	2779.6	2815.2
15°	2525.9	2516.8	2584.5	2654.8	2700.4
17.5°	2350.8	2346.4	2424.1	2506.2	2564.5
20°	2231.5	2230.2	2315.4	2400.9	2468.6
22.5°	2111.0	2113.9	2203.5	2292.4	2369.5
25°	1930.4	1935.6	2035.6	2124.4	2218.1
27.5°	1763.3	1765.7	1869.1	1962.8	2062.8
30°	1649.3	1655.8	1757.2	1854.2	1958.4
32.5°	1535.3	1542.8	1642.1	1742.3	1848.6
35°	1364.2	1370.7	1462.8	1561.2	1671.9
37.5°	1187.8	1196.7	1278.4	1371.5	1480.4
40°	1073.8	1086.8	1159.0	1246.7	1353.5
42.5°	964.0	980.1	1047.1	1130.3	1226.7
45°	818.0	833.6	888.6	955.9	1043.1
47.5°	692.2	710.2	752.4	810.4	884.9
50°	620.8	637.7	676.8	719.7	790.0
52.5°	557.9	574.9	609.6	642.7	702.6
55°	470.3	489.8	518.2	537.9	582.2
57.5°	398.3	417.1	439.6	448.5	475.3
60°	350.4	371.2	391.7	390.7	405.0
62.5°	306.7	324.4	344.8	330.7	331.5
65°	235.8	255.3	278.4	243.3	221.1
67.5°	190.5	194.7	218.5	169.7	143.3
70°	169.2	169.2	175.9	131.4	109.2
72.5°	148.9	148.9	142.8	106.8	83.7
75°	118.6	118.6	107.9	74.1	50.6
77.5°	91.4	90.3	82.6	55.3	36.8
80°	73.3	73.3	66.6	43.6	29.3
82.5°	57.3	57.3	51.7	34.1	21.8
85°	33.3	33.3	30.6	19.8	12.0
87.5°	11.7	11.7	10.7	6.4	5.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.7	72.6	168.4	49.0	37.0
95°	44.5	176.7	794.2	274.9	169.4
97.5°	81.8	207.0	1223.1	875.2	599.7
100°	107.8	225.0	1316.2	1333.2	1026.9
102.5°	136.6	244.4	1295.7	1706.5	1439.1
105°	181.4	275.1	1189.5	2101.2	1997.4
107.5°	227.0	311.0	1065.6	2212.4	2304.8
110°	258.4	337.1	994.4	2169.9	2377.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.6	363.2	946.5	2069.2	2365.0
115°	337.2	407.5	902.0	1910.8	2243.9
117.5°	380.0	445.9	875.6	1737.7	2090.5
120°	414.2	469.4	872.9	1638.8	1976.9
122.5°	441.6	496.8	866.1	1552.0	1866.0
125°	475.8	527.7	860.9	1428.7	1708.1
127.5°	513.1	561.7	858.2	1355.0	1585.3
130°	532.3	580.8	854.1	1303.6	1504.5
132.5°	552.8	600.0	854.1	1263.6	1448.3
135°	581.9	630.5	850.7	1206.8	1364.1
137.5°	609.3	656.5	850.3	1158.7	1294.6
140°	629.9	678.4	848.9	1118.9	1249.4
142.5°	653.1	693.6	853.0	1087.1	1204.3
145°	686.3	721.5	857.5	1044.5	1138.2
147.5°	714.8	748.9	865.0	1001.4	1082.4
150°	739.4	762.8	867.8	987.2	1044.1
152.5°	758.6	783.3	870.5	967.9	1020.8
155°	783.9	802.3	878.0	943.9	982.4
157.5°	815.4	826.4	879.7	933.1	960.5
160°	831.8	840.2	886.6	924.8	948.2
162.5°	841.4	851.1	888.0	917.8	935.9
165°	866.1	869.4	888.3	907.4	920.8
167.5°	882.8	879.8	896.2	904.9	910.2
170°	888.3	886.6	893.4	895.3	902.0
172.5°	900.6	894.9	897.5	892.5	897.9
175°	907.1	902.1	898.6	893.3	886.6
177.5°	909.9	901.8	897.5	892.1	893.4
180°	900.3	900.3	900.3	900.3	900.3

(END OF REPORT)