

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: P521747

Luminaire Tested: SQ4-WB-025U-125D-92765-1D-UNV-STD-W-4_4500K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521747
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-025U-125D-92765-1D-UNV-STD-W-4_4500K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 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: 6499.5 lumens
Efficiency: N/A
Efficacy: 93.3 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: Semi-Direct

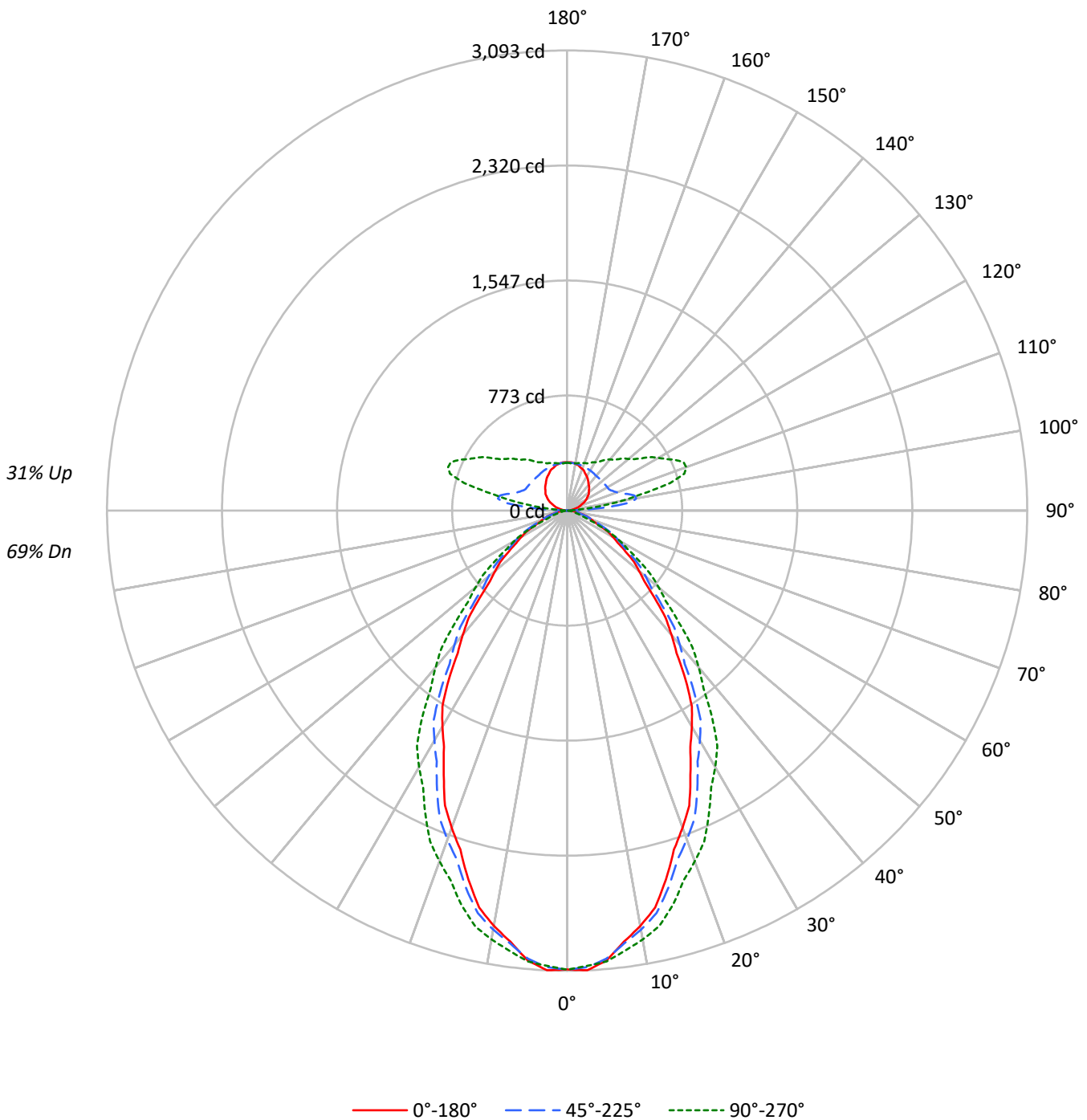
Input Watts (W): 69.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	50	30	10	0														
RCR																																						
0	112	112	112	112	106	106	106	106	94	94	94	83	83	83	74	74	74	69																				
1	104	100	96	93	98	95	92	89	85	83	81	76	74	73	68	66	65	61																				
2	96	89	84	79	90	85	80	76	76	73	69	69	66	63	62	59	58	54																				
3	88	80	73	68	84	76	70	65	69	64	60	62	59	56	56	53	51	48																				
4	82	72	65	59	77	69	62	57	62	57	53	57	53	49	51	48	45	43																				
5	76	65	58	52	72	62	56	50	57	51	47	52	47	44	47	44	41	38																				
6	71	59	52	46	67	57	50	45	52	46	42	48	43	40	44	40	37	35																				
7	66	54	47	42	63	52	45	40	48	42	38	44	39	36	40	36	34	31																				
8	62	50	43	38	59	48	41	37	44	39	35	41	36	33	37	34	31	29																				
9	58	46	39	34	55	44	38	33	41	36	32	38	33	30	35	31	28	26																				
10	54	43	36	31	52	41	35	31	38	33	29	35	31	28	33	29	26	24																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28464	28464	28464
5°	28108	28008	28171
10°	26557	26798	27419
15°	24515	25085	26210
20°	22263	23100	24628
25°	19968	21057	22945
30°	17854	19022	21200
35°	15613	16741	19135
40°	13141	14184	16565
45°	10845	11781	13831
50°	9054	9871	11523
55°	7687	8471	9516
60°	6569	7344	7593
65°	5231	6176	4905
70°	4637	4821	2994
75°	4296	3911	1832
80°	3958	3597	1583
85°	3578	3292	1291

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13831 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.0	4.4
10°-20°	736.0	11.3
20°-30°	953.4	14.7
30°-40°	933.6	14.4
40°-50°	714.6	11.0
50°-60°	476.2	7.3
60°-70°	259.8	4.0
70°-80°	108.3	1.7
80°-90°	30.6	0.5
90°-100°	147.0	2.3
100°-110°	418.3	6.4
110°-120°	400.8	6.2
120°-130°	317.2	4.9
130°-140°	254.6	3.9
140°-150°	199.3	3.1
150°-160°	145.8	2.2
160°-170°	90.3	1.4
170°-180°	30.7	0.5
0°-30°	1972.4	30.3
0°-40°	2906.0	44.7
0°-60°	4096.8	63.0
0°-90°	4495.6	69.2
90°-120°	966.1	14.9
90°-150°	1737.2	26.7
90°-180°	2004.0	30.8
0°-180°	6499.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3085	3085	3085	3085	3085	
5°	3035	3005	3024	3031	3042	282
15°	2567	2557	2626	2698	2744	717
25°	1962	1967	2068	2159	2254	902
35°	1386	1393	1486	1586	1699	862
45°	831	847	903	971	1060	648
55°	478	498	527	547	592	433
65°	240	260	283	247	225	249
75°	120	120	110	75	51	129
85°	34	34	31	20	12	37
90°	0	0	0	0	0	2
95°	16	63	285	98	61	18
105°	65	99	426	753	716	69
115°	121	146	323	685	804	119
125°	170	189	308	512	612	153
135°	208	226	305	432	489	161
145°	246	258	307	374	408	154
155°	281	288	315	338	352	130
165°	310	312	318	325	330	87
175°	325	323	322	320	318	31
180°	323	323	323	323	323	

TEST NUMBER: P521747

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3085.1	3085.1	3085.1	3085.1	3085.1
2.5°	3092.7	3065.2	3072.1	3071.9	3063.4
5°	3035.0	3004.6	3024.2	3031.2	3041.8
7.5°	2922.4	2899.4	2935.1	2961.6	2983.0
10°	2834.7	2814.8	2860.4	2898.9	2926.7
12.5°	2732.9	2716.2	2772.7	2824.4	2860.7
15°	2566.6	2557.4	2626.2	2697.6	2744.0
17.5°	2388.8	2384.3	2463.2	2546.6	2605.9
20°	2267.5	2266.1	2352.7	2439.6	2508.4
22.5°	2145.1	2148.0	2239.0	2329.4	2407.7
25°	1961.5	1966.8	2068.5	2158.6	2253.9
27.5°	1791.8	1794.2	1899.3	1994.4	2096.1
30°	1675.9	1682.5	1785.5	1884.1	1990.0
32.5°	1560.0	1567.7	1668.6	1770.4	1878.4
35°	1386.2	1392.8	1486.4	1586.4	1698.9
37.5°	1207.0	1216.0	1299.0	1393.6	1504.2
40°	1091.1	1104.3	1177.7	1266.8	1375.4
42.5°	979.5	996.0	1064.0	1148.5	1246.5
45°	831.2	847.1	902.9	971.3	1060.0
47.5°	703.4	721.7	764.6	823.4	899.1
50°	630.8	648.0	687.7	731.3	802.8
52.5°	566.9	584.1	619.5	653.1	713.9
55°	477.9	497.7	526.6	546.6	591.6
57.5°	404.8	423.8	446.7	455.7	483.0
60°	356.0	377.2	398.0	397.0	411.5
62.5°	311.6	329.6	350.3	336.0	336.8
65°	239.6	259.5	282.9	247.2	224.7
67.5°	193.6	197.8	222.0	172.4	145.7
70°	171.9	171.9	178.7	133.5	111.0
72.5°	151.3	151.3	145.1	108.6	85.0
75°	120.5	120.5	109.7	75.3	51.4
77.5°	92.9	91.8	83.9	56.2	37.4
80°	74.5	74.5	67.7	44.3	29.8
82.5°	58.2	58.2	52.5	34.6	22.2
85°	33.8	33.8	31.1	20.1	12.2
87.5°	11.9	11.9	10.8	6.5	5.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	26.0	60.4	17.6	13.2
95°	15.9	63.3	284.6	98.5	60.7
97.5°	29.3	74.2	438.3	313.6	214.9
100°	38.6	80.6	471.7	477.7	368.0
102.5°	48.9	87.6	464.3	611.5	515.7
105°	65.0	98.6	426.3	752.9	715.8
107.5°	81.3	111.4	381.9	792.8	825.9
110°	92.6	120.8	356.3	777.6	851.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.4	130.2	339.2	741.5	847.5
115°	120.8	146.0	323.2	684.7	804.1
117.5°	136.2	159.8	313.8	622.7	749.1
120°	148.4	168.2	312.8	587.3	708.4
122.5°	158.2	178.0	310.3	556.2	668.7
125°	170.5	189.1	308.5	512.0	612.1
127.5°	183.9	201.3	307.5	485.6	568.1
130°	190.7	208.1	306.1	467.2	539.1
132.5°	198.1	215.0	306.1	452.8	519.0
135°	208.5	225.9	304.8	432.5	488.8
137.5°	218.3	235.3	304.7	415.2	463.9
140°	225.7	243.1	304.2	401.0	447.7
142.5°	234.0	248.6	305.7	389.6	431.5
145°	245.9	258.5	307.3	374.3	407.9
147.5°	256.1	268.4	310.0	358.8	387.9
150°	265.0	273.4	311.0	353.7	374.1
152.5°	271.8	280.7	311.9	346.8	365.8
155°	280.9	287.5	314.6	338.3	352.1
157.5°	292.2	296.2	315.3	334.4	344.2
160°	298.1	301.1	317.7	331.4	339.8
162.5°	301.5	305.0	318.2	328.9	335.4
165°	310.3	311.5	318.3	325.2	330.0
167.5°	316.4	315.3	321.1	324.3	326.2
170°	318.3	317.7	320.2	320.8	323.2
172.5°	322.7	320.7	321.6	319.8	321.8
175°	325.1	323.3	322.0	320.1	317.7
177.5°	326.0	323.2	321.6	319.7	320.2
180°	322.6	322.6	322.6	322.6	322.6

(END OF REPORT)