

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: P521016

Luminaire Tested: SQ4-BB-025U-125D-92765-1D-UNV-STD-W-4_3000K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521016
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-025U-125D-92765-1D-UNV-STD-W-4_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5041.7 lumens
Efficiency: N/A
Efficacy: 72.3 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-Direct

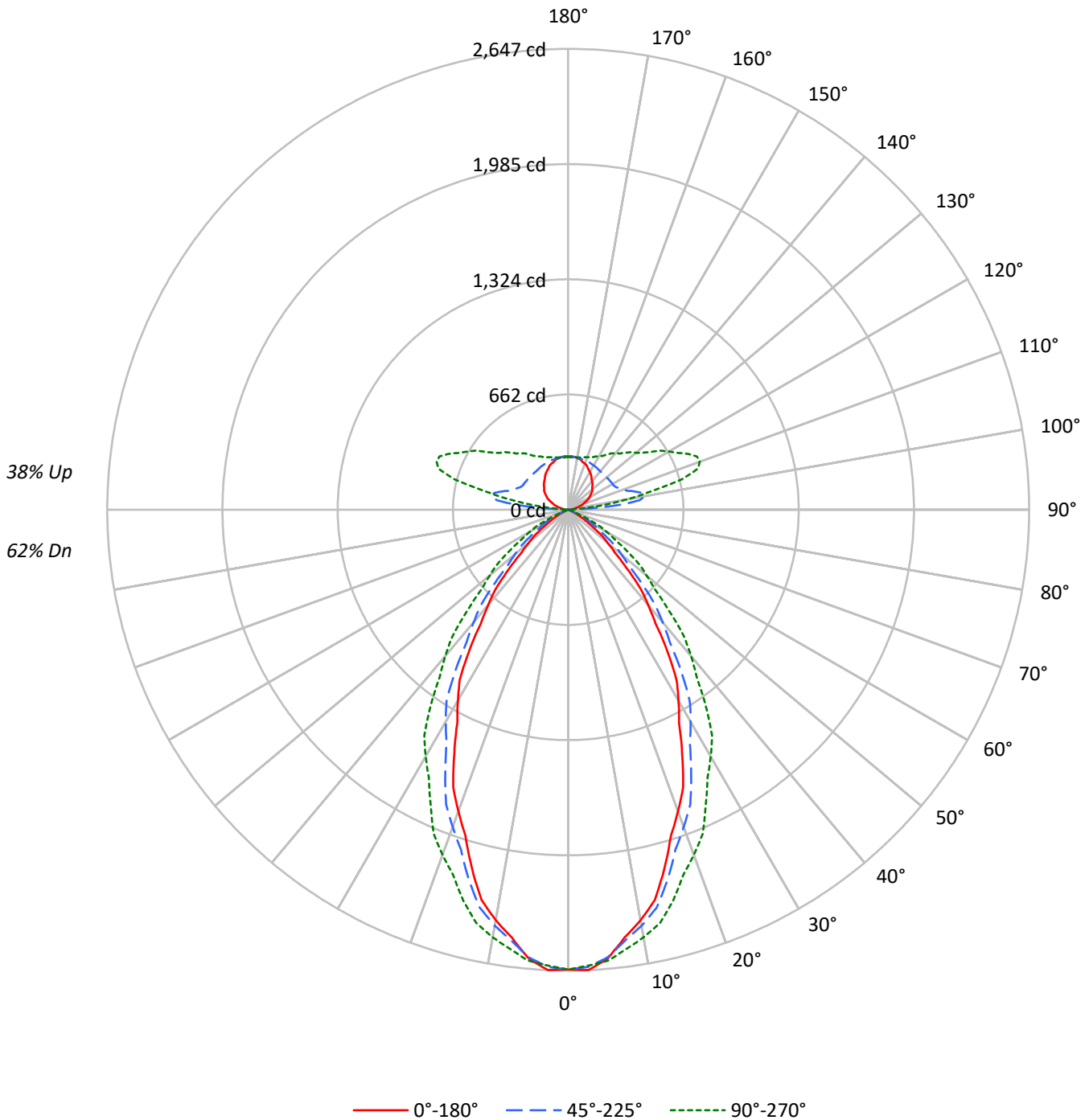
Input Watts (W): 69.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P521016

CATALOG NUMBER: SQ4-BB-025U-125D-92765-1D-UNV-STD-W-4_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P521016

CATALOG NUMBER: SQ4-BB-025U-125D-92765-1D-UNV-STD-W-4_3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68	62		
1	103	99	96	93	96	93	91	88	82	81	79	72	71	70	63	62	61	57		
2	96	89	84	80	90	84	80	76	75	72	69	66	64	62	58	57	55	52		
3	89	81	75	70	83	76	71	67	68	64	61	61	58	55	54	52	50	47		
4	82	73	66	61	78	69	63	59	62	58	54	56	52	50	50	47	45	42		
5	77	67	60	54	72	63	57	52	57	52	48	52	48	45	46	43	41	38		
6	72	61	54	49	67	58	52	47	53	48	44	48	44	40	43	40	37	35		
7	67	56	49	44	63	53	47	42	49	43	40	44	40	37	40	37	34	32		
8	63	52	45	40	59	49	43	39	45	40	36	41	37	34	37	34	32	29		
9	59	48	41	36	56	46	39	35	42	37	33	38	34	31	35	32	29	27		
10	55	44	38	33	52	43	36	32	39	34	31	36	32	29	33	29	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24365	24365	24365
5°	23973	23914	24092
10°	22431	22730	23364
15°	20392	21039	22210
20°	18101	19042	20711
25°	15764	17012	19028
30°	13502	14986	17436
35°	11196	12721	15513
40°	8602	10171	13218
45°	6219	7702	10635
50°	4236	5740	8436
55°	2754	4152	6556
60°	1580	2923	4739
65°	419	1786	2399
70°	208	550	691
75°	93	46	0
80°	69	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10635 cd/sqm

TEST NUMBER: P521016

CATALOG NUMBER: SQ4-BB-025U-125D-92765-1D-UNV-STD-W-4_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.0	4.8
10°-20°	616.3	12.2
20°-30°	771.6	15.3
30°-40°	712.7	14.1
40°-50°	478.9	9.5
50°-60°	247.4	4.9
60°-70°	77.5	1.5
70°-80°	4.9	0.1
80°-90°	0.1	0.0
90°-100°	138.8	2.8
100°-110°	394.8	7.8
110°-120°	378.2	7.5
120°-130°	299.4	5.9
130°-140°	240.3	4.8
140°-150°	188.1	3.7
150°-160°	137.6	2.7
160°-170°	85.3	1.7
170°-180°	28.9	0.6
0°-30°	1628.9	32.3
0°-40°	2341.6	46.4
0°-60°	3067.9	60.8
0°-90°	3150.3	62.5
90°-120°	911.8	18.1
90°-150°	1639.5	32.5
90°-180°	1891.0	37.5
0°-180°	5041.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2641	2641	2641	2641	2641	
5°	2588	2562	2582	2591	2601	240
15°	2135	2127	2203	2277	2325	595
25°	1548	1561	1671	1786	1869	710
35°	994	1019	1129	1262	1377	616
45°	477	505	590	705	815	374
55°	171	200	258	331	408	160
65°	19	37	82	99	110	32
75°	3	3	1	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	1
95°	15	60	269	93	57	17
105°	61	93	402	711	676	65
115°	114	138	305	646	759	112
125°	161	178	291	483	578	144
135°	197	213	288	408	461	152
145°	232	244	290	353	385	145
155°	265	271	297	319	332	123
165°	293	294	300	307	311	82
175°	307	305	304	302	300	29
180°	304	304	304	304	304	

TEST NUMBER: P521016

CATALOG NUMBER: SQ4-BB-025U-125D-92765-1D-UNV-STD-W-4_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2640.9	2640.9	2640.9	2640.9	2640.9
2.5°	2647.0	2622.0	2628.6	2628.4	2621.4
5°	2588.5	2562.2	2582.1	2591.3	2601.3
7.5°	2479.1	2458.6	2496.7	2525.3	2546.1
10°	2394.3	2376.8	2426.2	2465.2	2493.9
12.5°	2296.2	2282.7	2342.4	2395.9	2432.6
15°	2134.9	2127.4	2202.6	2276.6	2325.3
17.5°	1962.2	1961.9	2047.8	2139.6	2198.3
20°	1843.6	1847.4	1939.4	2040.7	2109.4
22.5°	1725.1	1733.8	1832.1	1937.7	2016.4
25°	1548.5	1561.0	1671.1	1785.5	1869.2
27.5°	1378.8	1397.1	1513.0	1631.8	1733.7
30°	1267.4	1288.6	1406.7	1531.7	1636.6
32.5°	1158.0	1183.3	1298.3	1430.6	1537.5
35°	994.0	1019.0	1129.4	1262.4	1377.3
37.5°	824.6	849.1	956.9	1087.8	1212.0
40°	714.2	741.7	844.5	971.3	1097.5
42.5°	614.0	641.5	738.2	862.8	982.0
45°	476.6	505.3	590.3	705.2	815.1
47.5°	362.6	393.8	468.4	572.4	672.5
50°	295.1	326.4	399.9	491.5	587.7
52.5°	241.0	271.2	337.5	423.9	512.1
55°	171.2	199.9	258.1	331.4	407.6
57.5°	118.3	143.0	195.2	256.4	316.1
60°	85.6	109.3	158.4	208.1	256.8
62.5°	57.0	78.7	126.7	164.8	197.5
65°	19.2	36.7	81.8	98.6	109.9
67.5°	9.7	11.7	42.9	45.3	49.1
70°	7.7	7.7	20.4	21.8	25.6
72.5°	5.6	5.6	8.2	10.5	11.2
75°	2.6	2.6	1.3	0.0	0.0
77.5°	1.3	1.3	1.0	0.0	0.0
80°	1.3	1.3	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°	4.6	24.6	57.0	16.6	12.5
95°	15.1	59.8	268.6	93.0	57.3
97.5°	27.7	70.0	413.7	296.0	202.8
100°	36.5	76.1	445.1	450.9	347.3
102.5°	46.2	82.6	438.2	577.2	486.7
105°	61.4	93.1	402.3	710.6	675.5
107.5°	76.8	105.2	360.4	748.3	779.5
110°	87.4	114.0	336.3	733.9	804.0

TEST NUMBER: P521016

CATALOG NUMBER: SQ4-BB-025U-125D-92765-1D-UNV-STD-W-4_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	97.6	122.8	320.1	699.8	799.9
115°	114.0	137.8	305.1	646.3	758.9
117.5°	128.5	150.8	296.1	587.7	707.0
120°	140.1	158.8	295.2	554.3	668.6
122.5°	149.3	168.0	292.9	524.9	631.1
125°	160.9	178.5	291.2	483.2	577.7
127.5°	173.5	190.0	290.2	458.3	536.1
130°	180.0	196.4	288.9	440.9	508.8
132.5°	187.0	202.9	288.9	427.3	489.8
135°	196.8	213.2	287.7	408.2	461.4
137.5°	206.1	222.0	287.6	391.9	437.9
140°	213.0	229.4	287.1	378.4	422.6
142.5°	220.9	234.6	288.5	367.7	407.3
145°	232.1	244.0	290.0	353.2	384.9
147.5°	241.7	253.3	292.6	338.7	366.1
150°	250.1	258.0	293.5	333.9	353.1
152.5°	256.6	264.9	294.4	327.3	345.2
155°	265.1	271.3	297.0	319.3	332.3
157.5°	275.8	279.5	297.5	315.6	324.9
160°	281.3	284.2	299.9	312.8	320.7
162.5°	284.6	287.9	300.3	310.4	316.5
165°	292.9	294.0	300.4	306.9	311.4
167.5°	298.6	297.6	303.1	306.0	307.8
170°	300.4	299.9	302.2	302.8	305.1
172.5°	304.6	302.7	303.6	301.9	303.7
175°	306.8	305.1	303.9	302.1	299.9
177.5°	307.7	305.0	303.6	301.7	302.2
180°	304.5	304.5	304.5	304.5	304.5

(END OF REPORT)