

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

(formerly Eaton)

Brand: CORELITE

Report Number: P523725

Luminaire Tested: **SQ4-PP3-075U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523725
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-050D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5275.9 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

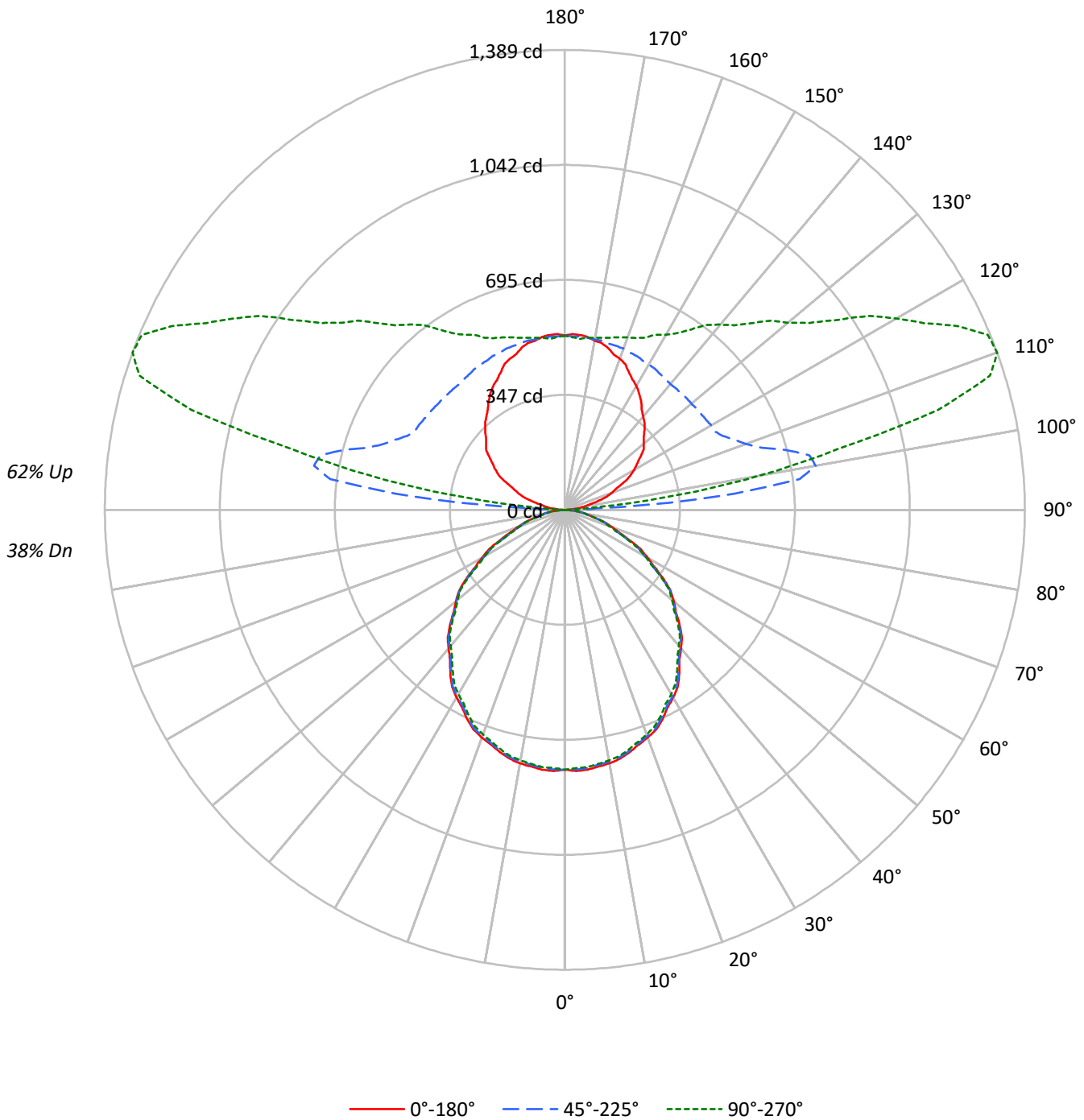
Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P523725

CATALOG NUMBER: SQ4-PP3-075U-050D-92765-1D-UNV-STD-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P523725

CATALOG NUMBER: SQ4-PP3-075U-050D-92765-1D-UNV-STD-W-4 (3500K)

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32
2	87	80	74	69	79	73	68	63	59	56	53	47	44	42	35	34	33	27
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	66	57	50	45	46	42	38	37	34	31	28	26	24	20
5	66	55	47	41	60	50	44	38	42	36	32	33	30	27	25	23	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	57	45	37	31	51	41	34	29	34	29	25	27	23	21	21	18	16	14
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	17	15	12
9	49	37	29	25	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7240	7240	7240
5°	7293	7249	7223
10°	7281	7230	7197
15°	7233	7193	7154
20°	7185	7145	7091
25°	7100	7051	6980
30°	6968	6931	6844
35°	6786	6740	6654
40°	6569	6528	6453
45°	6390	6345	6281
50°	6160	6120	6061
55°	5841	5763	5720
60°	5318	5165	5139
65°	4685	4488	4475
70°	4044	3876	3876
75°	3483	3433	3383
80°	3071	3108	3034
85°	2403	2625	2625



TEST NUMBER: P523725

CATALOG NUMBER: SQ4-PP3-075U-050D-92765-1D-UNV-STD-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	1.4
10°-20°	211.9	4.0
20°-30°	317.4	6.0
30°-40°	372.3	7.1
40°-50°	373.4	7.1
50°-60°	318.5	6.0
60°-70°	207.7	3.9
70°-80°	104.2	2.0
80°-90°	28.9	0.5
90°-100°	239.7	4.5
100°-110°	682.0	12.9
110°-120°	653.4	12.4
120°-130°	517.2	9.8
130°-140°	415.1	7.9
140°-150°	325.0	6.2
150°-160°	237.8	4.5
160°-170°	147.3	2.8
170°-180°	50.0	0.9
0°-30°	603.5	11.4
0°-40°	975.7	18.5
0°-60°	1667.7	31.6
0°-90°	2008.5	38.1
90°-120°	1575.1	29.9
90°-150°	2832.3	53.7
90°-180°	3267.0	61.9
0°-180°	5275.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	785	785	785	785	785	
5°	788	780	783	780	780	75
15°	757	750	753	750	749	214
25°	697	689	693	686	686	321
35°	602	596	598	592	591	376
45°	490	486	486	481	481	377
55°	363	362	358	356	356	323
65°	215	210	206	204	205	214
75°	98	98	96	96	95	106
85°	23	25	25	25	25	27
90°	0	0	0	0	0	2
95°	26	103	464	161	99	30
105°	106	161	695	1228	1167	112
115°	197	238	527	1116	1311	194
125°	278	308	503	835	998	249
135°	340	368	497	705	797	262
145°	401	422	501	610	665	250
155°	458	469	513	552	574	212
165°	506	508	519	530	538	142
175°	530	527	525	522	518	50
180°	526	526	526	526	526	

TEST NUMBER: P523725

CATALOG NUMBER: SQ4-PP3-075U-050D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	784.7	784.7	784.7	784.7	784.7
2.5°	789.7	783.2	784.7	783.6	780.3
5°	787.5	780.1	782.7	779.9	779.9
7.5°	782.1	774.1	776.6	773.9	773.7
10°	777.2	769.1	771.7	768.9	768.2
12.5°	770.0	762.0	765.1	761.8	761.6
15°	757.2	749.8	753.1	750.3	749.0
17.5°	742.8	734.7	738.7	734.8	734.3
20°	731.8	723.7	727.7	722.2	722.2
22.5°	718.6	710.5	715.0	707.8	707.8
25°	697.4	689.3	692.6	686.4	685.7
27.5°	672.2	664.3	667.7	660.7	660.5
30°	654.1	646.7	650.6	643.0	642.4
32.5°	634.3	627.4	630.3	622.7	622.0
35°	602.5	596.4	598.4	591.5	590.8
37.5°	569.1	562.9	565.1	559.1	558.9
40°	545.4	541.4	542.0	537.1	535.8
42.5°	523.4	518.8	519.4	514.6	514.3
45°	489.7	486.3	486.3	481.4	481.4
47.5°	453.9	451.4	450.6	446.6	446.5
50°	429.2	427.1	426.4	423.0	422.3
52.5°	403.3	402.4	400.0	397.1	397.0
55°	363.1	361.8	358.3	356.2	355.6
57.5°	319.5	316.8	312.9	309.9	310.5
60°	288.2	285.5	279.9	278.5	278.5
62.5°	257.9	254.7	249.1	247.2	248.3
65°	214.6	210.5	205.6	204.3	205.0
67.5°	175.2	171.6	166.3	166.3	165.8
70°	149.9	147.9	143.7	143.7	143.7
72.5°	127.4	126.4	123.4	123.4	122.8
75°	97.7	97.7	96.3	95.6	94.9
77.5°	73.2	73.4	72.8	72.1	70.8
80°	57.8	59.1	58.5	57.8	57.1
82.5°	43.5	44.8	44.7	43.5	43.3
85°	22.7	24.7	24.8	24.8	24.8
87.5°	6.1	8.2	8.8	8.8	9.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.0	42.4	98.4	28.6	21.6
95°	26.0	103.2	464.0	160.6	99.0
97.5°	47.8	120.9	714.6	511.3	350.4
100°	63.0	131.4	769.0	778.9	600.0
102.5°	79.8	142.8	757.0	997.0	840.8
105°	106.0	160.8	695.0	1227.6	1167.0
107.5°	132.6	181.7	622.6	1292.6	1346.6
110°	151.0	197.0	581.0	1267.8	1389.0

TEST NUMBER: P523725

CATALOG NUMBER: SQ4-PP3-075U-050D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	168.6	212.2	553.0	1208.9	1381.8
115°	197.0	238.1	527.0	1116.4	1311.0
117.5°	222.0	260.5	511.6	1015.3	1221.4
120°	242.0	274.3	510.0	957.5	1155.0
122.5°	258.0	290.3	506.0	906.8	1090.2
125°	278.0	308.3	503.0	834.7	998.0
127.5°	299.8	328.2	501.4	791.7	926.2
130°	311.0	339.4	499.0	761.7	879.0
132.5°	323.0	350.6	499.0	738.3	846.2
135°	340.0	368.4	497.0	705.1	797.0
137.5°	356.0	383.6	496.8	677.0	756.4
140°	368.0	396.4	496.0	653.7	730.0
142.5°	381.6	405.3	498.4	635.2	703.6
145°	401.0	421.5	501.0	610.2	665.0
147.5°	417.6	437.5	505.4	585.1	632.4
150°	432.0	445.7	507.0	576.8	610.0
152.5°	443.2	457.7	508.6	565.5	596.4
155°	458.0	468.8	513.0	551.5	574.0
157.5°	476.4	482.9	514.0	545.2	561.2
160°	486.0	490.9	518.0	540.3	554.0
162.5°	491.6	497.3	518.8	536.2	546.8
165°	506.0	508.0	519.0	530.2	538.0
167.5°	515.8	514.0	523.6	528.7	531.8
170°	519.0	518.0	522.0	523.1	527.0
172.5°	526.2	522.9	524.4	521.5	524.6
175°	530.0	527.1	525.0	521.9	518.0
177.5°	531.6	526.9	524.4	521.2	522.0
180°	526.0	526.0	526.0	526.0	526.0

(END OF REPORT)