

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: P523626

Luminaire Tested: **SQ4-PP3-025U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523626
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-PP3-025U-050D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

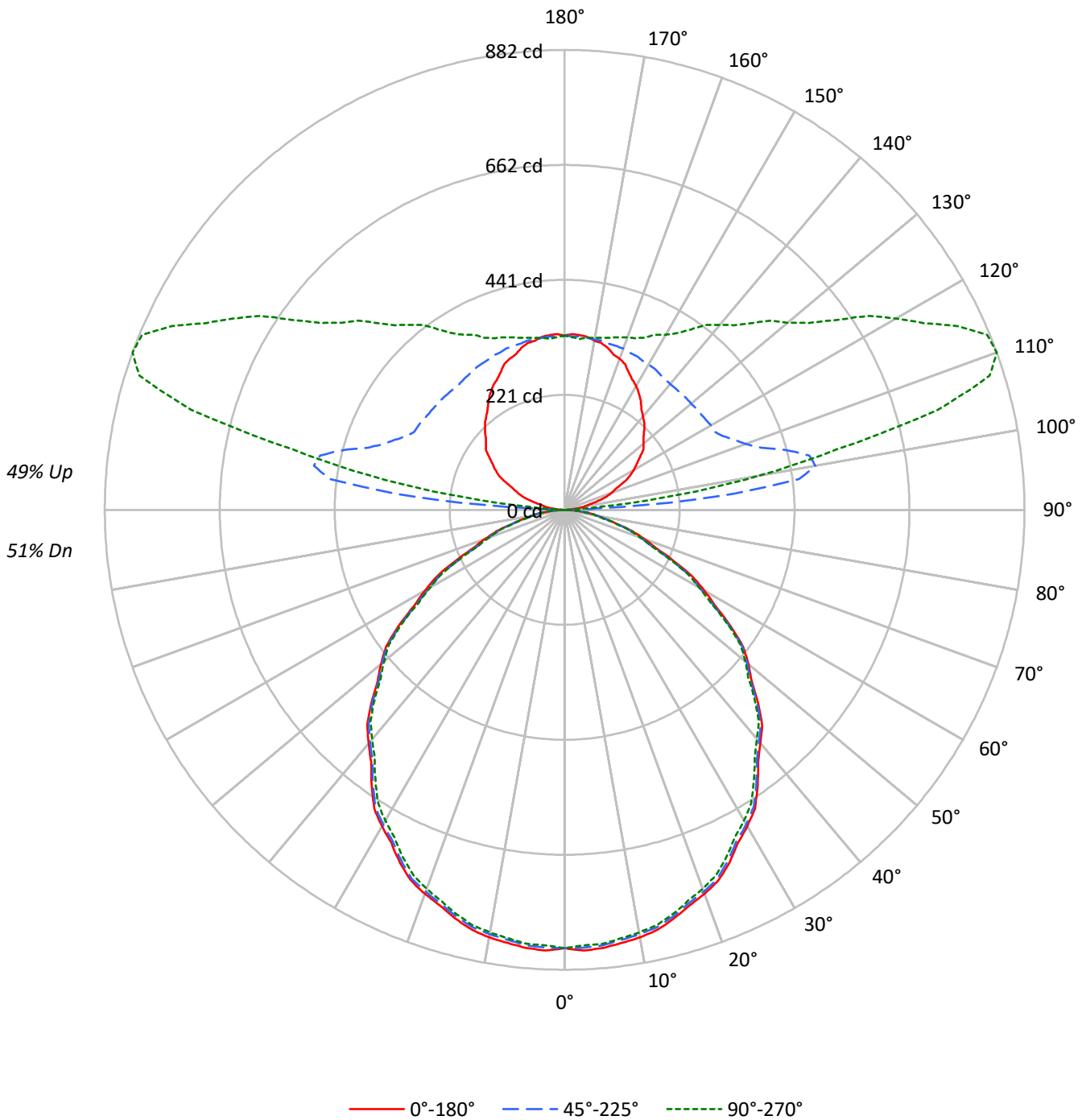
Lumens per Lamp: N/A
Luminaire Lumens: 4225.9 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 34.4
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: P523626
CATALOG NUMBER: SQ4-PP3-025U-050D-92765-1D-UNV-STD-W-4 (6500K)

Luminous Intensity Polar Plot





TEST NUMBER: P523626

CATALOG NUMBER: SQ4-PP3-025U-050D-92765-1D-UNV-STD-W-4 (6500K)

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	87	91	87	84	81	74	71	69	62	60	59	51	50	49	43
2	90	82	76	71	83	76	71	67	65	61	58	54	52	49	45	43	41	37
3	82	72	65	59	75	67	61	56	57	53	49	48	45	42	40	37	35	31
4	75	64	56	50	69	60	53	47	51	46	42	43	39	36	36	33	30	27
5	69	57	49	43	63	53	46	41	46	40	36	39	34	31	32	29	27	23
6	63	51	43	37	58	48	41	35	41	36	31	35	31	27	29	26	23	21
7	59	46	38	33	54	43	36	31	37	32	28	32	27	24	27	23	21	18
8	54	42	34	29	50	39	32	28	34	29	25	29	25	22	24	21	19	16
9	51	38	31	26	47	36	29	25	31	26	22	27	22	19	23	19	17	15
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7756	7756	7756
5°	7812	7765	7737
10°	7799	7744	7709
15°	7747	7705	7663
20°	7696	7652	7594
25°	7604	7552	7477
30°	7464	7424	7331
35°	7268	7219	7127
40°	7036	6992	6912
45°	6844	6795	6729
50°	6598	6555	6492
55°	6257	6174	6127
60°	5696	5532	5506
65°	5017	4809	4792
70°	4332	4154	4154
75°	3729	3675	3625
80°	3289	3326	3246
85°	2572	2805	2805



TEST NUMBER: P523626

CATALOG NUMBER: SQ4-PP3-025U-050D-92765-1D-UNV-STD-W-4 (6500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	1.9
10°-20°	227.0	5.4
20°-30°	339.9	8.0
30°-40°	398.7	9.4
40°-50°	400.0	9.5
50°-60°	341.2	8.1
60°-70°	222.5	5.3
70°-80°	111.6	2.6
80°-90°	30.9	0.7
90°-100°	152.2	3.6
100°-110°	433.0	10.2
110°-120°	414.9	9.8
120°-130°	328.4	7.8
130°-140°	263.6	6.2
140°-150°	206.3	4.9
150°-160°	151.0	3.6
160°-170°	93.5	2.2
170°-180°	31.7	0.8
0°-30°	646.4	15.3
0°-40°	1045.1	24.7
0°-60°	1786.3	42.3
0°-90°	2151.4	50.9
90°-120°	1000.1	23.7
90°-150°	1798.3	42.6
90°-180°	2075.0	49.1
0°-180°	4225.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	841	841	841	841	841	
5°	844	836	838	835	835	80
15°	811	803	807	804	802	229
25°	747	738	742	735	734	343
35°	645	639	641	634	633	403
45°	524	521	521	516	516	404
55°	389	388	384	382	381	346
65°	230	226	220	219	220	229
75°	105	105	103	102	102	113
85°	24	26	26	26	26	29
90°	0	0	0	0	0	2
95°	16	66	295	102	63	19
105°	67	102	441	779	741	71
115°	125	151	335	709	832	123
125°	176	196	319	530	634	158
135°	216	234	316	448	506	167
145°	255	268	318	388	422	159
155°	291	298	326	350	364	134
165°	321	322	330	337	342	90
175°	336	335	333	331	329	32
180°	334	334	334	334	334	



TEST NUMBER: P523626

CATALOG NUMBER: SQ4-PP3-025U-050D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	840.6	840.6	840.6	840.6	840.6
2.5°	845.9	838.9	840.6	839.3	835.8
5°	843.5	835.6	838.4	835.4	835.4
7.5°	837.8	829.1	831.9	828.9	828.8
10°	832.5	823.8	826.6	823.6	822.9
12.5°	824.8	816.2	819.5	816.0	815.8
15°	811.1	803.2	806.7	803.7	802.3
17.5°	795.6	787.0	791.2	787.1	786.5
20°	783.8	775.2	779.4	773.5	773.5
22.5°	769.7	761.0	765.9	758.2	758.2
25°	747.0	738.4	741.8	735.2	734.5
27.5°	720.0	711.5	715.2	707.7	707.5
30°	700.6	692.7	696.9	688.8	688.1
32.5°	679.4	672.0	675.1	667.0	666.3
35°	645.3	638.9	640.9	633.5	632.8
37.5°	609.5	602.9	605.3	598.9	598.6
40°	584.2	579.9	580.5	575.3	573.9
42.5°	560.6	555.7	556.3	551.2	550.9
45°	524.5	520.9	520.8	515.7	515.7
47.5°	486.2	483.5	482.7	478.4	478.3
50°	459.7	457.5	456.7	453.0	452.3
52.5°	432.0	431.0	428.5	425.4	425.2
55°	389.0	387.5	383.8	381.6	380.9
57.5°	342.3	339.4	335.2	332.0	332.5
60°	308.7	305.8	299.8	298.4	298.4
62.5°	276.3	272.8	266.8	264.8	265.9
65°	229.8	225.5	220.3	218.8	219.5
67.5°	187.7	183.8	178.1	178.1	177.5
70°	160.6	158.4	154.0	154.0	154.0
72.5°	136.4	135.4	132.2	132.1	131.6
75°	104.6	104.6	103.1	102.4	101.7
77.5°	78.4	78.7	77.9	77.2	75.9
80°	61.9	63.3	62.6	61.9	61.1
82.5°	46.6	48.0	47.9	46.6	46.4
85°	24.3	26.5	26.5	26.5	26.5
87.5°	6.5	8.8	9.4	9.4	10.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.1	26.9	62.5	18.2	13.7
95°	16.5	65.6	294.6	102.0	62.9
97.5°	30.3	76.8	453.7	324.7	222.5
100°	40.0	83.5	488.3	494.6	381.0
102.5°	50.7	90.6	480.6	633.0	533.8
105°	67.3	102.1	441.3	779.4	740.9
107.5°	84.2	115.4	395.3	820.7	855.0
110°	95.9	125.1	368.9	804.9	881.9



TEST NUMBER: P523626

CATALOG NUMBER: SQ4-PP3-025U-050D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.0	134.7	351.1	767.6	877.3
115°	125.1	151.2	334.6	708.8	832.4
117.5°	141.0	165.4	324.8	644.6	775.5
120°	153.7	174.1	323.8	607.9	733.3
122.5°	163.8	184.3	321.3	575.7	692.2
125°	176.5	195.8	319.4	530.0	633.6
127.5°	190.3	208.4	318.3	502.6	588.1
130°	197.5	215.5	316.8	483.6	558.1
132.5°	205.1	222.6	316.8	468.7	537.3
135°	215.9	233.9	315.6	447.7	506.0
137.5°	226.0	243.5	315.4	429.8	480.3
140°	233.7	251.7	314.9	415.1	463.5
142.5°	242.3	257.3	316.4	403.3	446.7
145°	254.6	267.6	318.1	387.5	422.2
147.5°	265.1	277.8	320.9	371.5	401.5
150°	274.3	283.0	321.9	366.2	387.3
152.5°	281.4	290.6	322.9	359.0	378.7
155°	290.8	297.6	325.7	350.2	364.4
157.5°	302.5	306.6	326.3	346.1	356.3
160°	308.6	311.7	328.9	343.1	351.7
162.5°	312.1	315.7	329.4	340.5	347.2
165°	321.3	322.5	329.5	336.6	341.6
167.5°	327.5	326.4	332.4	335.7	337.6
170°	329.5	328.9	331.4	332.1	334.6
172.5°	334.1	332.0	333.0	331.1	333.1
175°	336.5	334.6	333.3	331.4	328.9
177.5°	337.5	334.5	333.0	330.9	331.4
180°	334.0	334.0	334.0	334.0	334.0

(END OF REPORT)