

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: P854076

Luminaire Tested: SQ2-PP3-025U-050D-930-UNV-STD-W-4

Issue Date: 7/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P854076
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-9, G2-2308-131-7)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2-PP3-025U-050D-930-UNV-STD-W-4
Description: CORELITE SQ2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

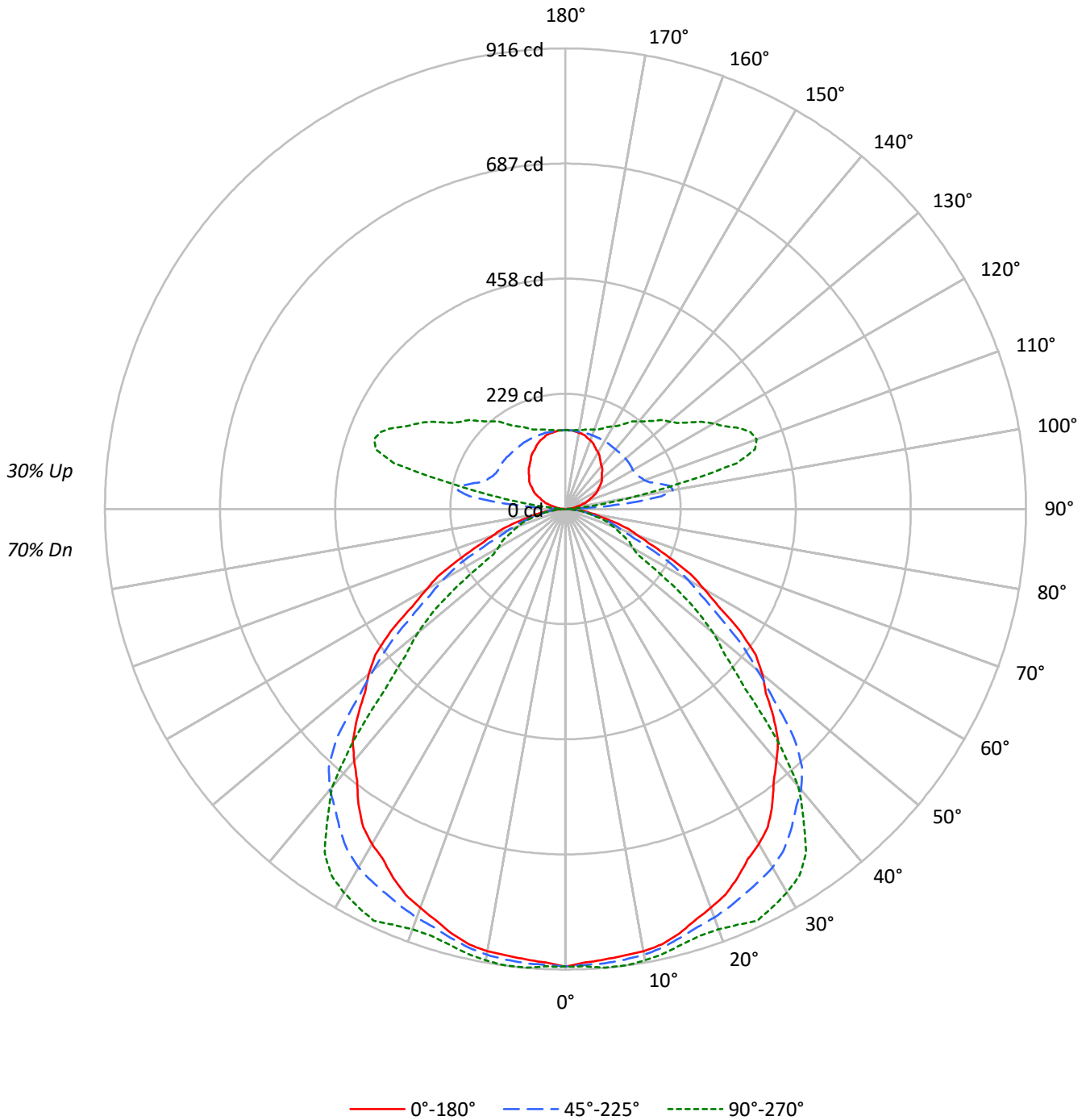
Lumens per Lamp: N/A
Luminaire Lumens: 3264.5 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.41 / 1.4
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 25.2
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: P854076

CATALOG NUMBER: SQ2-PP3-025U-050D-930-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P854076

CATALOG NUMBER: SQ2-PP3-025U-050D-930-UNV-STD-W-4

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	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75	70
1	103	99	95	92	97	94	91	88	84	82	79	75	74	72	67	66	65	61
2	94	87	81	76	89	83	78	73	75	71	67	67	64	61	60	58	56	52
3	87	77	70	64	82	74	67	62	66	61	57	60	56	52	54	51	48	45
4	80	69	61	55	75	66	59	53	59	54	49	54	49	45	48	45	42	39
5	73	62	54	48	69	59	51	46	53	47	43	48	44	40	44	40	37	34
6	68	56	47	42	64	53	46	40	48	42	38	44	39	35	40	36	33	30
7	63	50	42	37	59	48	41	36	44	38	33	40	35	31	36	32	29	27
8	58	46	38	33	55	44	37	32	40	34	30	37	32	28	34	29	26	24
9	54	42	34	29	52	40	33	29	37	31	27	34	29	25	31	27	24	22
10	51	39	31	26	48	37	30	26	34	28	24	31	26	23	29	25	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14691	14691	14691
5°	14575	14700	14840
10°	14649	14759	14949
15°	14614	14758	14984
20°	14510	14857	15287
25°	14427	15045	16089
30°	14344	15349	16425
35°	14142	15394	16454
40°	13765	15365	15205
45°	13353	14671	11574
50°	12828	12514	9640
55°	11941	10531	6930
60°	10282	9038	4970
65°	8672	6980	4886
70°	7218	5495	4678
75°	6120	4741	4379
80°	5188	4110	3933
85°	4094	3390	2130

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14671 cd/sqm



TEST NUMBER: P854076

CATALOG NUMBER: SQ2-PP3-025U-050D-930-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	2.7
10°-20°	250.7	7.7
20°-30°	392.8	12.0
30°-40°	484.6	14.8
40°-50°	456.2	14.0
50°-60°	323.0	9.9
60°-70°	184.0	5.6
70°-80°	91.1	2.8
80°-90°	22.7	0.7
90°-100°	63.4	1.9
100°-110°	197.3	6.0
110°-120°	193.0	5.9
120°-130°	157.6	4.8
130°-140°	128.9	3.9
140°-150°	100.6	3.1
150°-160°	72.6	2.2
160°-170°	44.4	1.4
170°-180°	15.0	0.5
0°-30°	730.2	22.4
0°-40°	1214.8	37.2
0°-60°	1994.0	61.1
0°-90°	2291.8	70.2
90°-120°	453.7	13.9
90°-150°	840.8	25.8
90°-180°	973.0	29.8
0°-180°	3264.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	899	915	907	909	916	86
15°	874	886	883	892	896	246
25°	810	830	844	879	903	373
35°	718	737	781	825	835	447
45°	585	629	642	544	507	450
55°	424	450	374	282	246	374
65°	227	239	183	129	128	228
75°	98	108	76	71	70	106
85°	22	20	18	14	12	26
90°	0	1	3	3	3	1
95°	9	26	116	43	28	10
105°	35	49	194	371	354	37
115°	62	73	158	325	381	61
125°	86	95	156	256	300	76
135°	103	114	155	221	248	80
145°	120	130	155	191	208	75
155°	138	142	156	171	177	63
165°	151	152	157	162	164	42
175°	157	157	157	158	157	15
180°	157	157	157	157	157	

TEST NUMBER: P854076

CATALOG NUMBER: SQ2-PP3-025U-050D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	909.9	909.9	909.9	909.9	909.9
2.5°	902.9	915.7	907.6	909.1	910.6
5°	899.3	915.3	907.0	909.1	915.6
7.5°	895.8	912.2	904.1	907.6	915.6
10°	893.5	907.6	900.2	905.2	911.8
12.5°	886.6	899.9	893.3	899.8	905.6
15°	874.3	886.5	882.9	891.7	896.4
17.5°	857.5	872.4	872.4	884.8	889.7
20°	844.5	862.3	864.7	880.3	889.7
22.5°	830.6	851.5	855.4	878.9	895.1
25°	809.8	830.5	844.5	878.7	903.1
27.5°	785.6	806.1	834.8	873.2	892.6
30°	769.4	789.2	823.3	863.1	881.0
32.5°	749.4	769.9	806.4	849.3	865.6
35°	717.5	737.3	781.0	825.4	834.8
37.5°	680.8	703.1	752.1	777.0	777.5
40°	653.1	682.2	729.0	733.6	721.4
42.5°	626.1	663.6	696.7	676.5	622.1
45°	584.8	629.0	642.5	544.5	506.9
47.5°	540.7	584.4	562.8	456.7	430.7
50°	510.7	552.1	498.2	408.2	383.8
52.5°	476.9	513.7	440.5	361.8	324.5
55°	424.2	449.5	374.1	282.0	246.2
57.5°	360.7	378.5	319.9	211.6	171.6
60°	318.4	332.5	279.9	173.6	153.9
62.5°	279.9	292.5	238.3	150.8	143.9
65°	227.0	239.2	182.7	128.9	127.9
67.5°	180.6	194.0	140.2	112.5	111.4
70°	152.9	167.0	116.4	100.9	99.1
72.5°	129.8	143.2	98.7	88.7	87.5
75°	98.1	108.4	76.0	71.2	70.2
77.5°	71.2	77.8	56.6	54.0	53.1
80°	55.8	58.6	44.2	43.3	42.3
82.5°	41.9	41.0	33.5	32.5	30.8
85°	22.1	20.2	18.3	14.4	11.5
87.5°	6.9	7.1	3.7	2.9	2.9
90°	0.0	0.9	2.9	2.9	2.9
92.5°	3.1	10.8	36.7	12.1	9.8
95°	8.7	25.6	116.3	42.9	27.9
97.5°	15.8	33.3	192.7	119.9	75.6
100°	21.2	37.1	217.3	203.3	135.6
102.5°	26.5	41.8	212.7	290.3	227.9
105°	34.6	48.7	194.2	370.7	353.8
107.5°	42.7	55.9	176.5	376.9	395.6
110°	48.1	61.2	167.3	368.1	404.8



TEST NUMBER: P854076

CATALOG NUMBER: SQ2-PP3-025U-050D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.5	65.9	162.7	352.2	398.6
115°	61.5	72.8	157.7	325.3	380.7
117.5°	69.4	79.8	155.6	299.5	356.3
120°	74.0	84.4	154.8	284.9	339.4
122.5°	78.6	89.0	155.6	272.5	322.5
125°	85.6	95.0	155.8	255.8	300.0
127.5°	91.1	100.7	155.8	243.3	280.9
130°	94.2	104.6	155.8	236.3	270.2
132.5°	98.1	108.4	155.0	230.1	261.7
135°	102.9	114.2	154.8	220.8	248.1
137.5°	108.5	118.8	154.8	211.5	236.3
140°	111.5	121.9	154.8	205.3	227.9
142.5°	115.4	125.0	154.8	199.1	219.4
145°	120.2	129.6	154.8	190.8	207.7
147.5°	126.0	134.0	155.8	183.0	196.3
150°	129.8	136.4	155.8	179.1	189.4
152.5°	132.9	138.7	155.8	175.2	184.0
155°	137.5	142.2	155.8	171.3	176.9
157.5°	142.1	145.7	155.8	167.8	171.3
160°	145.2	148.0	155.8	165.4	168.3
162.5°	147.5	149.6	155.8	163.9	166.0
165°	151.0	151.9	156.7	161.6	163.5
167.5°	153.1	153.3	155.8	160.2	161.1
170°	153.8	154.8	155.8	158.7	159.6
172.5°	155.4	155.6	156.5	157.9	158.1
175°	156.7	156.7	156.7	157.7	156.7
177.5°	156.7	156.7	156.7	156.7	156.7
180°	156.7	156.7	156.7	156.7	156.7



TEST NUMBER: P854076

CATALOG NUMBER: SQ2-PP3-025U-050D-930-UNV-STD-W-4

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.59	19.61	19.35	20.40	21.35	14.98	16.01	15.75	16.80	17.75
	3H	19.69	20.61	20.48	21.41	22.39	16.10	17.02	16.88	17.81	18.80
	4H	20.04	20.91	20.85	21.71	22.71	16.57	17.43	17.37	18.24	19.23
	6H	20.27	21.06	21.08	21.88	22.88	16.92	17.72	17.74	18.53	19.54
	8H	20.32	21.08	21.15	21.91	22.92	17.02	17.77	17.84	18.60	19.61
	12H	20.34	21.06	21.17	21.89	22.92	17.03	17.76	17.86	18.58	19.62
4H	2H	18.72	19.58	19.52	20.38	21.38	15.72	16.58	16.52	17.38	18.38
	3H	20.04	20.75	20.86	21.59	22.60	16.98	17.70	17.80	18.54	19.55
	4H	20.52	21.17	21.35	22.01	23.05	17.55	18.19	18.38	19.03	20.07
	6H	20.87	21.43	21.71	22.29	23.33	17.99	18.55	18.84	19.41	20.46
	8H	20.96	21.48	21.81	22.34	23.40	18.12	18.64	18.97	19.50	20.55
	12H	21.01	21.48	21.88	22.35	23.41	18.15	18.62	19.02	19.50	20.56
8H	4H	20.55	21.07	21.40	21.93	22.99	17.83	18.35	18.68	19.21	20.27
	6H	20.99	21.42	21.87	22.32	23.37	18.38	18.81	19.26	19.71	20.77
	8H	21.14	21.53	22.03	22.42	23.49	18.57	18.95	19.46	19.84	20.92
	12H	21.24	21.58	22.13	22.46	23.59	18.65	18.99	19.54	19.87	21.00
12H	4H	20.52	20.99	21.39	21.86	22.92	17.85	18.31	18.71	19.19	20.25
	6H	20.98	21.36	21.86	22.25	23.33	18.43	18.82	19.32	19.71	20.79
	8H	21.15	21.49	22.04	22.38	23.51	18.65	18.99	19.54	19.87	21.00