

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: P564534

Luminaire Tested: **SQ4-PW1-025U-050D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564534
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-025U-050D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

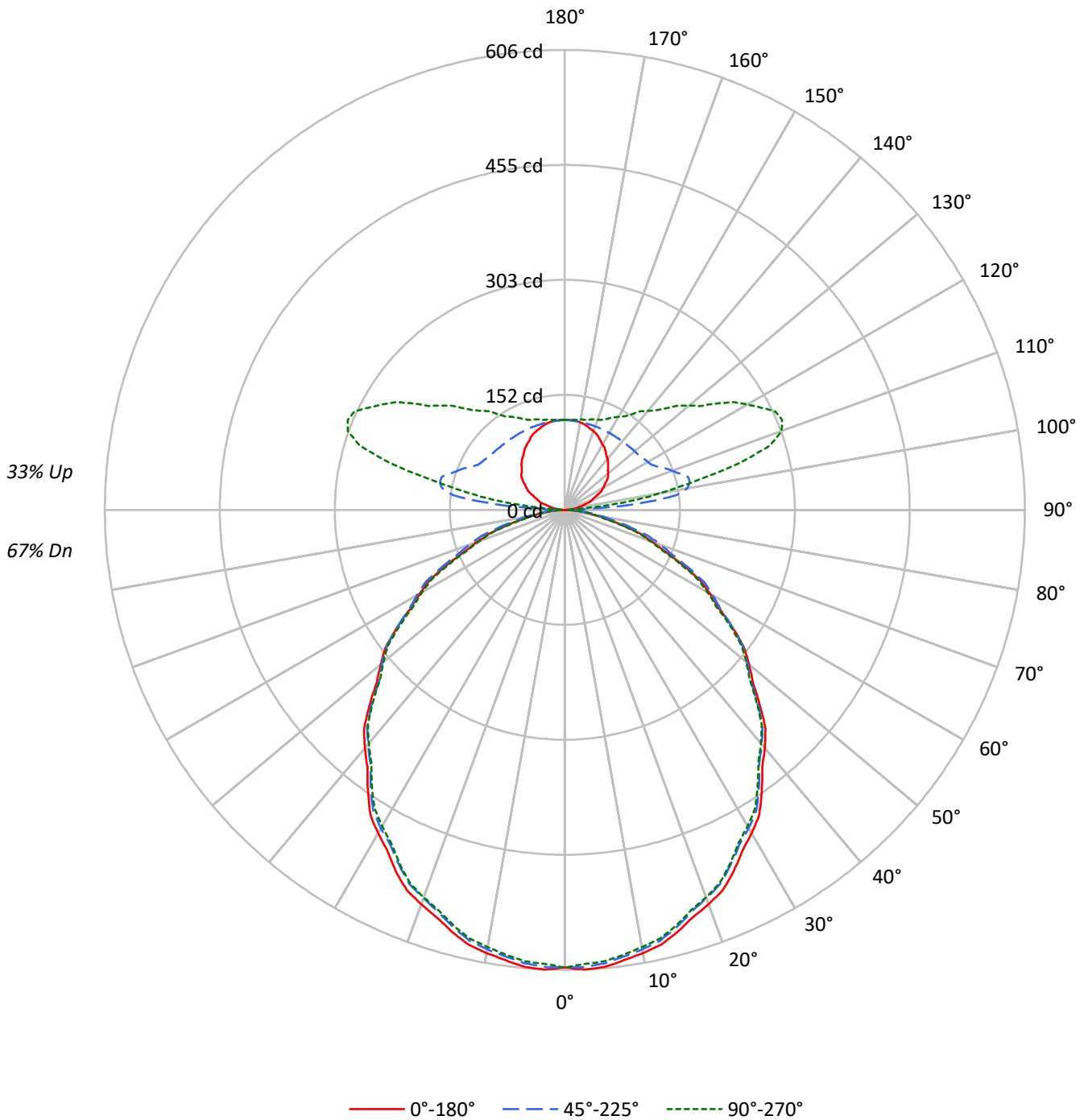
Lumens per Lamp: N/A
Luminaire Lumens: 2303.6 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 22.1
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				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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	63	62	61	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	67	61	79	71	64	59	63	58	54	56	52	49	50	46	44	40
4	78	66	58	52	73	63	56	50	56	50	46	50	45	42	44	41	38	35
5	71	59	51	45	67	56	49	43	50	44	40	45	40	36	40	36	33	30
6	66	53	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	30	53	42	35	29	38	32	27	34	29	25	31	26	23	21
9	53	40	32	27	50	38	31	26	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	28	24	32	26	22	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5563	5563	5563
5°	5599	5555	5531
10°	5555	5510	5481
15°	5496	5435	5415
20°	5431	5347	5336
25°	5355	5257	5241
30°	5242	5162	5129
35°	5092	5021	4991
40°	4933	4857	4838
45°	4742	4679	4658
50°	4546	4507	4477
55°	4333	4333	4264
60°	4069	4146	4000
65°	3722	3908	3631
70°	3283	3599	3197
75°	2802	3219	2727
80°	2173	2710	2200
85°	1408	2085	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	2.5
10°-20°	160.3	7.0
20°-30°	237.8	10.3
30°-40°	278.3	12.1
40°-50°	277.0	12.0
50°-60°	239.2	10.4
60°-70°	172.2	7.5
70°-80°	90.3	3.9
80°-90°	23.0	1.0
90°-100°	57.8	2.5
100°-110°	151.9	6.6
110°-120°	157.6	6.8
120°-130°	126.4	5.5
130°-140°	99.2	4.3
140°-150°	76.1	3.3
150°-160°	54.8	2.4
160°-170°	33.5	1.5
170°-180°	11.3	0.5
0°-30°	454.9	19.7
0°-40°	733.2	31.8
0°-60°	1249.4	54.2
0°-90°	1534.9	66.6
90°-120°	367.3	15.9
90°-150°	669.0	29.0
90°-180°	769.0	33.4
0°-180°	2303.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	603	603	603	603	603	
5°	605	598	600	598	597	57
15°	575	568	569	568	567	162
25°	526	517	516	513	515	242
35°	452	446	446	442	443	283
45°	363	360	359	358	357	280
55°	269	269	269	266	265	240
65°	170	176	179	172	166	169
75°	79	86	90	84	76	84
85°	13	17	20	19	18	18
90°	1	2	6	3	3	1
95°	8	30	100	51	35	8
105°	27	42	168	255	238	29
115°	49	59	135	268	306	48
125°	68	76	122	207	244	60
135°	81	89	119	167	189	62
145°	94	99	117	142	154	59
155°	106	109	117	129	132	49
165°	114	116	117	122	123	32
175°	119	119	118	119	119	11
180°	119	119	119	119	119	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	603.0	603.0	603.0	603.0	603.0
2.5°	606.4	601.4	603.0	601.7	598.8
5°	604.6	597.9	599.8	598.2	597.2
7.5°	598.5	592.2	593.7	592.0	591.3
10°	592.9	586.7	588.1	586.0	585.0
12.5°	586.6	579.9	581.3	579.2	578.6
15°	575.4	568.1	569.0	567.9	566.9
17.5°	562.4	555.1	555.2	553.5	553.3
20°	553.1	545.3	544.6	542.5	543.5
22.5°	542.9	534.7	534.0	531.0	532.5
25°	526.0	517.2	516.4	513.3	514.8
27.5°	506.4	497.7	497.7	493.3	495.0
30°	492.0	483.7	484.5	479.3	481.4
32.5°	476.7	469.2	469.7	464.4	466.5
35°	452.1	445.9	445.8	441.5	443.1
37.5°	427.1	421.6	420.7	418.2	418.7
40°	409.6	405.0	403.3	401.7	401.7
42.5°	391.4	387.1	385.4	384.2	383.8
45°	363.4	360.3	358.6	357.6	357.0
47.5°	335.8	332.9	331.4	330.7	330.1
50°	316.7	314.6	314.0	312.4	311.9
52.5°	297.5	296.3	295.7	293.7	293.2
55°	269.4	268.8	269.4	265.6	265.1
57.5°	240.0	240.9	242.6	237.6	236.3
60°	220.5	222.6	224.7	218.8	216.8
62.5°	200.5	203.8	206.9	200.1	197.2
65°	170.5	175.7	179.0	172.0	166.3
67.5°	141.6	148.1	152.1	144.5	138.0
70°	121.7	128.9	133.4	125.8	118.5
72.5°	104.2	112.3	115.9	108.8	101.5
75°	78.6	85.9	90.3	84.3	76.5
77.5°	55.8	62.6	66.3	61.1	54.6
80°	40.9	48.2	51.0	46.6	41.4
82.5°	29.0	35.0	37.0	34.3	30.8
85°	13.3	17.4	19.7	18.6	17.5
87.5°	3.6	6.8	9.3	8.7	9.1
90°	0.8	2.2	6.1	3.0	3.0
92.5°	3.2	15.4	34.1	15.1	9.7
95°	7.6	29.9	99.6	51.3	35.0
97.5°	13.2	32.8	149.0	118.5	87.3
100°	17.5	35.3	164.2	166.4	129.2
102.5°	21.1	37.8	168.5	207.3	175.4
105°	27.4	41.5	168.0	255.0	237.9
107.5°	33.8	46.8	158.4	279.8	284.0
110°	38.0	49.9	150.5	286.2	304.1

TEST NUMBER: P564534

CATALOG NUMBER: SQ4-PW1-025U-050D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	42.3	53.6	143.2	282.2	309.5
115°	48.7	59.1	134.6	268.4	306.4
117.5°	54.9	64.4	128.6	249.4	291.5
120°	58.5	67.5	126.2	236.6	277.5
122.5°	62.2	71.1	124.4	223.8	264.1
125°	67.7	75.8	122.4	206.9	244.0
127.5°	72.1	80.4	120.7	193.2	224.6
130°	74.5	83.4	120.1	184.6	213.6
132.5°	76.9	85.8	119.5	177.3	203.3
135°	80.6	88.8	118.6	167.0	189.3
137.5°	84.4	92.4	118.4	159.3	177.6
140°	87.4	94.9	117.8	153.2	170.3
142.5°	89.9	96.7	117.8	148.9	163.6
145°	93.5	99.4	117.1	142.4	153.6
147.5°	97.2	102.9	117.1	137.0	146.3
150°	99.6	104.8	117.1	134.0	141.4
152.5°	102.0	106.0	117.1	131.5	137.1
155°	105.7	108.6	117.1	128.6	132.3
157.5°	108.4	111.2	117.1	125.9	128.6
160°	110.2	112.5	117.1	124.7	126.2
162.5°	112.0	113.7	117.1	123.5	125.0
165°	114.0	115.5	117.1	121.7	123.1
167.5°	115.9	116.6	117.8	120.9	121.5
170°	117.1	117.8	117.8	120.9	120.9
172.5°	117.7	117.8	117.8	120.2	119.7
175°	118.6	118.6	117.8	119.3	119.3
177.5°	118.6	118.6	118.0	119.2	118.6
180°	118.6	118.6	118.6	118.6	118.6

(END OF REPORT)