

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: P563862

Luminaire Tested: **SQ4-PR1-025U-050D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563862
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-025U-050D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

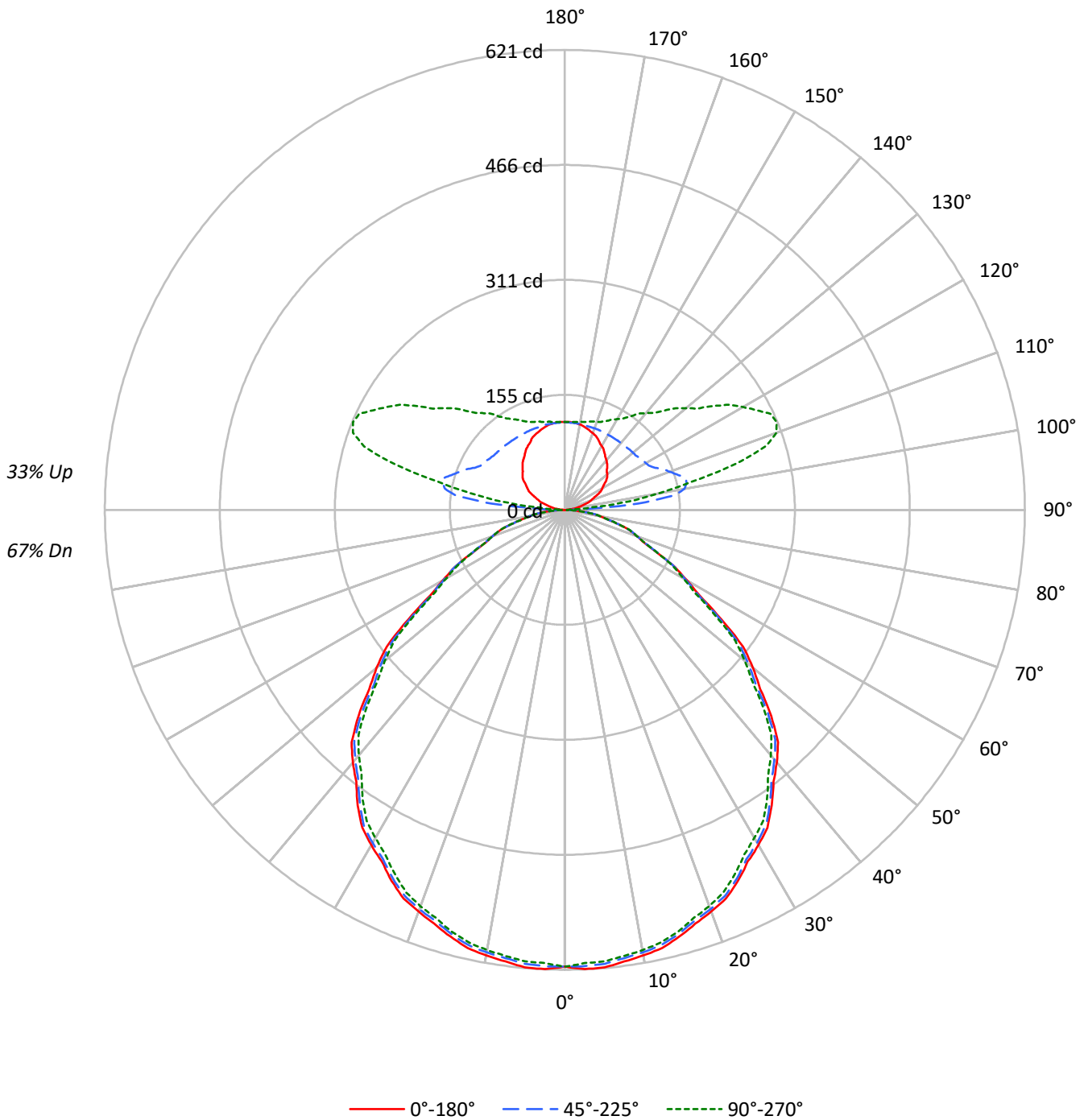
Lumens per Lamp: N/A
Luminaire Lumens: 2311.4 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57
2	93	86	80	74	88	81	76	71	72	68	64	64	61	58	57	54	52	48
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	47	45	41
4	78	67	59	53	73	64	57	51	57	51	47	51	47	43	45	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	62	52	44	39	46	40	36	42	37	33	37	33	30	28
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	24
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	35	30	25	32	27	24	29	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5691	5691	5691
5°	5742	5698	5669
10°	5724	5684	5655
15°	5699	5663	5633
20°	5670	5634	5593
25°	5631	5593	5528
30°	5570	5530	5450
35°	5487	5439	5361
40°	5362	5304	5209
45°	5143	5053	4949
50°	4758	4645	4553
55°	4153	4060	3975
60°	3500	3471	3403
65°	3028	3039	3015
70°	2781	2795	2795
75°	2670	2670	2688
80°	2513	2540	2513
85°	2022	2255	2255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	2.5
10°-20°	166.9	7.2
20°-30°	251.7	10.9
30°-40°	299.9	13.0
40°-50°	295.7	12.8
50°-60°	226.0	9.8
60°-70°	139.9	6.1
70°-80°	79.4	3.4
80°-90°	24.8	1.1
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°	477.0	20.6
0°-40°	776.9	33.6
0°-60°	1298.6	56.2
0°-90°	1542.7	66.7
90°-120°	367.3	15.9
90°-150°	669.0	28.9
90°-180°	769.0	33.3
0°-180°	2311.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	620	613	615	613	612	59
15°	597	590	593	591	590	168
25°	553	546	549	544	543	255
35°	487	482	483	477	476	304
45°	394	389	387	380	379	302
55°	258	254	252	248	247	231
65°	139	138	139	138	138	140
75°	75	75	75	75	75	79
85°	19	20	21	21	21	22
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	

TEST NUMBER: P563862

CATALOG NUMBER: SQ4-PR1-025U-050D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	616.8	616.8	616.8	616.8	616.8
2.5°	620.7	615.3	616.8	615.5	612.6
5°	620.0	613.3	615.2	613.1	612.1
7.5°	615.2	608.6	610.6	608.4	607.8
10°	611.0	604.8	606.7	604.6	603.6
12.5°	606.3	599.7	602.1	599.5	598.5
15°	596.6	590.4	592.9	590.8	589.7
17.5°	586.0	579.4	581.9	579.4	578.1
20°	577.5	571.3	573.8	570.1	569.6
22.5°	568.2	561.9	564.5	559.5	559.3
25°	553.1	546.3	549.4	543.5	543.0
27.5°	535.1	528.9	531.4	525.4	524.8
30°	522.8	516.6	519.1	512.7	511.6
32.5°	508.8	503.0	505.1	498.7	498.0
35°	487.2	481.5	482.9	476.6	476.0
37.5°	462.7	457.5	458.3	451.3	450.8
40°	445.2	440.0	440.4	433.0	432.5
42.5°	426.1	420.9	420.5	413.0	412.5
45°	394.2	389.0	387.3	380.4	379.3
47.5°	357.9	352.7	349.5	343.8	343.1
50°	331.5	326.3	323.6	318.7	317.2
52.5°	303.1	297.9	295.5	291.1	289.6
55°	258.2	254.1	252.4	248.1	247.1
57.5°	215.6	212.8	212.3	208.2	207.7
60°	189.7	188.1	188.1	184.4	184.4
62.5°	167.6	166.4	167.3	164.8	164.4
65°	138.7	137.6	139.2	138.1	138.1
67.5°	115.8	115.8	116.8	116.4	116.4
70°	103.1	103.1	103.6	103.6	103.6
72.5°	91.6	91.2	92.6	92.5	92.1
75°	74.9	74.9	74.9	75.4	75.4
77.5°	58.3	58.4	58.9	58.8	58.3
80°	47.3	47.8	47.8	47.3	47.3
82.5°	36.2	36.8	36.8	36.7	36.2
85°	19.1	20.2	21.3	21.3	21.3
87.5°	5.7	7.6	9.7	9.1	8.7
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: P563862

CATALOG NUMBER: SQ4-PR1-025U-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)