

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: P562618

Luminaire Tested: **SQ4-PC3-050U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562618
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-050U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

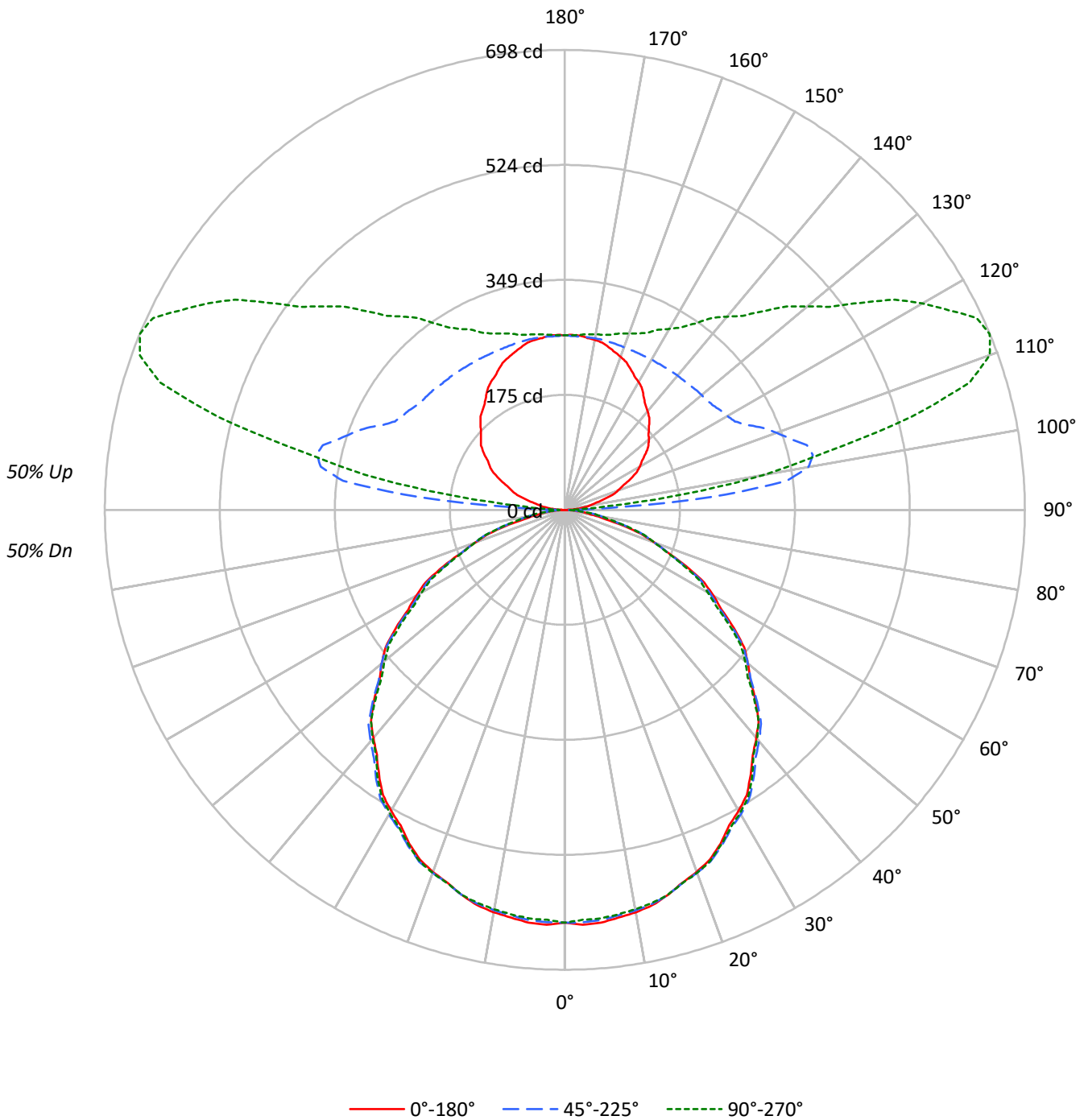
Lumens per Lamp: N/A
Luminaire Lumens: 3441.7 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 28.5
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	39	36	34	30
4	74	63	56	49	68	59	52	46	50	45	41	42	38	35	34	32	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5780	5780	5780
5°	5825	5787	5765
10°	5810	5783	5766
15°	5780	5780	5774
20°	5742	5758	5758
25°	5688	5728	5711
30°	5618	5686	5661
35°	5535	5619	5580
40°	5443	5520	5464
45°	5344	5382	5299
50°	5205	5205	5121
55°	5040	4974	4900
60°	4796	4700	4624
65°	4432	4344	4305
70°	3882	3911	3898
75°	3123	3454	3476
80°	2221	2928	2959
85°	1355	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	1.7
10°-20°	170.2	4.9
20°-30°	257.7	7.5
30°-40°	308.9	9.0
40°-50°	315.0	9.2
50°-60°	275.0	8.0
60°-70°	196.9	5.7
70°-80°	101.4	2.9
80°-90°	26.7	0.8
90°-100°	127.2	3.7
100°-110°	345.7	10.0
110°-120°	355.4	10.3
120°-130°	284.2	8.3
130°-140°	223.3	6.5
140°-150°	171.2	5.0
150°-160°	123.1	3.6
160°-170°	75.3	2.2
170°-180°	25.4	0.7
0°-30°	487.1	14.2
0°-40°	796.1	23.1
0°-60°	1386.1	40.3
0°-90°	1711.0	49.7
90°-120°	828.3	24.1
90°-150°	1507.0	43.8
90°-180°	1731.0	50.3
0°-180°	3441.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	629	623	625	623	622	60
15°	605	600	605	605	604	171
25°	559	555	563	561	561	257
35°	491	490	499	495	495	307
45°	410	408	412	407	406	315
55°	313	309	309	305	305	279
65°	203	198	199	197	197	201
75°	88	92	97	98	98	95
85°	13	20	23	24	23	17
90°	1	3	6	8	8	2
95°	19	70	222	96	65	20
105°	61	96	380	579	545	65
115°	109	132	304	605	690	108
125°	150	171	275	464	547	134
135°	181	201	268	378	426	140
145°	209	224	264	321	345	131
155°	236	244	262	288	297	109
165°	256	259	263	274	275	72
175°	265	266	264	268	267	25
180°	265	265	265	265	265	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	626.5	626.5	626.5	626.5	626.5
2.5°	630.3	624.8	626.5	625.1	622.8
5°	628.9	622.6	624.8	623.0	622.5
7.5°	624.3	618.1	621.0	619.8	619.2
10°	620.2	613.9	617.3	616.1	615.5
12.5°	614.6	608.8	612.6	611.5	611.3
15°	605.1	600.0	605.1	605.1	604.5
17.5°	593.1	588.5	593.9	594.3	593.9
20°	584.8	579.7	586.5	585.9	586.5
22.5°	574.6	570.4	577.7	576.2	576.8
25°	558.7	554.7	562.7	561.0	561.0
27.5°	539.9	537.0	545.8	543.9	543.9
30°	527.3	524.5	533.7	531.4	531.4
32.5°	513.4	511.5	520.3	517.5	517.5
35°	491.4	490.2	498.9	495.4	495.4
37.5°	468.6	467.6	475.5	471.3	469.9
40°	451.9	451.4	458.3	453.7	453.7
42.5°	435.2	434.6	440.7	435.1	435.1
45°	409.6	408.4	412.5	407.2	406.1
47.5°	381.6	380.5	383.0	377.3	376.7
50°	362.6	361.4	362.6	357.3	356.8
52.5°	343.1	341.0	341.2	336.0	335.9
55°	313.3	309.3	309.2	304.6	304.6
57.5°	281.7	276.5	277.0	273.0	272.4
60°	259.9	254.2	254.7	251.2	250.6
62.5°	238.5	232.0	233.3	229.4	229.3
65°	203.0	198.5	199.0	197.2	197.2
67.5°	168.9	164.7	167.8	166.4	166.3
70°	143.9	141.0	145.0	145.0	144.5
72.5°	120.7	120.6	125.5	125.5	125.9
75°	87.6	91.6	96.9	97.5	97.5
77.5°	58.5	65.5	71.4	71.6	71.5
80°	41.8	49.7	55.1	56.3	55.7
82.5°	28.3	36.7	41.2	42.3	41.8
85°	12.8	19.6	23.2	23.8	23.2
87.5°	3.9	8.5	10.5	10.8	9.9
90°	0.9	3.4	6.0	7.7	7.7
92.5°	7.7	34.8	60.5	26.0	22.0
95°	18.8	69.6	221.6	96.4	64.8
97.5°	31.0	76.9	339.7	264.3	185.6
100°	39.2	81.7	375.9	381.0	307.7
102.5°	47.4	86.6	385.4	471.2	406.6
105°	61.4	95.5	380.1	578.8	544.6
107.5°	75.9	106.0	358.2	634.4	643.9
110°	86.1	113.6	341.8	645.3	686.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.0	121.1	325.4	636.2	697.7
115°	109.1	132.4	304.3	605.4	689.5
117.5°	122.4	144.7	290.8	561.6	656.5
120°	131.3	152.9	284.7	532.3	626.5
122.5°	138.8	160.4	280.6	502.9	593.7
125°	150.0	170.8	275.3	463.9	547.2
127.5°	160.1	180.7	272.4	434.3	505.8
130°	166.2	186.2	271.0	415.7	479.9
132.5°	172.3	192.3	269.7	399.8	456.7
135°	180.7	200.7	267.6	377.8	426.2
137.5°	189.7	207.9	266.6	358.4	399.1
140°	195.2	212.7	265.9	346.0	382.7
142.5°	200.6	216.8	265.2	336.3	367.0
145°	208.8	223.8	264.2	321.0	345.2
147.5°	218.0	230.9	263.4	309.0	328.0
150°	224.2	235.0	263.4	302.1	317.1
152.5°	228.9	238.4	262.7	295.9	308.2
155°	236.1	244.4	262.5	288.3	296.6
157.5°	243.1	249.6	262.5	283.1	289.5
160°	247.2	253.0	262.5	279.7	284.7
162.5°	251.3	255.8	263.2	276.9	280.6
165°	255.7	259.0	263.4	274.5	275.3
167.5°	260.3	262.0	264.2	271.6	272.2
170°	261.7	263.3	264.2	270.2	270.2
172.5°	263.0	264.0	264.2	268.8	268.8
175°	265.1	265.9	264.2	267.6	266.8
177.5°	265.8	265.8	263.7	266.4	265.1
180°	265.1	265.1	265.1	265.1	265.1

(END OF REPORT)