

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: P562622

Luminaire Tested: **SQ4-PC3-050U-050D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562622
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

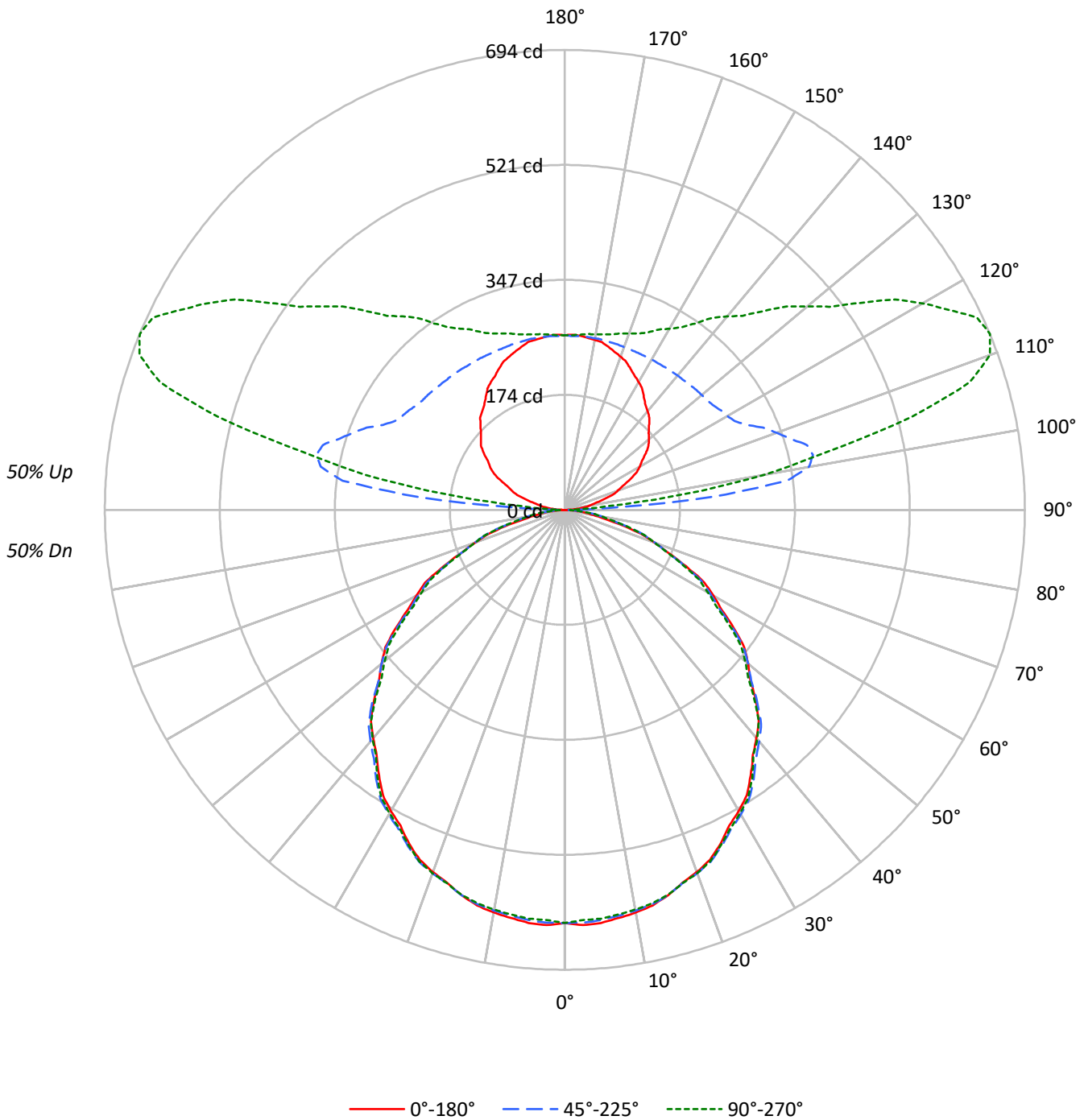
Lumens per Lamp: N/A
Luminaire Lumens: 3424.2 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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°	5752	5752	5752
5°	5795	5757	5736
10°	5780	5753	5737
15°	5750	5750	5744
20°	5712	5729	5729
25°	5658	5700	5681
30°	5590	5657	5633
35°	5507	5591	5552
40°	5415	5492	5437
45°	5317	5355	5271
50°	5177	5177	5095
55°	5014	4948	4874
60°	4772	4676	4600
65°	4410	4323	4283
70°	3860	3893	3876
75°	3108	3436	3458
80°	2210	2912	2943
85°	1344	2445	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	1.7
10°-20°	169.3	4.9
20°-30°	256.4	7.5
30°-40°	307.4	9.0
40°-50°	313.4	9.2
50°-60°	273.6	8.0
60°-70°	195.8	5.7
70°-80°	100.9	2.9
80°-90°	26.5	0.8
90°-100°	126.6	3.7
100°-110°	343.9	10.0
110°-120°	353.6	10.3
120°-130°	282.7	8.3
130°-140°	222.2	6.5
140°-150°	170.3	5.0
150°-160°	122.5	3.6
160°-170°	74.9	2.2
170°-180°	25.2	0.7
0°-30°	484.7	14.2
0°-40°	792.0	23.1
0°-60°	1379.0	40.3
0°-90°	1702.3	49.7
90°-120°	824.1	24.1
90°-150°	1499.3	43.8
90°-180°	1722.0	50.3
0°-180°	3424.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	623	623	623	623	623	
5°	626	620	622	620	619	59
15°	602	597	602	602	601	170
25°	556	552	560	558	558	256
35°	489	488	496	493	493	306
45°	408	406	410	405	404	314
55°	312	308	308	303	303	278
65°	202	198	198	196	196	200
75°	87	91	96	97	97	94
85°	13	20	23	24	23	17
90°	1	3	6	8	8	2
95°	19	69	220	96	64	20
105°	61	95	378	576	542	65
115°	108	132	303	602	686	107
125°	149	170	274	462	544	133
135°	180	200	266	376	424	139
145°	208	223	263	319	343	130
155°	235	243	261	287	295	108
165°	254	258	262	273	274	72
175°	264	265	263	266	265	25
180°	264	264	264	264	264	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	623.4	623.4	623.4	623.4	623.4
2.5°	627.1	621.6	623.4	621.9	619.7
5°	625.7	619.5	621.6	619.9	619.3
7.5°	621.2	615.0	617.8	616.7	616.1
10°	617.0	610.8	614.1	613.0	612.4
12.5°	611.5	605.7	609.5	608.3	608.2
15°	602.0	596.9	602.0	602.0	601.4
17.5°	590.1	585.5	590.9	591.3	590.9
20°	581.8	576.7	583.5	583.0	583.5
22.5°	571.6	567.5	574.8	573.3	573.8
25°	555.8	551.9	559.9	558.1	558.1
27.5°	537.1	534.3	543.0	541.2	541.2
30°	524.7	521.8	531.0	528.7	528.7
32.5°	510.8	508.9	517.6	514.8	514.8
35°	488.9	487.7	496.4	492.9	492.9
37.5°	466.2	465.2	473.1	468.9	467.5
40°	449.6	449.1	456.0	451.4	451.4
42.5°	433.0	432.4	438.4	432.9	432.9
45°	407.5	406.4	410.4	405.2	404.0
47.5°	379.7	378.5	381.1	375.4	374.8
50°	360.7	359.6	360.7	355.5	355.0
52.5°	341.3	339.3	339.5	334.3	334.2
55°	311.7	307.7	307.6	303.0	303.0
57.5°	280.3	275.1	275.5	271.6	271.0
60°	258.6	252.9	253.4	249.9	249.3
62.5°	237.3	230.8	232.1	228.2	228.1
65°	202.0	197.5	198.0	196.2	196.2
67.5°	168.1	163.9	166.9	165.5	165.4
70°	143.1	140.3	144.3	144.3	143.7
72.5°	120.1	119.9	124.9	124.9	125.2
75°	87.2	91.1	96.4	97.0	97.0
77.5°	58.2	65.2	71.0	71.2	71.1
80°	41.6	49.5	54.8	56.0	55.4
82.5°	28.2	36.5	41.0	42.1	41.6
85°	12.7	19.5	23.1	23.7	23.1
87.5°	3.9	8.4	10.4	10.7	9.8
90°	0.8	3.3	5.9	7.6	7.6
92.5°	7.6	34.7	60.2	25.9	21.9
95°	18.7	69.2	220.5	96.0	64.4
97.5°	30.9	76.5	338.0	263.0	184.7
100°	39.0	81.3	374.0	379.1	306.1
102.5°	47.1	86.1	383.5	468.8	404.5
105°	61.1	95.1	378.2	575.9	541.9
107.5°	75.5	105.5	356.3	631.1	640.6
110°	85.6	113.0	340.1	642.0	682.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.5	120.5	323.8	633.0	694.2
115°	108.5	131.8	302.7	602.3	686.0
117.5°	121.8	144.0	289.3	558.8	653.1
120°	130.6	152.2	283.2	529.6	623.3
122.5°	138.1	159.6	279.2	500.3	590.7
125°	149.2	170.0	273.9	461.5	544.4
127.5°	159.3	179.8	271.0	432.1	503.2
130°	165.4	185.3	269.7	413.6	477.4
132.5°	171.5	191.4	268.3	397.8	454.4
135°	179.8	199.7	266.3	375.9	424.0
137.5°	188.8	206.8	265.3	356.6	397.0
140°	194.2	211.6	264.6	344.3	380.8
142.5°	199.6	215.7	263.9	334.6	365.2
145°	207.8	222.7	262.9	319.4	343.4
147.5°	216.9	229.7	262.0	307.4	326.3
150°	223.0	233.8	262.0	300.5	315.5
152.5°	227.8	237.2	261.4	294.4	306.6
155°	234.9	243.2	261.2	286.8	295.1
157.5°	241.9	248.3	261.2	281.7	288.0
160°	245.9	251.7	261.2	278.3	283.2
162.5°	250.0	254.5	261.9	275.5	279.2
165°	254.4	257.7	262.0	273.1	273.9
167.5°	259.0	260.6	262.9	270.2	270.9
170°	260.3	262.0	262.9	268.8	268.8
172.5°	261.7	262.7	262.9	267.5	267.5
175°	263.7	264.6	262.9	266.3	265.4
177.5°	264.4	264.4	262.4	265.1	263.7
180°	263.7	263.7	263.7	263.7	263.7

(END OF REPORT)