

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: P562510

Luminaire Tested: **SQ4-PC3-025U-050D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562510
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-050D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2934.7 lumens
Efficiency: N/A
Efficacy: 132.8 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: 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	72	72	72	67
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	64	62	61	57
2	93	85	79	73	87	80	75	70	72	67	63	63	60	57	56	54	51	47
3	85	75	67	61	79	71	64	59	63	58	53	56	52	48	50	46	44	40
4	77	66	58	52	73	63	55	50	56	50	45	50	45	41	44	41	38	34
5	71	59	51	44	67	56	48	43	50	44	39	45	40	36	40	36	33	30
6	65	53	45	39	61	50	43	37	45	39	34	41	35	31	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	26	23
8	56	44	36	30	53	41	34	29	38	31	27	34	29	25	30	26	23	21
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21	19
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6653	6653	6653
5°	6703	6660	6635
10°	6686	6655	6637
15°	6652	6652	6645
20°	6608	6627	6627
25°	6546	6593	6572
30°	6466	6544	6516
35°	6369	6467	6422
40°	6264	6353	6288
45°	6151	6194	6099
50°	5990	5990	5894
55°	5799	5725	5638
60°	5519	5408	5322
65°	5102	4999	4956
70°	4467	4502	4483
75°	3593	3975	4000
80°	2556	3369	3406
85°	1556	2826	2826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	2.3
10°-20°	195.8	6.7
20°-30°	296.6	10.1
30°-40°	355.6	12.1
40°-50°	362.5	12.4
50°-60°	316.5	10.8
60°-70°	226.6	7.7
70°-80°	116.7	4.0
80°-90°	30.3	1.0
90°-100°	72.6	2.5
100°-110°	190.9	6.5
110°-120°	198.0	6.7
120°-130°	158.8	5.4
130°-140°	124.6	4.2
140°-150°	95.6	3.3
150°-160°	68.9	2.3
160°-170°	42.1	1.4
170°-180°	14.2	0.5
0°-30°	560.6	19.1
0°-40°	916.2	31.2
0°-60°	1595.2	54.4
0°-90°	1968.8	67.1
90°-120°	461.6	15.7
90°-150°	840.6	28.6
90°-180°	966.0	32.9
0°-180°	2934.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	721	721	721	721	721	
5°	724	717	719	717	716	69
15°	696	690	696	696	696	196
25°	643	638	648	646	646	296
35°	566	564	574	570	570	354
45°	471	470	475	469	467	363
55°	360	356	356	350	350	321
65°	234	228	229	227	227	231
75°	101	105	112	112	112	109
85°	15	22	27	27	27	20
90°	1	3	8	4	4	1
95°	10	38	125	64	44	11
105°	34	52	211	320	299	36
115°	61	74	169	337	385	60
125°	85	95	154	260	307	75
135°	101	112	149	210	238	78
145°	118	125	147	179	193	74
155°	133	136	147	162	166	61
165°	143	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	721.1	721.1	721.1	721.1	721.1
2.5°	725.4	719.1	721.1	719.4	716.8
5°	723.7	716.6	719.1	717.1	716.4
7.5°	718.5	711.4	714.7	713.3	712.7
10°	713.7	706.6	710.4	709.0	708.4
12.5°	707.3	700.7	705.1	703.7	703.6
15°	696.4	690.5	696.4	696.4	695.7
17.5°	682.6	677.3	683.6	683.9	683.6
20°	673.0	667.1	675.0	674.4	675.0
22.5°	661.3	656.4	664.9	663.1	663.8
25°	643.0	638.4	647.6	645.6	645.6
27.5°	621.3	618.1	628.1	626.0	626.0
30°	606.9	603.6	614.3	611.6	611.6
32.5°	590.9	588.7	598.8	595.6	595.6
35°	565.5	564.2	574.2	570.2	570.2
37.5°	539.3	538.2	547.2	542.4	540.8
40°	520.1	519.5	527.5	522.1	522.1
42.5°	500.9	500.2	507.2	500.7	500.7
45°	471.4	470.1	474.7	468.7	467.4
47.5°	439.2	437.9	440.8	434.2	433.6
50°	417.3	416.0	417.3	411.3	410.6
52.5°	394.9	392.5	392.7	386.7	386.6
55°	360.5	356.0	355.9	350.5	350.5
57.5°	324.2	318.2	318.7	314.2	313.5
60°	299.1	292.6	293.1	289.1	288.4
62.5°	274.5	267.0	268.5	264.0	263.9
65°	233.7	228.5	229.0	227.0	227.0
67.5°	194.4	189.6	193.1	191.5	191.4
70°	165.6	162.3	166.9	166.9	166.2
72.5°	138.9	138.7	144.5	144.5	144.9
75°	100.8	105.4	111.5	112.2	112.2
77.5°	67.3	75.4	82.1	82.4	82.3
80°	48.1	57.2	63.4	64.7	64.1
82.5°	32.6	42.2	47.4	48.7	48.1
85°	14.7	22.5	26.7	27.4	26.7
87.5°	4.5	9.5	12.2	11.4	10.4
90°	1.0	2.8	7.6	3.8	3.8
92.5°	4.0	19.3	42.8	19.0	12.2
95°	9.6	37.6	125.1	64.5	43.9
97.5°	16.6	41.3	187.2	148.9	109.7
100°	22.0	44.4	206.3	209.1	162.4
102.5°	26.6	47.5	211.7	260.5	220.5
105°	34.4	52.1	211.1	320.5	299.0
107.5°	42.4	58.9	199.1	351.7	356.9
110°	47.8	62.7	189.1	359.7	382.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	67.3	180.0	354.6	389.0
115°	61.1	74.2	169.1	337.3	385.0
117.5°	69.0	80.9	161.6	313.4	366.3
120°	73.6	84.8	158.6	297.3	348.7
122.5°	78.1	89.4	156.3	281.2	331.9
125°	85.0	95.3	153.8	259.9	306.6
127.5°	90.6	101.0	151.7	242.8	282.2
130°	93.6	104.8	150.9	232.0	268.4
132.5°	96.7	107.9	150.2	222.8	255.4
135°	101.3	111.5	149.0	209.8	237.9
137.5°	106.0	116.1	148.8	200.2	223.2
140°	109.9	119.2	148.1	192.5	214.0
142.5°	112.9	121.5	148.1	187.1	205.6
145°	117.5	125.0	147.1	179.0	193.0
147.5°	122.1	129.4	147.1	172.2	183.8
150°	125.1	131.7	147.1	168.3	177.7
152.5°	128.2	133.2	147.1	165.2	172.3
155°	132.8	136.5	147.1	161.5	166.2
157.5°	136.2	139.8	147.1	158.3	161.6
160°	138.5	141.3	147.1	156.7	158.6
162.5°	140.8	142.9	147.1	155.2	157.0
165°	143.3	145.2	147.1	152.9	154.8
167.5°	145.6	146.5	148.1	151.9	152.7
170°	147.1	148.0	148.1	151.9	151.9
172.5°	147.9	148.1	148.1	151.1	150.4
175°	149.0	149.0	148.1	150.0	150.0
177.5°	149.0	149.0	148.3	149.8	149.0
180°	149.0	149.0	149.0	149.0	149.0

(END OF REPORT)