

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: P564639

Luminaire Tested: **SQ4-PW1-050U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564639
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PW1-050U-050D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

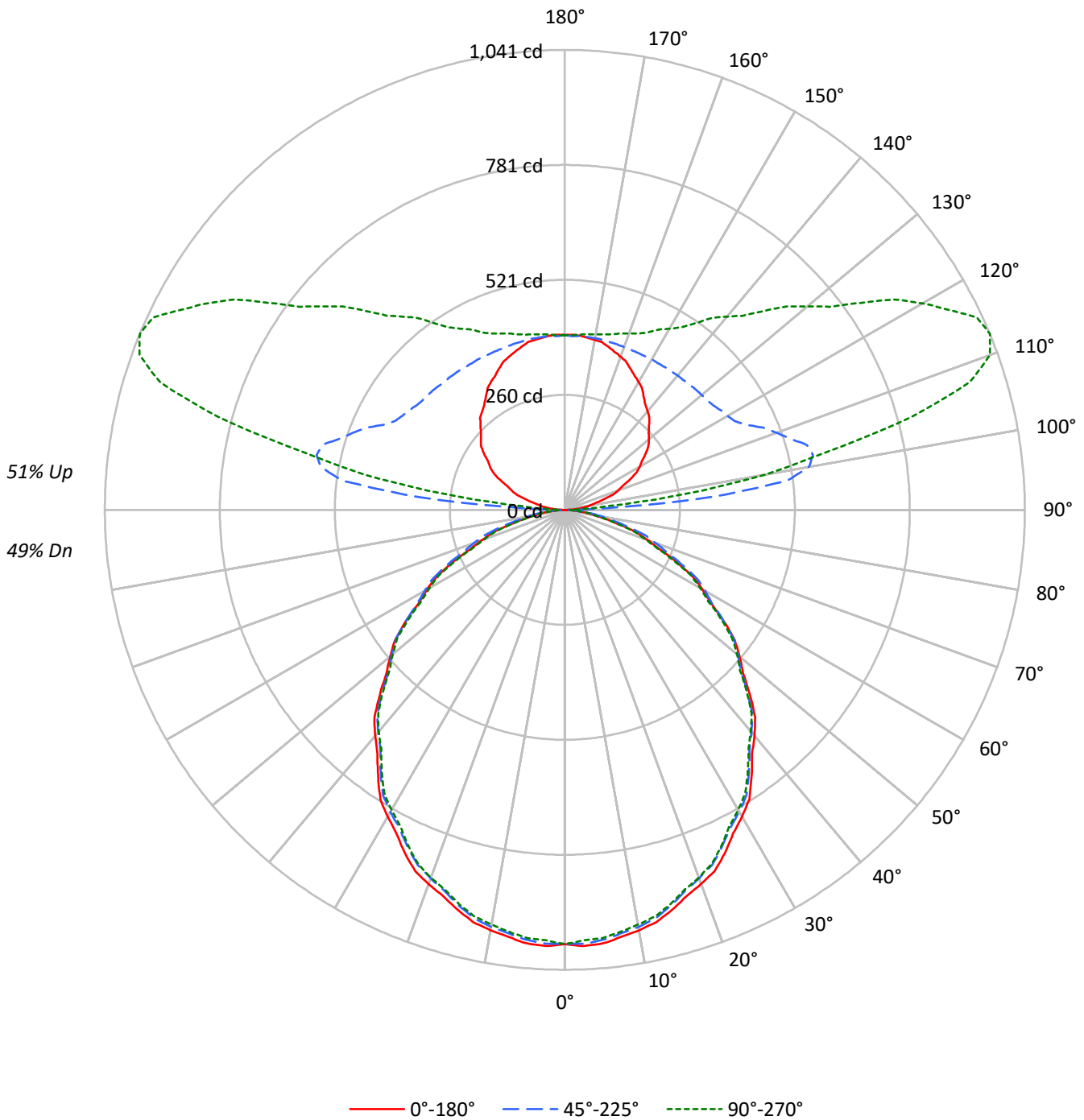
Lumens per Lamp: N/A
Luminaire Lumens: 5084.6 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 44.8
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	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	31	26	46	35	29	24	31	25	21	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6044	6044	6044
5°	6084	6035	6008
10°	6035	5986	5953
15°	5970	5904	5883
20°	5900	5809	5797
25°	5817	5711	5693
30°	5694	5608	5571
35°	5532	5454	5422
40°	5360	5276	5255
45°	5151	5083	5061
50°	4938	4896	4863
55°	4707	4707	4633
60°	4420	4505	4345
65°	4045	4247	3944
70°	3566	3908	3473
75°	3044	3498	2963
80°	2363	2943	2391
85°	1524	2258	2018



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	1.8
10°-20°	261.2	5.1
20°-30°	387.5	7.6
30°-40°	453.4	8.9
40°-50°	451.4	8.9
50°-60°	389.8	7.7
60°-70°	280.6	5.5
70°-80°	147.1	2.9
80°-90°	38.0	0.7
90°-100°	189.9	3.7
100°-110°	515.9	10.1
110°-120°	530.4	10.4
120°-130°	424.1	8.3
130°-140°	333.2	6.6
140°-150°	255.5	5.0
150°-160°	183.7	3.6
160°-170°	112.4	2.2
170°-180°	37.9	0.7
0°-30°	741.3	14.6
0°-40°	1194.7	23.5
0°-60°	2035.9	40.0
0°-90°	2501.6	49.2
90°-120°	1236.2	24.3
90°-150°	2249.0	44.2
90°-180°	2583.0	50.8
0°-180°	5084.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	983	983	983	983	983	
5°	985	974	978	975	973	93
15°	938	926	927	926	924	264
25°	857	843	842	836	839	394
35°	737	727	726	720	722	461
45°	592	587	584	583	582	457
55°	439	438	439	433	432	392
65°	278	286	292	280	271	275
75°	128	140	147	137	125	137
85°	22	28	32	30	29	29
90°	1	5	9	11	11	3
95°	28	104	331	144	97	30
105°	92	143	567	864	813	97
115°	163	198	454	903	1029	161
125°	224	255	411	692	817	200
135°	270	300	399	564	636	209
145°	312	334	394	479	515	196
155°	352	365	392	430	443	162
165°	382	387	393	410	411	108
175°	396	397	394	399	398	38
180°	396	396	396	396	396	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	982.7	982.7	982.7	982.7	982.7
2.5°	988.2	980.1	982.7	980.5	975.7
5°	985.3	974.2	977.5	974.8	973.1
7.5°	975.2	965.1	967.4	964.6	963.6
10°	966.2	956.0	958.4	954.9	953.2
12.5°	955.8	945.0	947.3	943.8	942.8
15°	937.6	925.8	927.2	925.5	923.8
17.5°	916.5	904.5	904.7	902.0	901.6
20°	901.3	888.6	887.4	884.0	885.7
22.5°	884.7	871.3	870.1	865.3	867.7
25°	857.1	842.7	841.5	836.4	838.9
27.5°	825.3	811.0	811.1	803.8	806.6
30°	801.7	788.2	789.6	781.0	784.4
32.5°	776.8	764.6	765.3	756.8	760.2
35°	736.8	726.6	726.4	719.5	722.1
37.5°	695.9	686.9	685.5	681.6	682.2
40°	667.5	659.9	657.1	654.5	654.5
42.5°	637.7	630.8	628.0	626.1	625.4
45°	592.2	587.1	584.4	582.6	581.8
47.5°	547.2	542.4	540.1	538.8	538.0
50°	516.0	512.6	511.7	509.1	508.2
52.5°	484.8	482.8	481.9	478.6	477.7
55°	438.9	438.1	438.9	432.9	432.0
57.5°	391.2	392.5	395.3	387.1	385.1
60°	359.3	362.7	366.2	356.6	353.2
62.5°	326.7	332.2	337.1	326.1	321.4
65°	277.9	286.4	291.8	280.3	271.0
67.5°	230.8	241.3	247.8	235.4	224.9
70°	198.3	210.1	217.3	204.9	193.1
72.5°	169.9	183.1	188.9	177.2	165.4
75°	128.1	140.0	147.2	137.4	124.7
77.5°	90.9	102.1	108.0	99.5	89.0
80°	66.7	78.5	83.1	76.0	67.5
82.5°	47.3	57.1	60.3	56.0	50.2
85°	21.6	28.4	32.0	30.3	28.6
87.5°	5.8	11.3	14.9	15.5	16.1
90°	1.3	5.0	8.9	11.4	11.4
92.5°	11.4	52.0	90.3	38.8	32.8
95°	28.0	103.9	330.7	143.9	96.7
97.5°	46.3	114.7	507.0	394.5	277.0
100°	58.5	121.9	561.0	568.6	459.2
102.5°	70.7	129.2	575.2	703.3	606.8
105°	91.6	142.6	567.3	863.8	812.8
107.5°	113.2	158.2	534.5	946.7	960.9
110°	128.5	169.5	510.1	963.0	1024.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.7	180.8	485.7	949.5	1041.3
115°	162.8	197.6	454.1	903.4	1029.1
117.5°	182.7	216.0	434.0	838.2	979.7
120°	195.9	228.2	424.9	794.4	934.9
122.5°	207.1	239.4	418.7	750.5	886.1
125°	223.9	255.0	410.9	692.3	816.6
127.5°	238.9	269.7	406.5	648.1	754.8
130°	248.0	277.9	404.5	620.4	716.1
132.5°	257.2	287.1	402.5	596.7	681.5
135°	269.7	299.5	399.4	563.9	636.0
137.5°	283.2	310.3	397.9	534.9	595.6
140°	291.3	317.4	396.9	516.4	571.1
142.5°	299.4	323.6	395.9	502.0	547.7
145°	311.6	334.0	394.3	479.1	515.2
147.5°	325.4	344.5	393.1	461.1	489.5
150°	334.5	350.7	393.1	450.8	473.2
152.5°	341.7	355.8	392.0	441.6	460.0
155°	352.3	364.8	391.8	430.2	442.7
157.5°	362.8	372.5	391.8	422.5	432.0
160°	368.9	377.6	391.8	417.4	424.9
162.5°	375.0	381.7	392.8	413.3	418.7
165°	381.6	386.6	393.1	409.6	410.9
167.5°	388.5	391.0	394.3	405.3	406.3
170°	390.5	393.0	394.3	403.2	403.2
172.5°	392.5	394.0	394.3	401.2	401.2
175°	395.6	396.8	394.3	399.4	398.1
177.5°	396.6	396.6	393.6	397.6	395.6
180°	395.6	395.6	395.6	395.6	395.6

(END OF REPORT)