

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: P564622

Luminaire Tested: **SQ4-PW1-050U-050D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564622
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-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

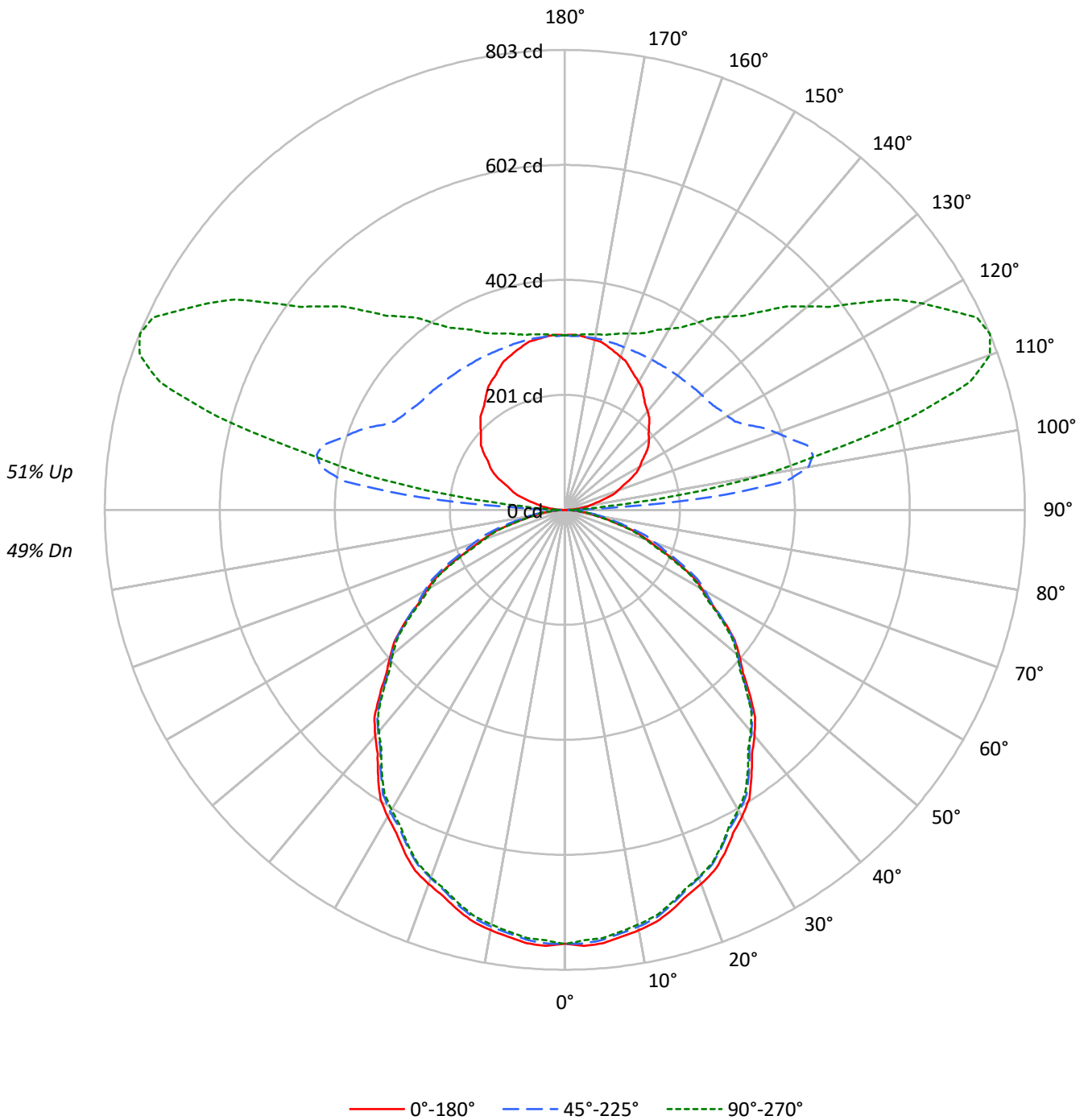
Lumens per Lamp: N/A
Luminaire Lumens: 3921.1 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	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	20
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°	6992	6992	6992
5°	7037	6981	6951
10°	6980	6924	6887
15°	6907	6830	6805
20°	6824	6720	6706
25°	6729	6607	6586
30°	6587	6487	6444
35°	6400	6310	6271
40°	6200	6104	6080
45°	5959	5881	5855
50°	5711	5664	5625
55°	5445	5445	5360
60°	5113	5211	5026
65°	4678	4912	4563
70°	4125	4521	4017
75°	3522	4046	3426
80°	2731	3406	2768
85°	1768	2615	2329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	1.8
10°-20°	201.5	5.1
20°-30°	298.8	7.6
30°-40°	349.7	8.9
40°-50°	348.1	8.9
50°-60°	300.6	7.7
60°-70°	216.4	5.5
70°-80°	113.5	2.9
80°-90°	29.3	0.7
90°-100°	146.4	3.7
100°-110°	397.8	10.1
110°-120°	409.0	10.4
120°-130°	327.0	8.3
130°-140°	257.0	6.6
140°-150°	197.0	5.0
150°-160°	141.7	3.6
160°-170°	86.7	2.2
170°-180°	29.2	0.7
0°-30°	571.7	14.6
0°-40°	921.3	23.5
0°-60°	1570.1	40.0
0°-90°	1929.2	49.2
90°-120°	953.3	24.3
90°-150°	1734.4	44.2
90°-180°	1992.0	50.8
0°-180°	3921.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	758	758	758	758	758	
5°	760	751	754	752	750	72
15°	723	714	715	714	712	204
25°	661	650	649	645	647	304
35°	568	560	560	555	557	355
45°	457	453	451	449	449	352
55°	338	338	338	334	333	302
65°	214	221	225	216	209	212
75°	99	108	114	106	96	106
85°	17	22	25	23	22	22
90°	1	4	7	9	9	2
95°	22	80	255	111	75	23
105°	71	110	438	666	627	75
115°	126	152	350	697	794	124
125°	173	197	317	534	630	154
135°	208	231	308	435	490	161
145°	240	258	304	370	397	151
155°	272	281	302	332	341	125
165°	294	298	303	316	317	83
175°	305	306	304	308	307	29
180°	305	305	305	305	305	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	757.8	757.8	757.8	757.8	757.8
2.5°	762.1	755.8	757.8	756.1	752.5
5°	759.8	751.3	753.8	751.8	750.5
7.5°	752.1	744.2	746.1	743.9	743.1
10°	745.1	737.3	739.1	736.4	735.1
12.5°	737.1	728.7	730.6	727.9	727.1
15°	723.1	713.9	715.1	713.7	712.4
17.5°	706.8	697.5	697.7	695.6	695.3
20°	695.0	685.2	684.4	681.7	683.0
22.5°	682.2	671.9	671.0	667.3	669.1
25°	661.0	649.9	649.0	645.0	647.0
27.5°	636.4	625.5	625.5	619.9	622.0
30°	618.3	607.8	608.9	602.3	604.9
32.5°	599.0	589.6	590.2	583.6	586.2
35°	568.2	560.4	560.2	554.9	556.8
37.5°	536.7	529.8	528.7	525.6	526.1
40°	514.8	508.9	506.8	504.8	504.8
42.5°	491.8	486.4	484.3	482.8	482.3
45°	456.7	452.8	450.7	449.3	448.7
47.5°	422.0	418.3	416.5	415.5	414.9
50°	397.9	395.3	394.6	392.6	391.9
52.5°	373.9	372.3	371.6	369.1	368.4
55°	338.5	337.9	338.5	333.8	333.2
57.5°	301.7	302.7	304.9	298.5	297.0
60°	277.1	279.7	282.4	275.0	272.4
62.5°	252.0	256.2	260.0	251.5	247.8
65°	214.3	220.8	225.0	216.2	209.0
67.5°	178.0	186.1	191.1	181.6	173.5
70°	152.9	162.0	167.6	158.0	148.9
72.5°	131.0	141.2	145.7	136.7	127.5
75°	98.8	108.0	113.5	105.9	96.1
77.5°	70.1	78.7	83.3	76.7	68.6
80°	51.4	60.5	64.1	58.6	52.1
82.5°	36.5	44.0	46.5	43.2	38.7
85°	16.7	21.9	24.7	23.3	22.0
87.5°	4.5	8.7	11.5	11.9	12.4
90°	1.0	3.9	6.9	8.8	8.8
92.5°	8.8	40.1	69.6	29.9	25.3
95°	21.6	80.1	255.0	111.0	74.6
97.5°	35.7	88.5	391.0	304.2	213.7
100°	45.1	94.0	432.6	438.5	354.1
102.5°	54.5	99.6	443.6	542.3	467.9
105°	70.6	110.0	437.5	666.1	626.8
107.5°	87.3	122.0	412.2	730.1	741.0
110°	99.1	130.7	393.4	742.7	789.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109.3	139.4	374.5	732.2	803.0
115°	125.6	152.4	350.2	696.7	793.6
117.5°	140.9	166.6	334.7	646.4	755.5
120°	151.1	176.0	327.6	612.6	721.0
122.5°	159.7	184.6	322.9	578.8	683.3
125°	172.6	196.6	316.8	533.9	629.8
127.5°	184.2	208.0	313.5	499.8	582.1
130°	191.3	214.3	311.9	478.4	552.3
132.5°	198.3	221.4	310.4	460.2	525.6
135°	208.0	231.0	308.0	434.8	490.5
137.5°	218.4	239.3	306.8	412.5	459.3
140°	224.6	244.8	306.1	398.2	440.4
142.5°	230.9	249.5	305.3	387.1	422.4
145°	240.3	257.6	304.1	369.5	397.3
147.5°	250.9	265.7	303.1	355.6	377.5
150°	258.0	270.5	303.1	347.6	364.9
152.5°	263.5	274.4	302.3	340.5	354.7
155°	271.7	281.3	302.1	331.8	341.4
157.5°	279.8	287.2	302.1	325.8	333.1
160°	284.5	291.2	302.1	321.9	327.6
162.5°	289.2	294.4	302.9	318.7	322.9
165°	294.3	298.1	303.1	315.9	316.8
167.5°	299.6	301.5	304.1	312.5	313.3
170°	301.2	303.1	304.1	311.0	311.0
172.5°	302.7	303.9	304.1	309.4	309.4
175°	305.1	306.0	304.1	308.0	307.0
177.5°	305.9	305.9	303.5	306.6	305.1
180°	305.1	305.1	305.1	305.1	305.1

(END OF REPORT)