

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: P564634

Luminaire Tested: **SQ4-PW1-050U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564634
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-935-1D-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

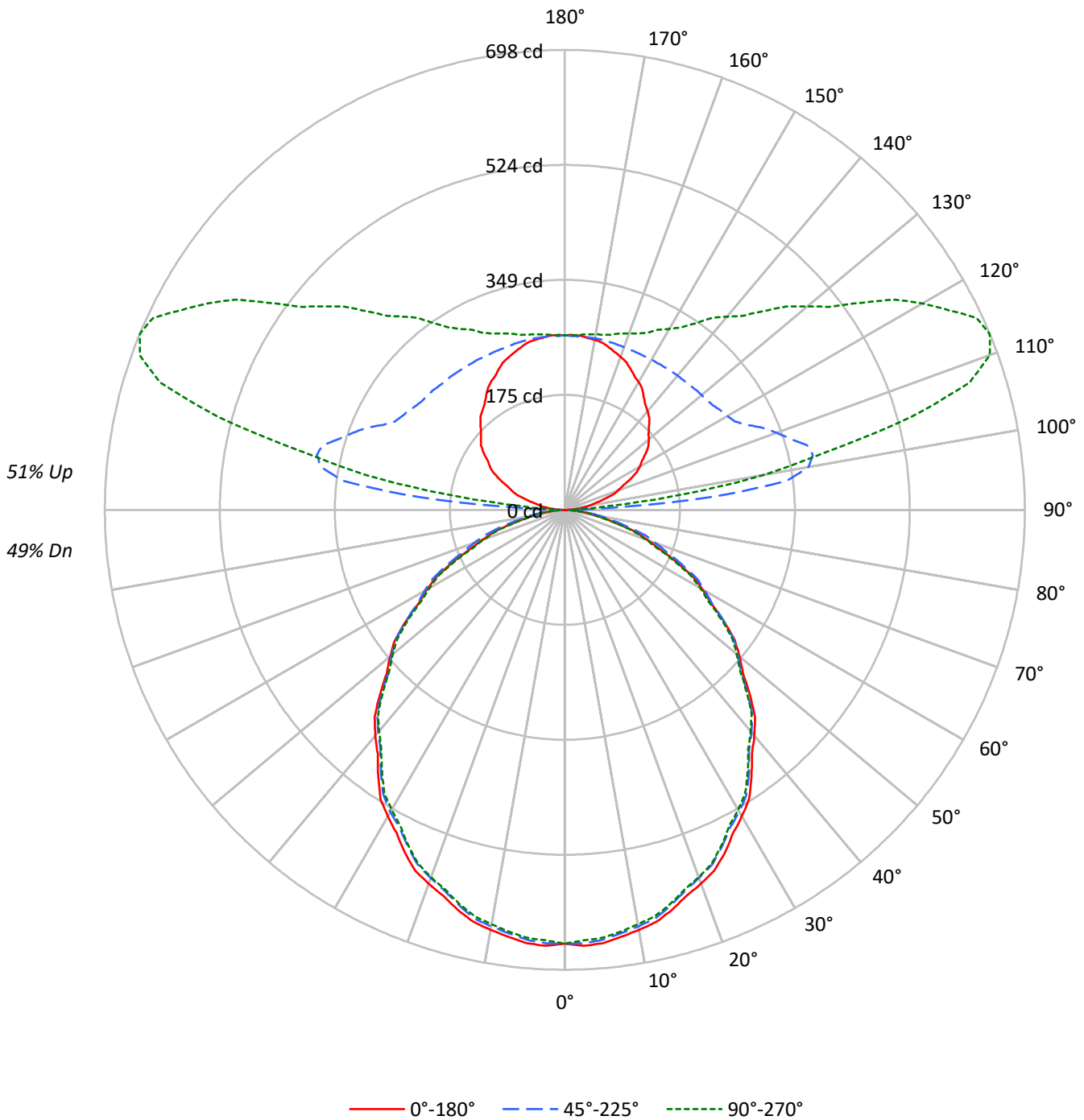
Lumens per Lamp: N/A
Luminaire Lumens: 3407.0 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	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°	6075	6075	6075
5°	6114	6066	6039
10°	6065	6016	5984
15°	6001	5934	5912
20°	5929	5838	5827
25°	5846	5740	5722
30°	5723	5637	5599
35°	5561	5482	5449
40°	5387	5303	5282
45°	5177	5110	5086
50°	4963	4922	4887
55°	4731	4731	4657
60°	4443	4528	4368
65°	4065	4268	3965
70°	3582	3928	3491
75°	3062	3515	2977
80°	2375	2959	2407
85°	1535	2276	2022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	1.8
10°-20°	175.0	5.1
20°-30°	259.7	7.6
30°-40°	303.8	8.9
40°-50°	302.5	8.9
50°-60°	261.2	7.7
60°-70°	188.0	5.5
70°-80°	98.6	2.9
80°-90°	25.5	0.7
90°-100°	127.2	3.7
100°-110°	345.7	10.1
110°-120°	355.4	10.4
120°-130°	284.2	8.3
130°-140°	223.3	6.6
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°	496.7	14.6
0°-40°	800.5	23.5
0°-60°	1364.2	40.0
0°-90°	1676.3	49.2
90°-120°	828.3	24.3
90°-150°	1507.0	44.2
90°-180°	1731.0	50.8
0°-180°	3407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	660	653	655	653	652	63
15°	628	620	621	620	619	177
25°	574	565	564	560	562	264
35°	494	487	487	482	484	309
45°	397	393	392	390	390	306
55°	294	294	294	290	290	262
65°	186	192	196	188	182	185
75°	86	94	99	92	84	92
85°	14	19	22	20	19	19
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°	658.4	658.4	658.4	658.4	658.4
2.5°	662.2	656.7	658.4	657.0	653.8
5°	660.2	652.8	655.0	653.2	652.1
7.5°	653.5	646.7	648.2	646.4	645.7
10°	647.4	640.6	642.2	639.9	638.7
12.5°	640.5	633.2	634.8	632.4	631.8
15°	628.3	620.3	621.3	620.1	619.0
17.5°	614.1	606.1	606.2	604.4	604.1
20°	603.9	595.4	594.6	592.3	593.5
22.5°	592.8	583.8	583.0	579.8	581.4
25°	574.3	564.7	563.9	560.4	562.1
27.5°	553.0	543.5	543.5	538.6	540.4
30°	537.2	528.1	529.1	523.3	525.6
32.5°	520.5	512.3	512.8	507.1	509.4
35°	493.7	486.9	486.7	482.1	483.8
37.5°	466.3	460.3	459.3	456.7	457.1
40°	447.3	442.2	440.3	438.6	438.6
42.5°	427.3	422.7	420.8	419.5	419.1
45°	396.8	393.4	391.6	390.4	389.8
47.5°	366.6	363.5	361.9	361.1	360.5
50°	345.8	343.5	342.9	341.1	340.5
52.5°	324.9	323.5	322.9	320.7	320.1
55°	294.1	293.6	294.1	290.1	289.5
57.5°	262.1	263.0	264.9	259.4	258.0
60°	240.8	243.0	245.4	239.0	236.7
62.5°	218.9	222.6	225.9	218.5	215.3
65°	186.2	191.9	195.5	187.8	181.6
67.5°	154.7	161.7	166.0	157.8	150.7
70°	132.8	140.8	145.6	137.3	129.4
72.5°	113.8	122.7	126.6	118.7	110.8
75°	85.9	93.8	98.6	92.0	83.5
77.5°	60.9	68.4	72.4	66.7	59.6
80°	44.7	52.6	55.7	50.9	45.3
82.5°	31.7	38.3	40.4	37.5	33.6
85°	14.5	19.0	21.5	20.3	19.1
87.5°	3.9	7.6	10.0	10.4	10.8
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)