

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: P564730

Luminaire Tested: **SQ4-PW1-075U-050D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564730
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PW1-075U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

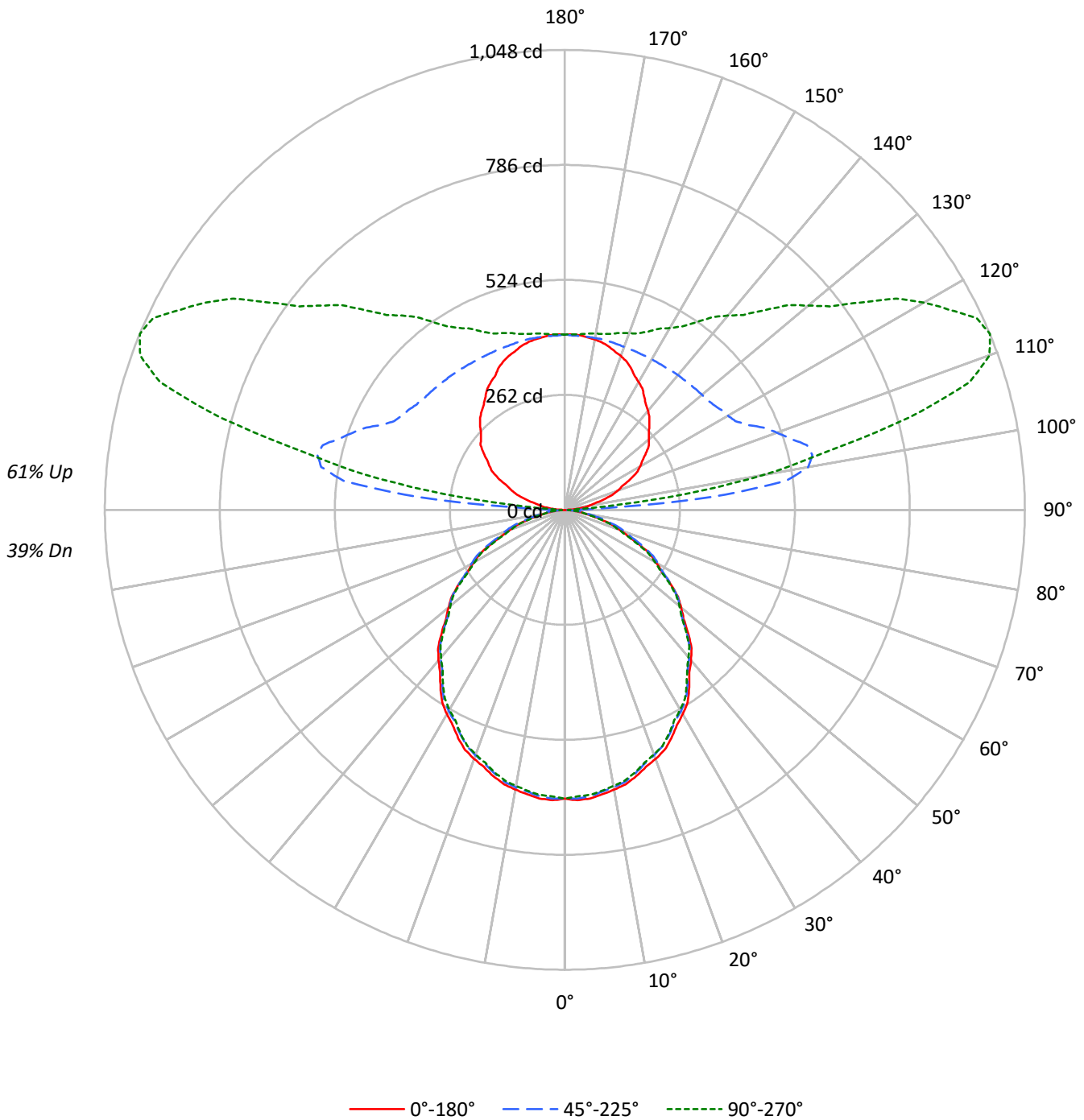
Lumens per Lamp: N/A
Luminaire Lumens: 4277.5 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 34.7
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	39	36	32	30	28	24
4	73	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	41	60	50	44	38	42	36	32	33	30	27	26	23	21	18
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10

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	1.4
10°-20°	175.0	4.1
20°-30°	259.7	6.1
30°-40°	303.8	7.1
40°-50°	302.5	7.1
50°-60°	261.2	6.1
60°-70°	188.0	4.4
70°-80°	98.6	2.3
80°-90°	25.5	0.6
90°-100°	188.3	4.4
100°-110°	518.1	12.1
110°-120°	534.8	12.5
120°-130°	428.5	10.0
130°-140°	336.5	7.9
140°-150°	257.9	6.0
150°-160°	185.4	4.3
160°-170°	113.4	2.7
170°-180°	38.2	0.9
0°-30°	496.7	11.6
0°-40°	800.5	18.7
0°-60°	1364.2	31.9
0°-90°	1676.3	39.2
90°-120°	1241.3	29.0
90°-150°	2264.2	52.9
90°-180°	2601.0	60.8
0°-180°	4277.5	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°	28	103	333	142	91	30
105°	93	142	571	870	811	98
115°	164	200	458	912	1035	162
125°	226	258	415	703	823	202
135°	273	303	404	568	643	210
145°	315	337	398	484	522	198
155°	357	368	395	435	448	164
165°	386	391	397	413	415	109
175°	399	400	398	403	402	38
180°	399	399	399	399	399	

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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°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	50.1	86.8	33.3	27.4
95°	28.0	102.8	333.0	142.4	90.9
97.5°	45.7	114.0	508.2	391.6	276.3
100°	58.6	120.9	563.3	568.5	463.9
102.5°	70.9	129.2	577.5	705.3	609.3
105°	92.6	142.4	570.9	869.5	811.3
107.5°	113.3	158.9	538.5	949.9	967.2
110°	128.3	169.8	514.0	969.9	1029.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.9	182.1	489.5	957.0	1048.0
115°	164.0	199.7	457.9	911.8	1034.8
117.5°	185.0	217.9	437.9	848.5	987.5
120°	198.0	229.5	429.0	801.0	944.7
122.5°	209.5	241.1	422.9	759.4	895.8
125°	226.0	257.6	415.4	702.8	823.2
127.5°	241.6	271.7	410.5	655.6	761.2
130°	249.8	280.5	407.8	627.5	723.8
132.5°	259.3	290.0	405.8	602.8	689.9
135°	272.7	302.6	403.5	568.4	643.1
137.5°	285.3	313.0	401.7	540.5	602.2
140°	294.8	320.6	401.0	522.1	577.7
142.5°	303.0	326.7	399.6	505.6	553.2
145°	315.2	336.8	397.6	484.3	521.6
147.5°	328.3	346.9	396.6	465.4	495.3
150°	336.4	353.0	395.9	455.1	478.3
152.5°	343.9	359.2	395.2	446.1	465.4
155°	356.8	368.5	395.1	435.3	447.7
157.5°	366.2	375.6	395.1	426.3	435.0
160°	373.0	380.4	395.1	421.5	428.2
162.5°	378.4	384.5	395.7	417.4	422.7
165°	385.7	390.7	396.8	412.9	415.4
167.5°	390.8	394.6	397.6	409.2	409.8
170°	394.2	396.7	397.6	407.8	407.8
172.5°	396.9	398.1	397.6	405.7	405.1
175°	399.3	400.1	397.6	402.7	401.8
177.5°	400.0	400.0	397.3	401.3	400.0
180°	399.3	399.3	399.3	399.3	399.3

(END OF REPORT)