

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: P564714

Luminaire Tested: **SQ4-PW1-075U-050D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564714  
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-830-1D-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: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

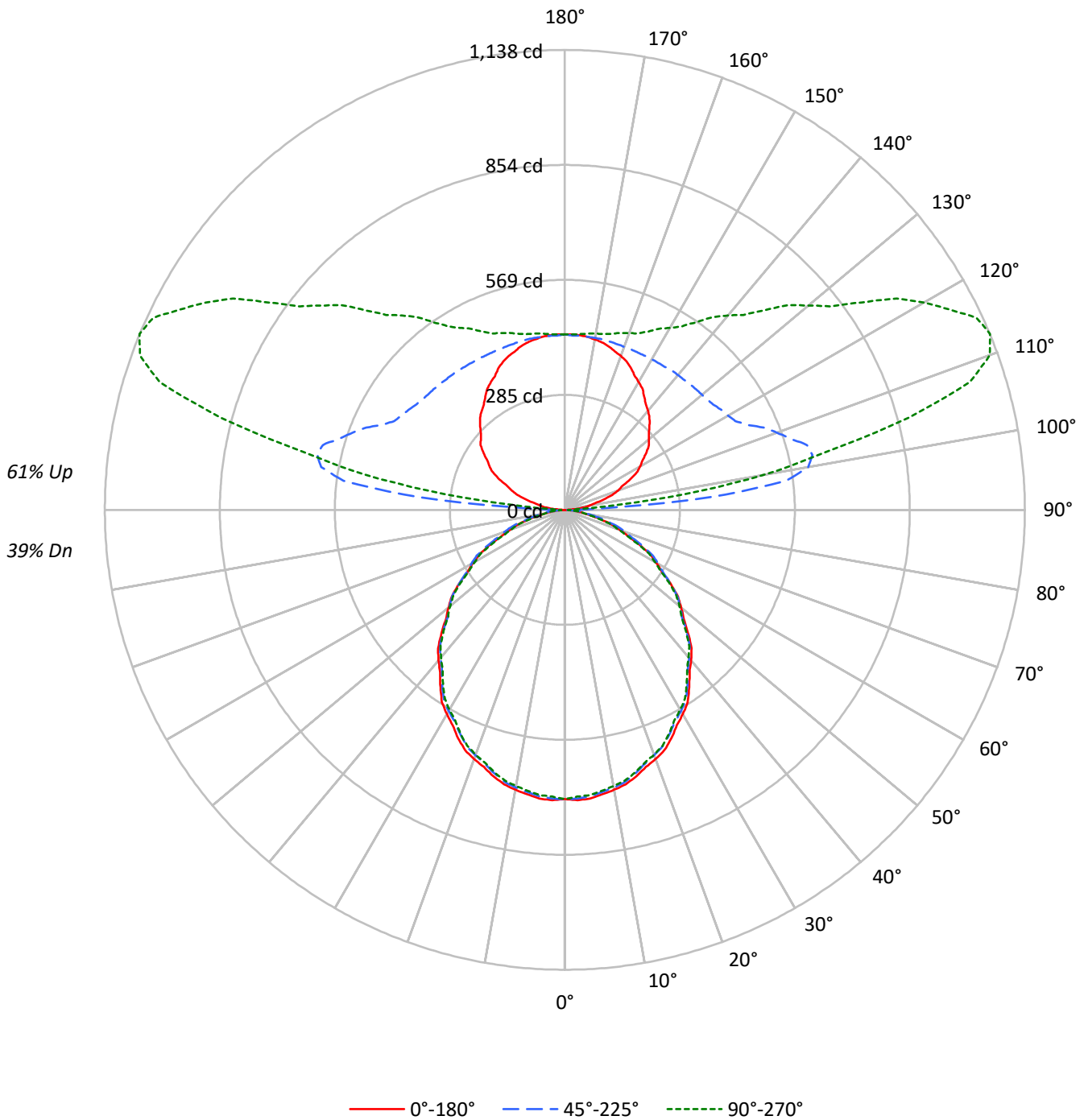
Lumens per Lamp: N/A  
Luminaire Lumens: 4646.8 lumens  
Efficiency: N/A  
Efficacy: 133.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6600	6600	6600
5°	6642	6590	6561
10°	6589	6535	6501
15°	6519	6446	6423
20°	6441	6343	6330
25°	6351	6236	6217
30°	6217	6123	6083
35°	6040	5955	5920
40°	5852	5761	5738
45°	5625	5551	5526
50°	5391	5347	5309
55°	5139	5139	5059
60°	4825	4919	4744
65°	4416	4637	4307
70°	3893	4268	3790
75°	3326	3818	3233
80°	2577	3214	2614
85°	1673	2467	2202



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.4	1.4
10°-20°	190.2	4.1
20°-30°	282.1	6.1
30°-40°	330.0	7.1
40°-50°	328.6	7.1
50°-60°	283.7	6.1
60°-70°	204.3	4.4
70°-80°	107.1	2.3
80°-90°	27.7	0.6
90°-100°	204.6	4.4
100°-110°	562.9	12.1
110°-120°	581.0	12.5
120°-130°	465.5	10.0
130°-140°	365.6	7.9
140°-150°	280.2	6.0
150°-160°	201.4	4.3
160°-170°	123.2	2.7
170°-180°	41.5	0.9
0°-30°	539.6	11.6
0°-40°	869.6	18.7
0°-60°	1482.0	31.9
0°-90°	1821.0	39.2
90°-120°	1348.4	29.0
90°-150°	2459.7	52.9
90°-180°	2826.0	60.8
0°-180°	4646.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	717	709	712	710	708	68
15°	682	674	675	674	672	192
25°	624	613	613	609	611	287
35°	536	529	529	524	526	335
45°	431	427	425	424	424	333
55°	320	319	320	315	314	285
65°	202	208	212	204	197	200
75°	93	102	107	100	91	100
85°	16	21	23	22	21	21
90°	1	4	6	8	8	3
95°	30	112	362	155	99	32
105°	101	155	620	944	881	106
115°	178	217	497	990	1124	176
125°	246	280	451	763	894	219
135°	296	329	438	617	699	229
145°	342	366	432	526	567	215
155°	388	400	429	473	486	178
165°	419	424	431	449	451	118
175°	434	435	432	437	436	41
180°	434	434	434	434	434	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	715.3	715.3	715.3	715.3	715.3
2.5°	719.3	713.4	715.3	713.7	710.2
5°	717.2	709.2	711.5	709.6	708.4
7.5°	709.9	702.5	704.2	702.2	701.4
10°	703.3	695.9	697.6	695.1	693.9
12.5°	695.7	687.9	689.6	687.0	686.3
15°	682.5	673.9	674.9	673.7	672.4
17.5°	667.1	658.4	658.6	656.5	656.3
20°	656.0	646.8	646.0	643.5	644.7
22.5°	643.9	634.2	633.4	629.9	631.6
25°	623.9	613.4	612.6	608.8	610.7
27.5°	600.7	590.4	590.4	585.1	587.1
30°	583.6	573.7	574.7	568.5	571.0
32.5°	565.4	556.5	557.1	550.9	553.3
35°	536.3	528.9	528.7	523.7	525.6
37.5°	506.6	500.0	499.0	496.1	496.6
40°	485.9	480.3	478.3	476.4	476.4
42.5°	464.2	459.2	457.2	455.8	455.3
45°	431.1	427.4	425.4	424.1	423.5
47.5°	398.3	394.8	393.1	392.2	391.6
50°	375.6	373.1	372.5	370.5	369.9
52.5°	352.9	351.4	350.8	348.4	347.7
55°	319.5	318.9	319.5	315.1	314.5
57.5°	284.7	285.7	287.8	281.8	280.3
60°	261.5	264.0	266.6	259.6	257.1
62.5°	237.8	241.8	245.4	237.4	233.9
65°	202.3	208.5	212.4	204.0	197.3
67.5°	168.0	175.7	180.4	171.4	163.7
70°	144.3	152.9	158.2	149.2	140.5
72.5°	123.6	133.3	137.5	129.0	120.4
75°	93.3	101.9	107.1	100.0	90.7
77.5°	66.2	74.3	78.6	72.4	64.8
80°	48.5	57.2	60.5	55.3	49.2
82.5°	34.4	41.6	43.9	40.7	36.6
85°	15.8	20.7	23.3	22.0	20.8
87.5°	4.2	8.2	10.9	11.3	11.7
90°	0.9	3.6	6.5	8.3	8.3
92.5°	12.7	54.4	94.3	36.2	29.7
95°	30.5	111.7	361.8	154.7	98.8
97.5°	49.7	123.8	552.1	425.4	300.1
100°	63.7	131.4	611.9	617.6	503.9
102.5°	77.0	140.3	627.4	766.2	661.9
105°	100.6	154.7	620.2	944.5	881.4
107.5°	123.1	172.6	584.9	1031.9	1050.6
110°	139.4	184.5	558.4	1053.6	1118.6

TEST NUMBER: P564714

CATALOG NUMBER: SQ4-PW1-075U-050D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	154.1	197.8	531.8	1039.6	1138.5
115°	178.1	216.9	497.4	990.5	1124.1
117.5°	201.0	236.7	475.7	921.7	1072.8
120°	215.0	249.3	466.1	870.2	1026.3
122.5°	227.6	261.9	459.4	824.9	973.1
125°	245.5	279.8	451.3	763.4	894.3
127.5°	262.5	295.1	445.9	712.1	826.9
130°	271.3	304.7	443.0	681.6	786.3
132.5°	281.7	315.1	440.8	654.8	749.4
135°	296.3	328.7	438.4	617.4	698.6
137.5°	309.9	340.1	436.3	587.2	654.2
140°	320.2	348.2	435.6	567.1	627.6
142.5°	329.1	354.9	434.1	549.2	601.0
145°	342.4	365.9	431.9	526.1	566.7
147.5°	356.6	376.8	430.8	505.6	538.1
150°	365.5	383.5	430.1	494.3	519.6
152.5°	373.6	390.2	429.3	484.6	505.6
155°	387.6	400.3	429.2	472.8	486.4
157.5°	397.8	408.1	429.2	463.1	472.5
160°	405.2	413.3	429.2	457.9	465.1
162.5°	411.1	417.7	429.9	453.5	459.2
165°	419.0	424.4	431.0	448.6	451.3
167.5°	424.5	428.7	431.9	444.5	445.2
170°	428.2	430.9	431.9	443.0	443.0
172.5°	431.2	432.4	431.9	440.8	440.0
175°	433.8	434.7	431.9	437.4	436.5
177.5°	434.5	434.5	431.6	435.9	434.5
180°	433.8	433.8	433.8	433.8	433.8

(END OF REPORT)