

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: P564658

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

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564658  
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-075D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

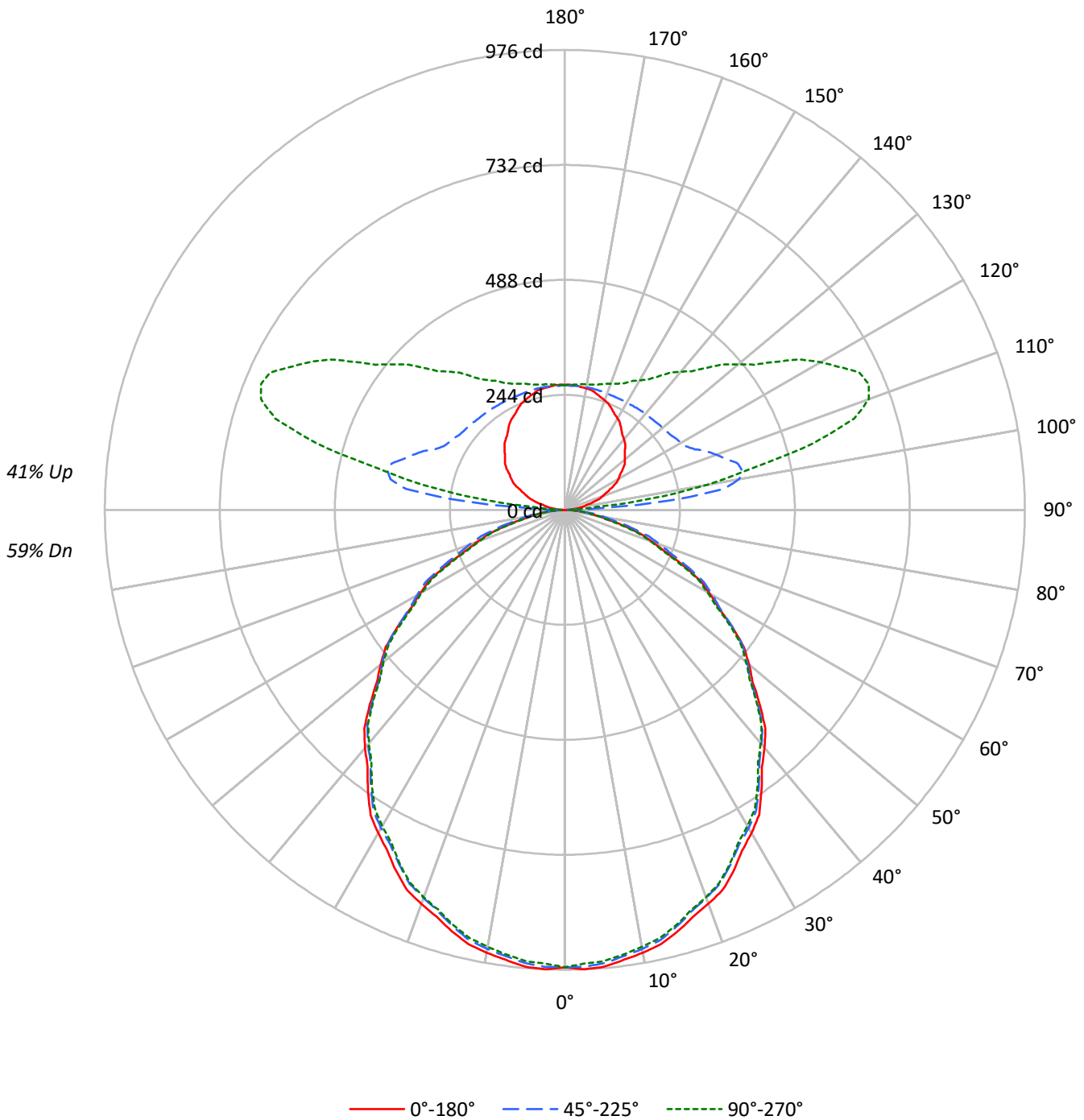
Lumens per Lamp: N/A  
Luminaire Lumens: 4200.9 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 36.3  
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	89	86	83	78	75	73	67	65	63	57	56	55	50
2	91	84	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	74	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36
4	76	65	57	51	71	61	54	48	54	48	43	46	42	39	40	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	32	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26	23
7	60	47	39	33	55	44	37	32	39	33	29	34	30	26	30	26	23	21
8	55	43	35	30	52	40	33	28	36	30	26	31	27	23	27	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	29	24	21	25	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	20	17	15

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

	0°	45°	90°
0°	8954	8954	8954
5°	9011	8940	8901
10°	8939	8867	8820
15°	8845	8747	8714
20°	8739	8605	8588
25°	8617	8461	8434
30°	8435	8308	8253
35°	8195	8080	8032
40°	7939	7817	7785
45°	7632	7531	7497
50°	7315	7253	7204
55°	6973	6973	6864
60°	6547	6674	6438
65°	5993	6292	5842
70°	5282	5789	5144
75°	4509	5183	4388
80°	3496	4362	3544
85°	2265	3345	2985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.4	2.2
10°-20°	258.0	6.1
20°-30°	382.7	9.1
30°-40°	447.8	10.7
40°-50°	445.8	10.6
50°-60°	385.0	9.2
60°-70°	277.1	6.6
70°-80°	145.3	3.5
80°-90°	37.1	0.9
90°-100°	127.2	3.0
100°-110°	345.7	8.2
110°-120°	355.4	8.5
120°-130°	284.2	6.8
130°-140°	223.3	5.3
140°-150°	171.2	4.1
150°-160°	123.1	2.9
160°-170°	75.3	1.8
170°-180°	25.4	0.6
0°-30°	732.1	17.4
0°-40°	1179.9	28.1
0°-60°	2010.7	47.9
0°-90°	2470.2	58.8
90°-120°	828.3	19.7
90°-150°	1507.0	35.9
90°-180°	1731.0	41.2
0°-180°	4200.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	973	962	965	963	961	92
15°	926	914	916	914	912	261
25°	846	832	831	826	828	389
35°	728	718	717	711	713	455
45°	585	580	577	575	575	451
55°	434	433	434	428	427	387
65°	274	283	288	277	268	272
75°	126	138	145	136	123	136
85°	21	28	32	30	28	28
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°	970.5	970.5	970.5	970.5	970.5
2.5°	975.9	967.9	970.5	968.3	963.6
5°	973.0	962.2	965.3	962.7	961.1
7.5°	963.1	953.1	955.4	952.7	951.7
10°	954.2	944.2	946.5	943.1	941.4
12.5°	944.0	933.3	935.6	932.1	931.1
15°	926.0	914.3	915.8	914.0	912.3
17.5°	905.2	893.3	893.5	890.8	890.4
20°	890.1	877.6	876.4	873.0	874.7
22.5°	873.7	860.5	859.3	854.6	856.9
25°	846.5	832.3	831.1	826.0	828.5
27.5°	815.0	801.0	801.0	793.9	796.6
30°	791.8	778.4	779.8	771.3	774.7
32.5°	767.1	755.1	755.9	747.4	750.7
35°	727.6	717.6	717.4	710.6	713.1
37.5°	687.3	678.4	677.0	673.1	673.8
40°	659.2	651.7	649.0	646.4	646.4
42.5°	629.8	623.0	620.2	618.4	617.7
45°	584.9	579.8	577.2	575.4	574.6
47.5°	540.4	535.7	533.4	532.2	531.3
50°	509.6	506.3	505.3	502.7	501.9
52.5°	478.8	476.8	475.9	472.6	471.8
55°	433.5	432.7	433.5	427.5	426.7
57.5°	386.3	387.6	390.4	382.3	380.3
60°	354.8	358.2	361.7	352.2	348.9
62.5°	322.7	328.0	333.0	322.1	317.4
65°	274.5	282.8	288.2	276.8	267.6
67.5°	228.0	238.3	244.7	232.5	222.1
70°	195.8	207.5	214.6	202.4	190.7
72.5°	167.8	180.8	186.6	175.0	163.3
75°	126.5	138.3	145.4	135.7	123.1
77.5°	89.8	100.8	106.7	98.3	87.9
80°	65.8	77.5	82.1	75.1	66.7
82.5°	46.7	56.4	59.5	55.3	49.6
85°	21.4	28.1	31.6	29.9	28.2
87.5°	5.6	10.8	14.2	14.5	15.2
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)