

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: P564731

Luminaire Tested: **SQ4-PW1-075U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564731  
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-6  
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**

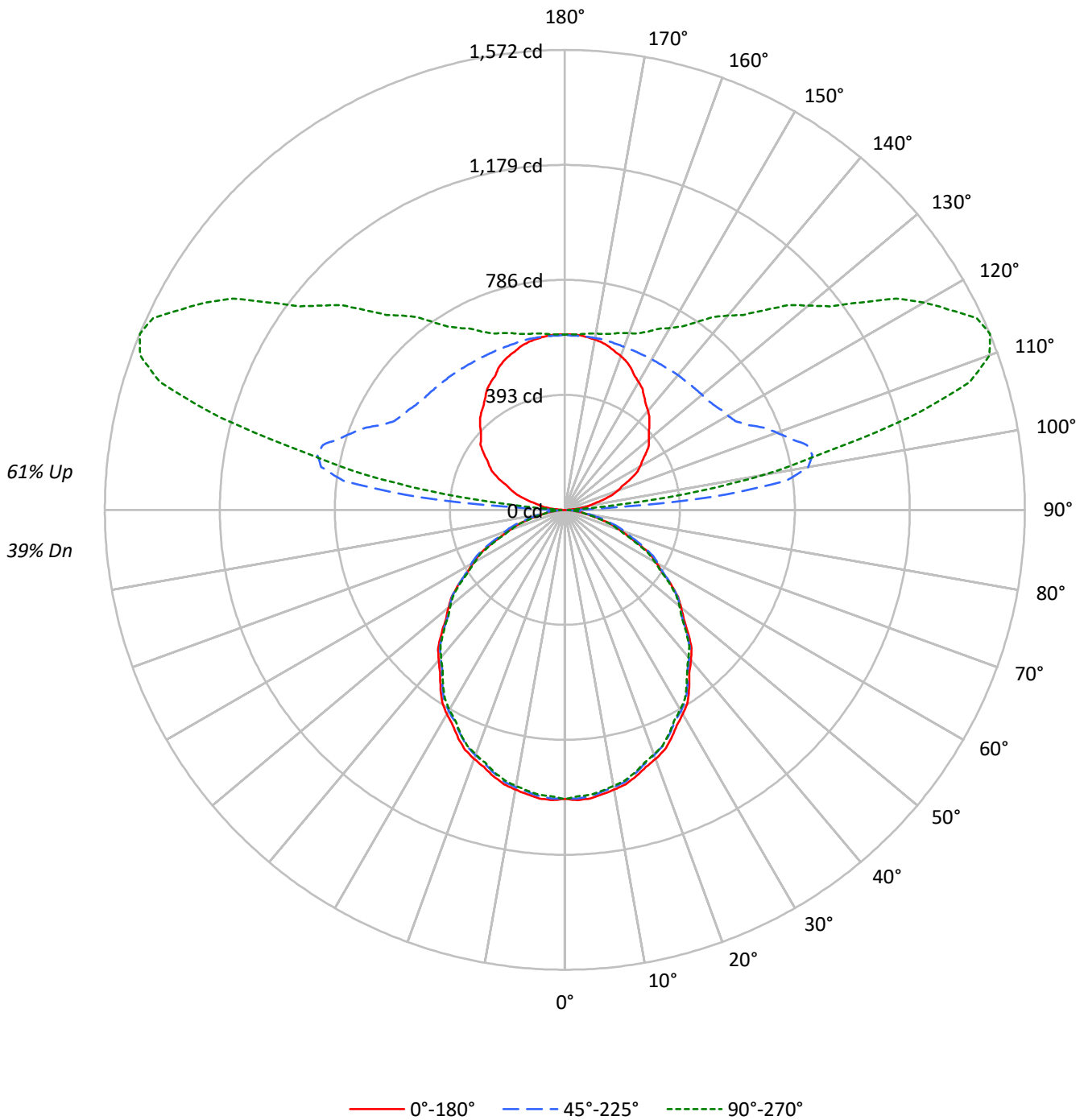
Lumens per Lamp: N/A  
Luminaire Lumens: 6416.3 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 54.3  
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	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	5935	5912
20°	5930	5839	5827
25°	5847	5740	5723
30°	5723	5636	5599
35°	5560	5482	5449
40°	5387	5303	5282
45°	5177	5110	5087
50°	4962	4921	4888
55°	4731	4731	4656
60°	4442	4528	4367
65°	4065	4269	3965
70°	3584	3928	3491
75°	3061	3515	2978
80°	2373	2958	2405
85°	1538	2272	2025



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.0	1.4
10°-20°	262.6	4.1
20°-30°	389.5	6.1
30°-40°	455.7	7.1
40°-50°	453.7	7.1
50°-60°	391.8	6.1
60°-70°	282.0	4.4
70°-80°	147.9	2.3
80°-90°	38.2	0.6
90°-100°	282.5	4.4
100°-110°	777.2	12.1
110°-120°	802.2	12.5
120°-130°	642.7	10.0
130°-140°	504.8	7.9
140°-150°	386.9	6.0
150°-160°	278.2	4.3
160°-170°	170.1	2.7
170°-180°	57.3	0.9
0°-30°	745.1	11.6
0°-40°	1200.8	18.7
0°-60°	2046.3	31.9
0°-90°	2514.4	39.2
90°-120°	1861.9	29.0
90°-150°	3396.4	52.9
90°-180°	3902.0	60.8
0°-180°	6416.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	990	979	982	980	978	94
15°	942	930	932	930	928	266
25°	862	847	846	841	843	396
35°	740	730	730	723	726	463
45°	595	590	587	586	585	459
55°	441	440	441	435	434	394
65°	279	288	293	282	272	277
75°	129	141	148	138	125	138
85°	22	29	32	30	29	29
90°	1	5	9	12	12	4
95°	42	154	500	214	136	44
105°	139	214	856	1304	1217	146
115°	246	300	687	1368	1552	243
125°	339	386	623	1054	1235	302
135°	409	454	605	852	965	316
145°	473	505	596	726	782	296
155°	535	553	593	653	672	246
165°	579	586	595	619	623	163
175°	599	600	596	604	603	57
180°	599	599	599	599	599	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	987.7	987.7	987.7	987.7	987.7
2.5°	993.2	985.1	987.7	985.5	980.7
5°	990.3	979.2	982.5	979.8	978.1
7.5°	980.2	970.0	972.4	969.5	968.5
10°	971.1	960.9	963.3	959.8	958.1
12.5°	960.7	949.8	952.2	948.7	947.6
15°	942.4	930.5	932.0	930.2	928.5
17.5°	921.2	909.1	909.4	906.6	906.2
20°	905.9	893.1	892.0	888.5	890.2
22.5°	889.2	875.7	874.5	869.7	872.1
25°	861.5	847.0	845.8	840.7	843.2
27.5°	829.5	815.2	815.2	808.0	810.7
30°	805.8	792.2	793.6	785.0	788.4
32.5°	780.7	768.5	769.3	760.6	764.0
35°	740.5	730.3	730.1	723.2	725.7
37.5°	699.5	690.4	689.0	685.0	685.7
40°	670.9	663.3	660.5	657.9	657.9
42.5°	641.0	634.0	631.2	629.3	628.6
45°	595.2	590.1	587.4	585.6	584.8
47.5°	550.0	545.2	542.8	541.6	540.7
50°	518.6	515.2	514.3	511.7	510.8
52.5°	487.3	485.3	484.4	481.0	480.2
55°	441.2	440.3	441.2	435.1	434.2
57.5°	393.2	394.5	397.3	389.1	387.1
60°	361.1	364.5	368.1	358.4	355.0
62.5°	328.4	333.9	338.9	327.8	323.0
65°	279.3	287.8	293.3	281.7	272.4
67.5°	232.0	242.5	249.1	236.6	226.1
70°	199.3	211.2	218.4	206.0	194.1
72.5°	170.7	184.0	189.9	178.1	166.2
75°	128.8	140.7	147.9	138.1	125.3
77.5°	91.4	102.6	108.6	100.0	89.5
80°	67.0	78.9	83.5	76.4	67.9
82.5°	47.5	57.4	60.6	56.3	50.5
85°	21.8	28.6	32.2	30.4	28.7
87.5°	5.8	11.3	15.0	15.5	16.2
90°	1.3	5.0	8.9	11.5	11.5
92.5°	17.6	75.2	130.2	50.0	41.0
95°	42.1	154.2	499.5	213.6	136.4
97.5°	68.6	171.0	762.3	587.4	414.4
100°	87.9	181.4	844.9	852.8	695.8
102.5°	106.3	193.8	866.3	1058.0	914.0
105°	138.9	213.7	856.4	1304.2	1217.0
107.5°	170.0	238.3	807.7	1424.8	1450.7
110°	192.4	254.7	771.0	1454.8	1544.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	212.8	273.1	734.3	1435.5	1572.1
115°	246.0	299.5	686.9	1367.8	1552.2
117.5°	277.6	326.9	656.8	1272.7	1481.3
120°	296.9	344.3	643.6	1201.5	1417.1
122.5°	314.3	361.6	634.4	1139.1	1343.7
125°	339.0	386.3	623.2	1054.2	1234.9
127.5°	362.4	407.5	615.8	983.3	1141.8
130°	374.7	420.8	611.7	941.2	1085.8
132.5°	388.9	435.0	608.6	904.2	1034.8
135°	409.1	453.9	605.3	852.5	964.7
137.5°	427.9	469.5	602.5	810.8	903.3
140°	442.2	480.8	601.5	783.1	866.6
142.5°	454.4	490.1	599.5	758.3	829.9
145°	472.8	505.2	596.4	726.4	782.5
147.5°	492.4	520.3	594.9	698.1	743.0
150°	504.6	529.6	593.9	682.6	717.5
152.5°	515.9	538.8	592.8	669.2	698.1
155°	535.2	552.7	592.6	652.9	671.6
157.5°	549.2	563.5	592.6	639.5	652.5
160°	559.4	570.7	592.6	632.3	642.3
162.5°	567.6	576.8	593.6	626.1	634.1
165°	578.6	586.0	595.1	619.4	623.2
167.5°	586.2	591.9	596.4	613.8	614.8
170°	591.3	595.0	596.4	611.7	611.7
172.5°	595.4	597.1	596.4	608.6	607.6
175°	598.9	600.2	596.4	604.0	602.8
177.5°	600.0	600.0	595.9	602.0	600.0
180°	598.9	598.9	598.9	598.9	598.9

(END OF REPORT)