

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: P564059

Luminaire Tested: **SQ4-PR1-075U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564059  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-075U-050D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

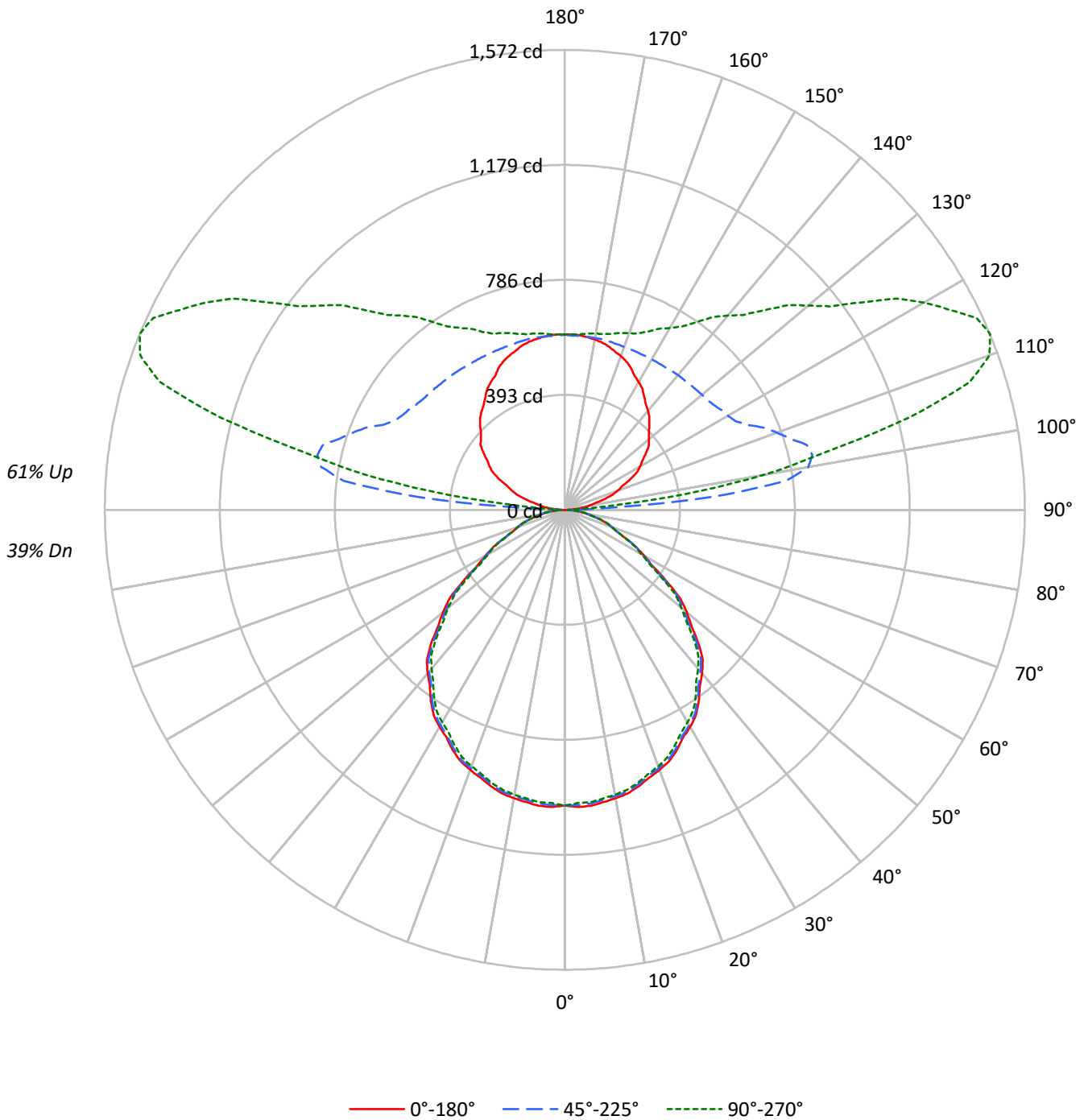
Lumens per Lamp: N/A  
Luminaire Lumens: 6429.1 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

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	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	37	35	34	28
3	80	71	63	58	72	64	58	53	53	49	45	42	39	37	33	31	29	24
4	73	63	55	49	66	57	51	45	47	42	38	38	34	32	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	22	18	22	18	15	17	15	13	11

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

	0°	45°	90°
0°	6214	6214	6214
5°	6270	6222	6190
10°	6250	6207	6174
15°	6223	6184	6151
20°	6191	6152	6106
25°	6148	6107	6035
30°	6082	6038	5952
35°	5992	5939	5855
40°	5855	5792	5687
45°	5617	5518	5404
50°	5196	5071	4971
55°	4535	4432	4339
60°	3822	3789	3715
65°	3305	3318	3294
70°	3036	3052	3052
75°	2916	2916	2937
80°	2742	2773	2742
85°	2209	2456	2456



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.5	1.5
10°-20°	273.3	4.3
20°-30°	412.3	6.4
30°-40°	491.2	7.6
40°-50°	484.3	7.5
50°-60°	370.1	5.8
60°-70°	229.1	3.6
70°-80°	130.1	2.0
80°-90°	41.1	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	2.6
170°-180°	57.3	0.9
0°-30°	781.2	12.2
0°-40°	1272.4	19.8
0°-60°	2126.9	33.1
0°-90°	2527.1	39.3
90°-120°	1861.9	29.0
90°-150°	3396.4	52.8
90°-180°	3902.0	60.7
0°-180°	6429.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1016	1004	1008	1004	1002	96
15°	977	967	971	968	966	276
25°	906	895	900	890	889	417
35°	798	789	791	780	780	498
45°	646	637	634	623	621	495
55°	423	416	413	406	405	379
65°	227	225	228	226	226	230
75°	123	123	123	124	124	130
85°	31	33	35	35	35	36
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°	1010.3	1010.3	1010.3	1010.3	1010.3
2.5°	1016.6	1007.7	1010.3	1008.1	1003.3
5°	1015.5	1004.5	1007.7	1004.2	1002.5
7.5°	1007.7	996.8	1000.0	996.5	995.5
10°	1000.7	990.5	993.8	990.2	988.5
12.5°	993.1	982.2	986.1	981.9	980.2
15°	977.2	967.0	971.1	967.6	965.9
17.5°	959.8	948.9	953.0	949.0	946.8
20°	945.9	935.7	939.8	933.7	932.8
22.5°	930.6	920.4	924.5	916.3	916.1
25°	905.9	894.8	899.8	890.2	889.3
27.5°	876.5	866.2	870.4	860.6	859.6
30°	856.3	846.1	850.2	839.7	838.0
32.5°	833.3	823.8	827.2	816.7	815.7
35°	798.0	788.6	791.0	780.5	779.7
37.5°	757.8	749.3	750.6	739.1	738.3
40°	729.2	720.7	721.4	709.2	708.3
42.5°	697.9	689.4	688.7	676.5	675.6
45°	645.7	637.2	634.4	623.0	621.3
47.5°	586.2	577.7	572.4	563.2	562.0
50°	543.0	534.5	529.9	522.1	519.5
52.5°	496.4	487.8	484.0	476.8	474.3
55°	422.9	416.1	413.3	406.3	404.6
57.5°	353.1	348.5	347.7	340.9	340.2
60°	310.7	308.1	308.0	302.0	302.0
62.5°	274.5	272.6	273.9	269.9	269.2
65°	227.1	225.4	228.0	226.3	226.3
67.5°	189.7	189.7	191.3	190.6	190.6
70°	168.8	168.8	169.7	169.7	169.7
72.5°	150.0	149.3	151.6	151.6	150.9
75°	122.7	122.7	122.7	123.6	123.6
77.5°	95.5	95.7	96.4	96.2	95.5
80°	77.4	78.3	78.3	77.4	77.4
82.5°	59.3	60.2	60.2	60.0	59.3
85°	31.3	33.0	34.8	34.8	34.8
87.5°	9.3	12.8	15.7	16.2	15.5
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)