

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: P564063

Luminaire Tested: **SQ4-PR1-075U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564063  
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-940-1D-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

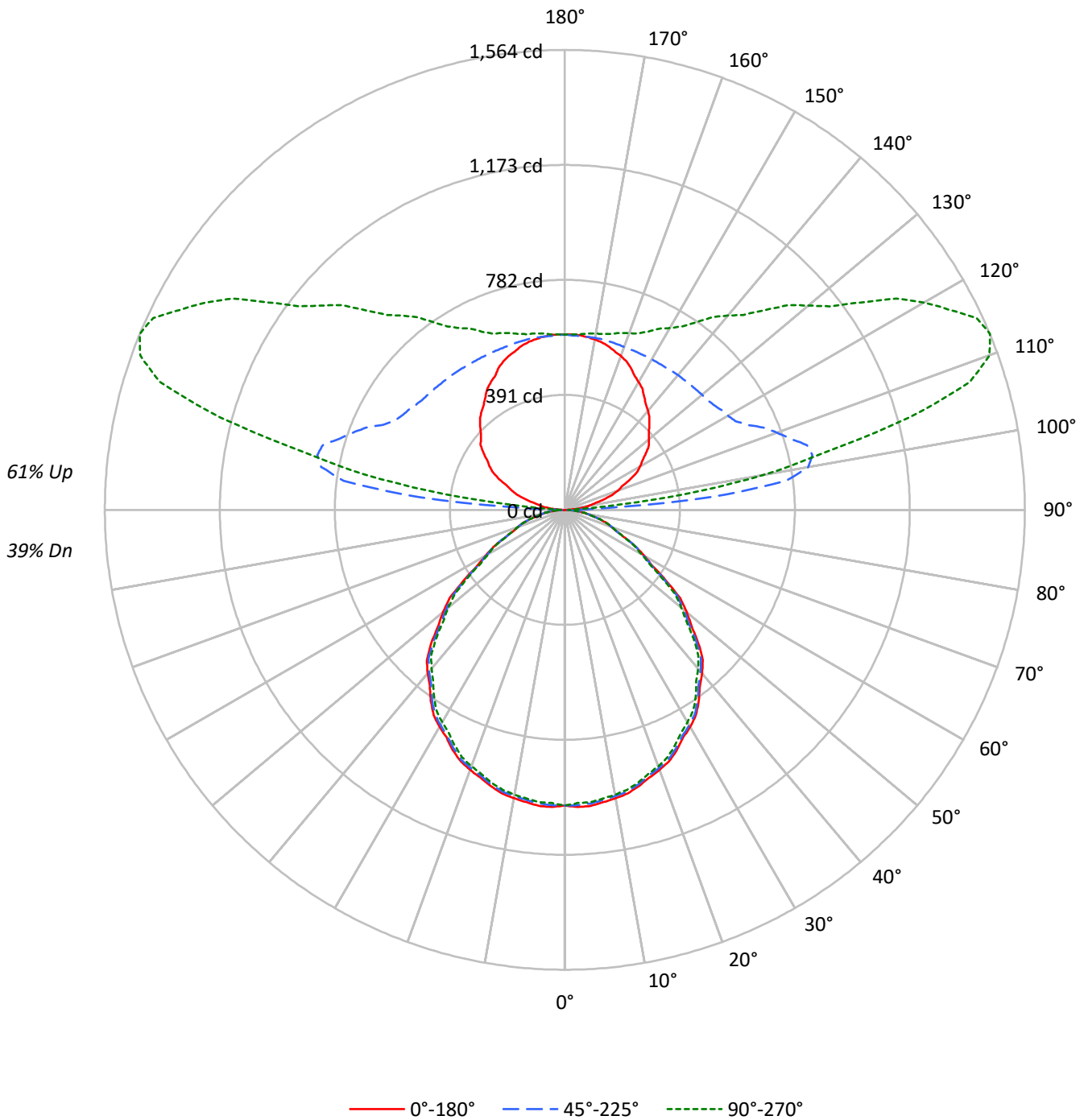
Lumens per Lamp: N/A  
Luminaire Lumens: 6396.4 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

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°	6183	6183	6183
5°	6239	6190	6158
10°	6218	6175	6143
15°	6191	6153	6119
20°	6160	6120	6075
25°	6117	6075	6005
30°	6050	6008	5921
35°	5961	5909	5825
40°	5825	5763	5658
45°	5588	5490	5377
50°	5169	5046	4946
55°	4512	4410	4317
60°	3802	3770	3695
65°	3289	3301	3276
70°	3021	3036	3036
75°	2902	2902	2921
80°	2731	2759	2731
85°	2202	2442	2442



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.1	1.5
10°-20°	272.0	4.3
20°-30°	410.2	6.4
30°-40°	488.8	7.6
40°-50°	481.9	7.5
50°-60°	368.3	5.8
60°-70°	227.9	3.6
70°-80°	129.4	2.0
80°-90°	40.9	0.6
90°-100°	281.1	4.4
100°-110°	773.3	12.1
110°-120°	798.1	12.5
120°-130°	639.5	10.0
130°-140°	502.3	7.9
140°-150°	384.9	6.0
150°-160°	276.7	4.3
160°-170°	169.2	2.6
170°-180°	57.0	0.9
0°-30°	777.2	12.2
0°-40°	1266.0	19.8
0°-60°	2116.1	33.1
0°-90°	2514.3	39.3
90°-120°	1852.5	29.0
90°-150°	3379.1	52.8
90°-180°	3882.0	60.7
0°-180°	6396.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1005	1005	1005	1005	1005	
5°	1010	999	1003	999	997	96
15°	972	962	966	963	961	274
25°	901	890	895	886	885	415
35°	794	785	787	777	776	495
45°	642	634	631	620	618	492
55°	421	414	411	404	403	377
65°	226	224	227	225	225	229
75°	122	122	122	123	123	129
85°	31	33	35	35	35	36
90°	1	5	9	11	11	4
95°	42	153	497	212	136	44
105°	138	213	852	1298	1211	146
115°	245	298	683	1361	1544	241
125°	337	384	620	1049	1229	301
135°	407	452	602	848	960	314
145°	470	503	593	723	778	295
155°	532	550	590	650	668	245
165°	576	583	592	616	620	162
175°	596	597	593	601	600	57
180°	596	596	596	596	596	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1005.2	1005.2	1005.2	1005.2	1005.2
2.5°	1011.4	1002.6	1005.2	1003.0	998.2
5°	1010.4	999.4	1002.6	999.1	997.4
7.5°	1002.6	991.7	994.9	991.5	990.4
10°	995.6	985.5	988.7	985.2	983.5
12.5°	988.0	977.2	981.1	976.9	975.2
15°	972.3	962.1	966.2	962.7	961.0
17.5°	954.9	944.1	948.2	944.2	942.0
20°	941.1	930.9	935.0	929.0	928.1
22.5°	925.9	915.7	919.8	911.7	911.5
25°	901.3	890.3	895.2	885.7	884.8
27.5°	872.0	861.8	865.9	856.2	855.2
30°	851.9	841.8	845.9	835.4	833.7
32.5°	829.1	819.6	823.0	812.6	811.6
35°	793.9	784.6	787.0	776.6	775.7
37.5°	753.9	745.5	746.8	735.4	734.5
40°	725.5	717.1	717.7	705.6	704.7
42.5°	694.4	685.9	685.2	673.0	672.2
45°	642.4	633.9	631.1	619.9	618.2
47.5°	583.2	574.7	569.5	560.3	559.1
50°	540.2	531.8	527.3	519.4	516.9
52.5°	493.8	485.4	481.5	474.4	471.8
55°	420.8	414.0	411.2	404.3	402.6
57.5°	351.3	346.8	346.0	339.2	338.5
60°	309.1	306.5	306.5	300.4	300.4
62.5°	273.1	271.2	272.5	268.5	267.9
65°	226.0	224.3	226.8	225.1	225.1
67.5°	188.7	188.7	190.3	189.6	189.6
70°	168.0	168.0	168.8	168.8	168.8
72.5°	149.3	148.6	150.8	150.8	150.1
75°	122.1	122.1	122.1	122.9	122.9
77.5°	95.1	95.2	95.9	95.7	95.1
80°	77.1	77.9	77.9	77.1	77.1
82.5°	59.0	59.9	59.9	59.7	59.0
85°	31.2	32.9	34.6	34.6	34.6
87.5°	9.3	12.7	15.6	16.1	15.4
90°	1.3	5.0	8.9	11.4	11.4
92.5°	17.5	74.8	129.6	49.8	40.8
95°	41.8	153.4	497.0	212.5	135.7
97.5°	68.2	170.1	758.5	584.4	412.3
100°	87.5	180.5	840.6	848.5	692.3
102.5°	105.7	192.8	861.9	1052.6	909.3
105°	138.2	212.6	852.0	1297.6	1210.8
107.5°	169.1	237.1	803.6	1417.6	1443.4
110°	191.5	253.4	767.1	1447.4	1536.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	211.7	271.7	730.6	1428.2	1564.1
115°	244.7	298.0	683.4	1360.8	1544.3
117.5°	276.1	325.2	653.5	1266.3	1473.8
120°	295.4	342.5	640.3	1195.4	1409.9
122.5°	312.7	359.8	631.2	1133.3	1336.9
125°	337.3	384.4	620.0	1048.8	1228.6
127.5°	360.6	405.5	612.6	978.3	1136.0
130°	372.8	418.6	608.6	936.4	1080.2
132.5°	387.0	432.8	605.5	899.6	1029.5
135°	407.0	451.6	602.2	848.2	959.8
137.5°	425.8	467.2	599.5	806.7	898.7
140°	440.0	478.4	598.4	779.1	862.2
142.5°	452.1	487.6	596.4	754.5	825.6
145°	470.4	502.6	593.4	722.7	778.5
147.5°	489.9	517.7	591.9	694.5	739.2
150°	502.1	526.9	590.8	679.1	713.8
152.5°	513.2	536.1	589.8	665.8	694.5
155°	532.5	549.9	589.6	649.6	668.2
157.5°	546.5	560.6	589.6	636.3	649.2
160°	556.6	567.8	589.6	629.1	639.0
162.5°	564.7	573.9	590.6	623.0	630.9
165°	575.6	583.1	592.1	616.3	620.0
167.5°	583.2	588.9	593.4	610.6	611.6
170°	588.3	592.0	593.4	608.6	608.6
172.5°	592.4	594.1	593.4	605.5	604.5
175°	595.9	597.1	593.4	601.0	599.7
177.5°	596.9	596.9	592.9	598.9	596.9
180°	595.9	595.9	595.9	595.9	595.9

(END OF REPORT)