

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: P563309

Luminaire Tested: **SQ4-PP3-050U-075D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563309  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-050U-075D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

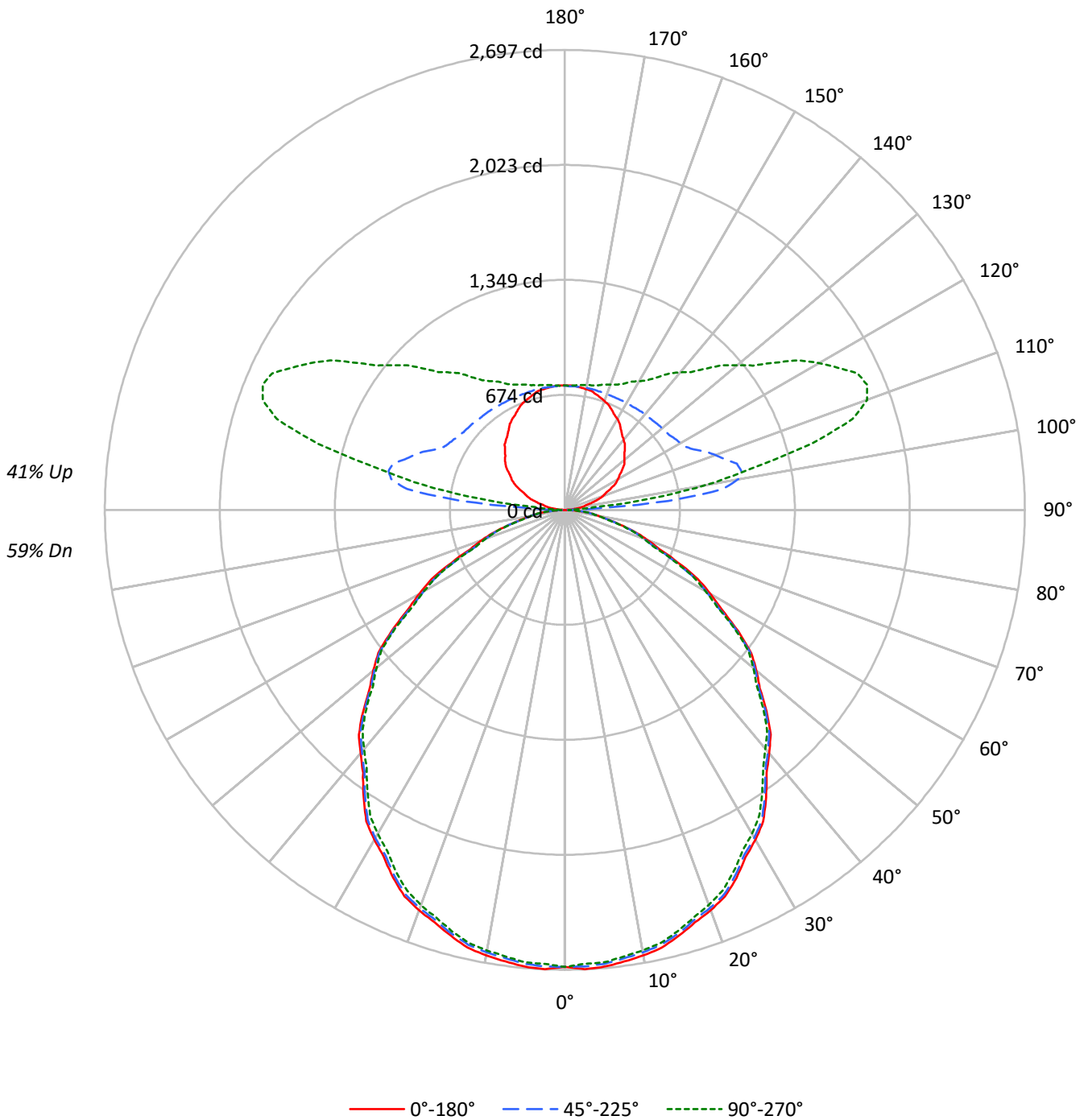
Lumens per Lamp: N/A  
Luminaire Lumens: 11616.9 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 105.6  
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	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	90	86	83	78	75	73	67	65	64	57	56	55	50				
2	91	84	78	73	85	79	73	69	69	64	61	59	56	54	51	49	47	42				
3	83	74	67	61	78	69	63	58	61	56	51	53	49	46	45	42	40	36				
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31				
5	70	58	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27				
6	65	53	44	38	60	49	42	37	44	38	33	38	33	30	33	29	27	24				
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	26	24	21				
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19				
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17				
10	48	36	29	24	45	34	28	23	31	25	21	27	22	19	24	20	17	15				

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

	0°	45°	90°
0°	8241	8241	8241
5°	8302	8251	8222
10°	8288	8229	8193
15°	8233	8188	8143
20°	8179	8133	8071
25°	8081	8026	7946
30°	7932	7890	7790
35°	7724	7671	7574
40°	7477	7430	7345
45°	7273	7222	7151
50°	7012	6967	6900
55°	6649	6561	6511
60°	6053	5880	5851
65°	5333	5110	5093
70°	4604	4414	4414
75°	3963	3907	3851
80°	3494	3535	3452
85°	2735	2985	2985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.4	2.2
10°-20°	723.6	6.2
20°-30°	1083.8	9.3
30°-40°	1271.2	10.9
40°-50°	1275.2	11.0
50°-60°	1087.8	9.4
60°-70°	709.5	6.1
70°-80°	355.9	3.1
80°-90°	101.3	0.9
90°-100°	349.6	3.0
100°-110°	949.7	8.2
110°-120°	976.5	8.4
120°-130°	780.7	6.7
130°-140°	613.5	5.3
140°-150°	470.4	4.0
150°-160°	338.3	2.9
160°-170°	206.9	1.8
170°-180°	69.7	0.6
0°-30°	2060.7	17.7
0°-40°	3331.9	28.7
0°-60°	5695.0	49.0
0°-90°	6861.7	59.1
90°-120°	2275.9	19.6
90°-150°	4140.4	35.6
90°-180°	4755.0	40.9
0°-180°	11616.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2680	2680	2680	2680	2680	
5°	2689	2664	2673	2663	2663	255
15°	2586	2561	2572	2562	2558	730
25°	2382	2354	2365	2344	2342	1095
35°	2057	2037	2043	2020	2018	1285
45°	1672	1661	1660	1644	1644	1288
55°	1240	1236	1224	1217	1214	1102
65°	733	719	702	698	700	731
75°	334	334	329	326	324	362
85°	78	84	85	85	85	91
90°	2	9	16	21	21	6
95°	52	191	609	265	178	55
105°	169	262	1044	1590	1496	179
115°	300	364	836	1663	1894	296
125°	412	469	756	1274	1503	367
135°	496	551	735	1038	1171	384
145°	574	615	726	882	948	360
155°	649	672	721	792	815	299
165°	702	712	724	754	756	198
175°	728	731	726	735	733	69
180°	728	728	728	728	728	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2679.8	2679.8	2679.8	2679.8	2679.8
2.5°	2696.7	2674.7	2679.8	2675.8	2664.8
5°	2689.2	2664.0	2672.8	2663.4	2663.4
7.5°	2670.9	2643.3	2652.1	2642.7	2642.2
10°	2654.0	2626.4	2635.2	2625.8	2623.5
12.5°	2629.6	2602.0	2612.7	2601.4	2600.9
15°	2585.9	2560.6	2571.8	2562.3	2557.7
17.5°	2536.6	2509.0	2522.5	2509.3	2507.4
20°	2499.0	2471.4	2484.9	2466.1	2466.1
22.5°	2453.9	2426.3	2441.7	2417.2	2417.2
25°	2381.5	2354.0	2365.1	2343.9	2341.6
27.5°	2295.6	2268.5	2280.1	2256.1	2255.7
30°	2233.6	2208.3	2221.8	2195.9	2193.6
32.5°	2165.9	2142.5	2152.3	2126.4	2124.1
35°	2057.4	2036.8	2043.3	2019.8	2017.5
37.5°	1943.3	1922.2	1929.7	1909.4	1908.5
40°	1862.5	1848.7	1850.7	1834.2	1829.6
42.5°	1787.3	1771.7	1773.7	1757.2	1756.3
45°	1672.2	1660.8	1660.5	1644.1	1644.1
47.5°	1550.1	1541.4	1538.8	1525.2	1524.8
50°	1465.6	1458.7	1456.2	1444.4	1442.1
52.5°	1377.3	1374.0	1366.0	1356.1	1355.6
55°	1240.1	1235.5	1223.7	1216.6	1214.3
57.5°	1091.2	1082.0	1068.6	1058.3	1060.2
60°	984.1	974.9	955.9	951.2	951.2
62.5°	880.7	869.7	850.7	844.2	847.9
65°	732.8	719.0	702.2	697.6	699.9
67.5°	598.4	586.0	567.9	567.9	566.0
70°	512.0	505.1	490.9	490.9	490.9
72.5°	435.0	431.8	421.3	421.3	419.5
75°	333.5	333.5	328.8	326.4	324.1
77.5°	249.9	250.8	248.5	246.0	241.9
80°	197.3	201.9	199.6	197.2	194.9
82.5°	148.4	153.0	152.7	148.4	148.0
85°	77.5	84.4	84.6	84.6	84.6
87.5°	21.1	29.9	33.3	34.3	36.2
90°	2.3	9.2	16.4	21.1	21.1
92.5°	21.1	95.7	166.3	71.4	60.4
95°	51.5	191.2	608.9	265.0	178.0
97.5°	85.2	211.2	933.4	726.2	510.0
100°	107.7	224.5	1032.7	1046.9	845.4
102.5°	130.2	237.8	1059.0	1294.7	1117.0
105°	168.6	262.5	1044.4	1590.3	1496.4
107.5°	208.4	291.3	984.0	1742.9	1769.0
110°	236.5	312.1	939.1	1772.9	1885.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	260.9	332.8	894.1	1748.0	1917.0
115°	299.7	363.9	836.0	1663.2	1894.5
117.5°	336.3	397.6	799.0	1543.1	1803.6
120°	360.6	420.2	782.2	1462.5	1721.2
122.5°	381.2	440.8	770.9	1381.7	1631.3
125°	412.2	469.4	756.4	1274.4	1503.4
127.5°	439.8	496.6	748.4	1193.2	1389.6
130°	456.6	511.6	744.7	1142.1	1318.4
132.5°	473.5	528.5	740.9	1098.6	1254.7
135°	496.5	551.4	735.3	1038.1	1170.9
137.5°	521.3	571.2	732.5	984.7	1096.4
140°	536.3	584.4	730.6	950.7	1051.5
142.5°	551.3	595.7	728.8	924.1	1008.4
145°	573.7	615.0	726.0	882.0	948.4
147.5°	599.0	634.3	723.6	848.9	901.1
150°	615.9	645.7	723.6	829.9	871.1
152.5°	629.0	655.1	721.7	812.9	846.8
155°	648.7	671.6	721.3	792.0	814.9
157.5°	667.9	685.7	721.3	777.9	795.3
160°	679.1	695.1	721.3	768.4	782.2
162.5°	690.4	702.7	723.1	760.8	770.9
165°	702.5	711.7	723.6	754.1	756.4
167.5°	715.2	719.8	726.0	746.1	748.0
170°	718.9	723.5	726.0	742.3	742.3
172.5°	722.7	725.4	726.0	738.6	738.6
175°	728.3	730.6	726.0	735.3	733.0
177.5°	730.2	730.2	724.5	732.0	728.3
180°	728.3	728.3	728.3	728.3	728.3

(END OF REPORT)