

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: P562637

Luminaire Tested: **SQ4-PC3-050U-075D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562637  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-050U-075D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID 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: 11682.4 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

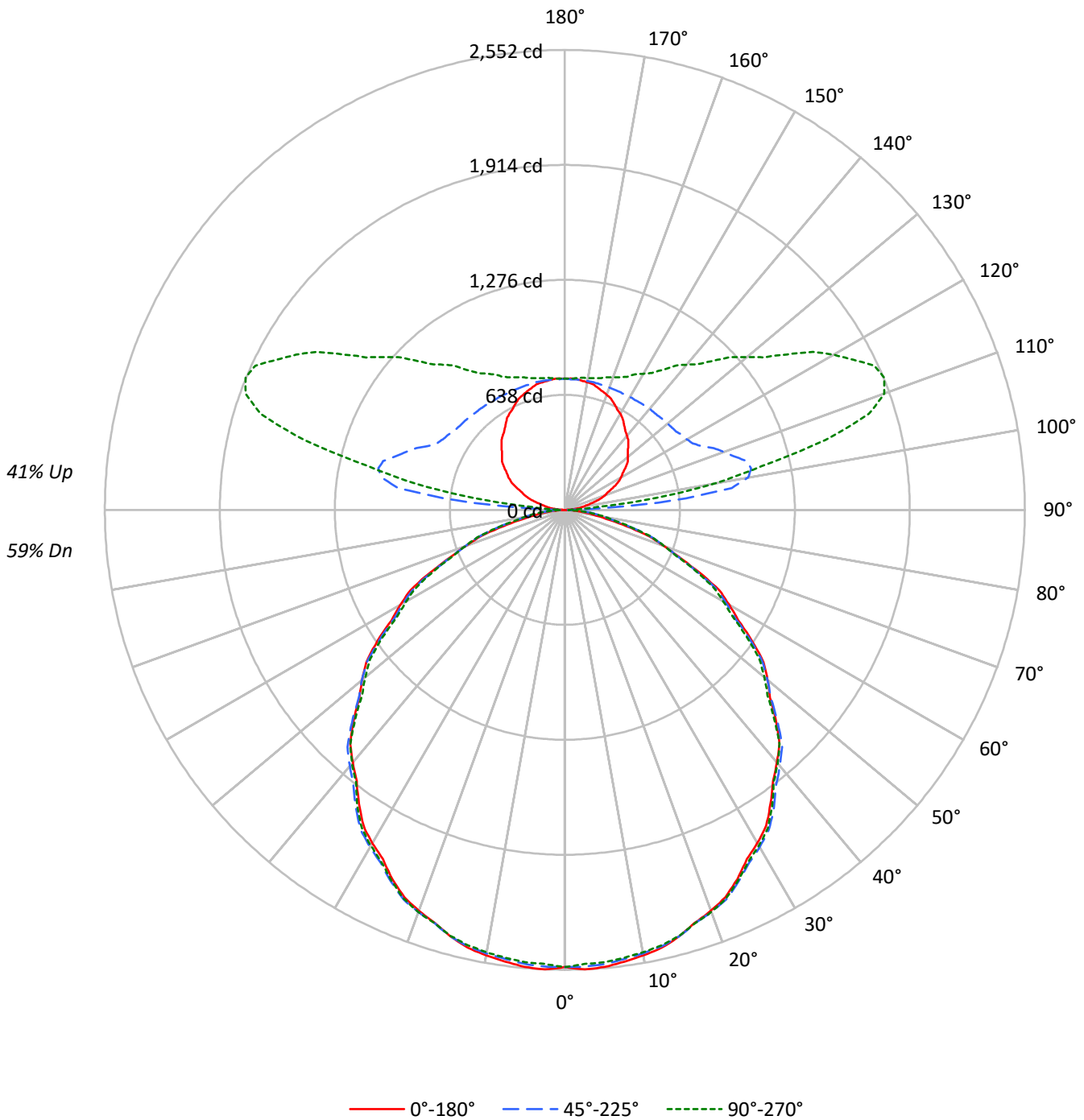
Input Watts (W): 105.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	0
RCR																		
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	73	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	53	48	43	46	42	38	40	37	34	30
5	70	58	50	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	44	38	60	49	41	36	43	37	33	38	33	29	33	29	26	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	30	26	23	20
8	55	43	35	29	51	40	33	28	36	30	25	31	26	23	27	23	21	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	21	27	22	19	23	20	17	15

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

	0°	45°	90°
0°	7803	7803	7803
5°	7862	7811	7782
10°	7842	7806	7784
15°	7801	7801	7794
20°	7750	7773	7773
25°	7677	7732	7709
30°	7583	7675	7642
35°	7470	7585	7532
40°	7347	7451	7375
45°	7213	7265	7152
50°	7025	7025	6913
55°	6802	6714	6613
60°	6473	6343	6242
65°	5983	5864	5812
70°	5239	5281	5260
75°	4215	4661	4690
80°	2995	3953	3994
85°	1824	3317	3317



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.1	2.1
10°-20°	689.1	5.9
20°-30°	1043.5	8.9
30°-40°	1251.0	10.7
40°-50°	1275.6	10.9
50°-60°	1113.5	9.5
60°-70°	797.2	6.8
70°-80°	410.6	3.5
80°-90°	106.6	0.9
90°-100°	349.6	3.0
100°-110°	949.7	8.1
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°	1972.7	16.9
0°-40°	3223.7	27.6
0°-60°	5612.8	48.0
0°-90°	6927.2	59.3
90°-120°	2275.9	19.5
90°-150°	4140.4	35.4
90°-180°	4755.0	40.7
0°-180°	11682.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2537	2537	2537	2537	2537	
5°	2547	2521	2530	2523	2521	242
15°	2450	2430	2450	2450	2448	691
25°	2262	2246	2279	2272	2272	1041
35°	1990	1985	2020	2006	2006	1244
45°	1658	1654	1670	1649	1644	1277
55°	1269	1252	1252	1233	1233	1131
65°	822	804	806	799	799	813
75°	355	371	392	395	395	383
85°	52	79	94	96	94	70
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°	2537.2	2537.2	2537.2	2537.2	2537.2
2.5°	2552.2	2530.1	2537.2	2531.3	2522.1
5°	2546.6	2521.3	2530.1	2523.0	2520.7
7.5°	2528.2	2503.0	2514.6	2509.9	2507.6
10°	2511.3	2486.0	2499.6	2494.8	2492.5
12.5°	2488.8	2465.3	2480.8	2476.1	2475.6
15°	2450.2	2429.6	2450.2	2450.2	2447.9
17.5°	2401.8	2383.0	2405.1	2406.5	2405.1
20°	2368.0	2347.3	2375.1	2372.8	2375.1
22.5°	2326.7	2309.7	2339.4	2333.3	2335.6
25°	2262.3	2246.2	2278.7	2271.7	2271.7
27.5°	2186.2	2174.7	2210.1	2202.6	2202.6
30°	2135.4	2124.0	2161.3	2151.9	2151.9
32.5°	2079.1	2071.2	2106.8	2095.5	2095.5
35°	1989.8	1985.2	2020.3	2006.2	2006.2
37.5°	1897.7	1893.6	1925.4	1908.4	1902.9
40°	1830.0	1827.7	1855.9	1837.1	1837.1
42.5°	1762.4	1760.1	1784.5	1761.9	1761.9
45°	1658.5	1654.0	1670.3	1649.0	1644.5
47.5°	1545.3	1540.7	1551.0	1527.9	1525.6
50°	1468.3	1463.7	1468.3	1447.1	1444.8
52.5°	1389.3	1381.1	1381.8	1360.7	1360.2
55°	1268.6	1252.5	1252.1	1233.3	1233.3
57.5°	1140.8	1119.6	1121.5	1105.5	1103.2
60°	1052.4	1029.5	1031.3	1017.2	1014.9
62.5°	966.0	939.4	944.9	928.9	928.4
65°	822.2	803.8	805.8	798.7	798.7
67.5°	684.1	667.1	679.4	673.7	673.3
70°	582.6	571.1	587.3	587.3	585.0
72.5°	488.6	488.2	508.4	508.4	509.8
75°	354.7	370.8	392.3	394.7	394.7
77.5°	236.8	265.3	289.0	289.9	289.4
80°	169.1	201.3	223.2	227.8	225.5
82.5°	114.6	148.6	166.8	171.4	169.1
85°	51.7	79.2	94.0	96.3	94.0
87.5°	15.5	33.4	40.9	41.7	38.0
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)