

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: P562639

Luminaire Tested: **SQ4-PC3-050U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562639  
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-6  
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**

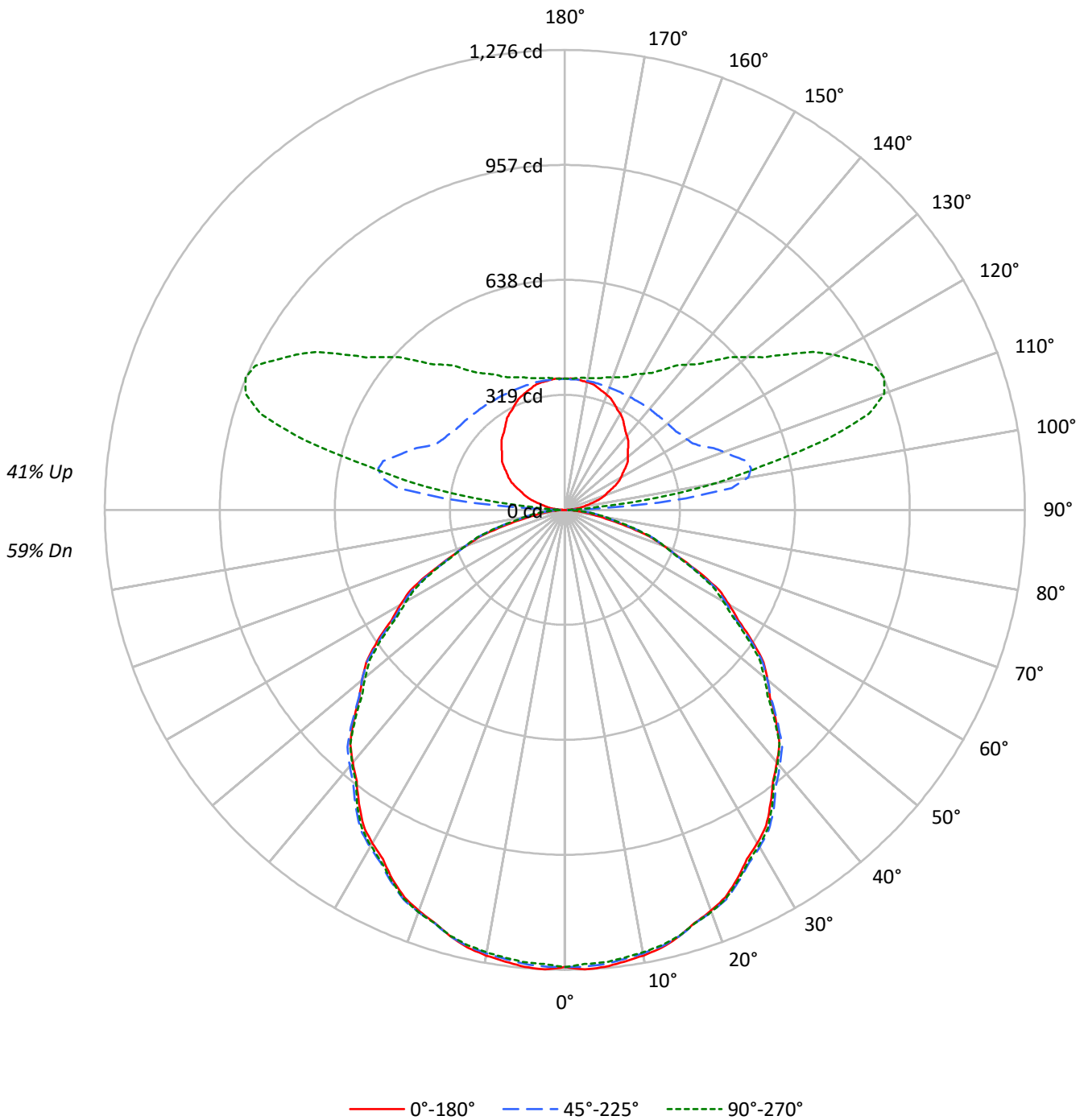
Lumens per Lamp: N/A  
Luminaire Lumens: 5841.2 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 58.5  
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°	7843	7806	7784
15°	7801	7801	7794
20°	7750	7773	7773
25°	7676	7733	7708
30°	7583	7675	7641
35°	7470	7585	7532
40°	7347	7450	7375
45°	7214	7264	7152
50°	7025	7025	6913
55°	6802	6714	6613
60°	6473	6344	6242
65°	5983	5864	5813
70°	5239	5282	5260
75°	4216	4663	4689
80°	2997	3953	3995
85°	1821	3317	3317



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.1	2.1
10°-20°	344.5	5.9
20°-30°	521.7	8.9
30°-40°	625.5	10.7
40°-50°	637.8	10.9
50°-60°	556.8	9.5
60°-70°	398.6	6.8
70°-80°	205.3	3.5
80°-90°	53.3	0.9
90°-100°	174.8	3.0
100°-110°	474.9	8.1
110°-120°	488.2	8.4
120°-130°	390.4	6.7
130°-140°	306.7	5.3
140°-150°	235.2	4.0
150°-160°	169.1	2.9
160°-170°	103.4	1.8
170°-180°	34.8	0.6
0°-30°	986.3	16.9
0°-40°	1611.8	27.6
0°-60°	2806.4	48.0
0°-90°	3463.6	59.3
90°-120°	1137.9	19.5
90°-150°	2070.2	35.4
90°-180°	2378.0	40.7
0°-180°	5841.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1273	1261	1265	1262	1260	121
15°	1225	1215	1225	1225	1224	345
25°	1131	1123	1139	1136	1136	521
35°	995	993	1010	1003	1003	622
45°	829	827	835	824	822	638
55°	634	626	626	617	617	565
65°	411	402	403	399	399	407
75°	177	185	196	197	197	192
85°	26	40	47	48	47	35
90°	1	5	8	10	10	3
95°	26	96	304	132	89	27
105°	84	131	522	795	748	90
115°	150	182	418	832	947	148
125°	206	235	378	637	752	184
135°	248	276	368	519	585	192
145°	287	308	363	441	474	180
155°	324	336	361	396	408	150
165°	351	356	362	377	378	99
175°	364	365	363	368	366	35
180°	364	364	364	364	364	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1268.6	1268.6	1268.6	1268.6	1268.6
2.5°	1276.1	1265.1	1268.6	1265.7	1261.1
5°	1273.3	1260.6	1265.1	1261.5	1260.4
7.5°	1264.1	1251.5	1257.3	1254.9	1253.8
10°	1255.7	1243.0	1249.8	1247.4	1246.3
12.5°	1244.4	1232.7	1240.4	1238.0	1237.8
15°	1225.1	1214.8	1225.1	1225.1	1223.9
17.5°	1200.9	1191.5	1202.6	1203.3	1202.6
20°	1184.0	1173.7	1187.5	1186.4	1187.5
22.5°	1163.3	1154.8	1169.7	1166.6	1167.8
25°	1131.1	1123.1	1139.4	1135.8	1135.8
27.5°	1093.1	1087.3	1105.1	1101.3	1101.3
30°	1067.7	1062.0	1080.6	1075.9	1075.9
32.5°	1039.5	1035.6	1053.4	1047.8	1047.8
35°	994.9	992.6	1010.2	1003.1	1003.1
37.5°	948.8	946.8	962.7	954.2	951.4
40°	915.0	913.9	927.9	918.5	918.5
42.5°	881.2	880.0	892.2	881.0	881.0
45°	829.3	827.0	835.1	824.5	822.2
47.5°	772.7	770.4	775.5	763.9	762.8
50°	734.1	731.8	734.1	723.5	722.4
52.5°	694.7	690.5	690.9	680.3	680.1
55°	634.3	626.2	626.1	616.7	616.7
57.5°	570.4	559.8	560.8	552.7	551.6
60°	526.2	514.7	515.7	508.6	507.4
62.5°	483.0	469.7	472.4	464.4	464.2
65°	411.1	401.9	402.9	399.4	399.4
67.5°	342.0	333.5	339.7	336.9	336.6
70°	291.3	285.6	293.7	293.6	292.5
72.5°	244.3	244.1	254.2	254.2	254.9
75°	177.4	185.4	196.2	197.3	197.3
77.5°	118.4	132.6	144.5	144.9	144.7
80°	84.6	100.7	111.6	113.9	112.8
82.5°	57.3	74.3	83.4	85.7	84.6
85°	25.8	39.6	47.0	48.1	47.0
87.5°	7.8	16.7	20.4	20.9	19.0
90°	1.2	4.6	8.2	10.5	10.5
92.5°	10.5	47.9	83.1	35.7	30.2
95°	25.8	95.6	304.4	132.5	89.0
97.5°	42.6	105.6	466.7	363.1	255.0
100°	53.9	112.2	516.4	523.4	422.7
102.5°	65.1	118.9	529.5	647.4	558.5
105°	84.3	131.2	522.2	795.1	748.2
107.5°	104.2	145.7	492.0	871.4	884.5
110°	118.3	156.0	469.5	886.5	942.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	130.4	166.4	447.0	874.0	958.5
115°	149.9	181.9	418.0	831.6	947.2
117.5°	168.1	198.8	399.5	771.5	901.8
120°	180.3	210.1	391.1	731.2	860.6
122.5°	190.6	220.4	385.5	690.9	815.6
125°	206.1	234.7	378.2	637.2	751.7
127.5°	219.9	248.3	374.2	596.6	694.8
130°	228.3	255.8	372.3	571.1	659.2
132.5°	236.8	264.2	370.5	549.3	627.4
135°	248.2	275.7	367.7	519.0	585.4
137.5°	260.6	285.6	366.3	492.3	548.2
140°	268.1	292.2	365.3	475.4	525.7
142.5°	275.6	297.8	364.4	462.1	504.2
145°	286.9	307.5	363.0	441.0	474.2
147.5°	299.5	317.1	361.8	424.5	450.6
150°	307.9	322.8	361.8	415.0	435.6
152.5°	314.5	327.6	360.9	406.4	423.4
155°	324.3	335.8	360.6	396.0	407.5
157.5°	333.9	342.9	360.6	388.9	397.6
160°	339.6	347.6	360.6	384.2	391.1
162.5°	345.2	351.4	361.6	380.4	385.5
165°	351.3	355.8	361.8	377.1	378.2
167.5°	357.6	359.9	363.0	373.1	374.0
170°	359.5	361.8	363.0	371.2	371.2
172.5°	361.3	362.7	363.0	369.3	369.3
175°	364.1	365.3	363.0	367.6	366.5
177.5°	365.1	365.1	362.3	366.0	364.1
180°	364.1	364.1	364.1	364.1	364.1

(END OF REPORT)