

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: P561483

Luminaire Tested: **SQ4-PC3-050U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561483  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5460.5 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

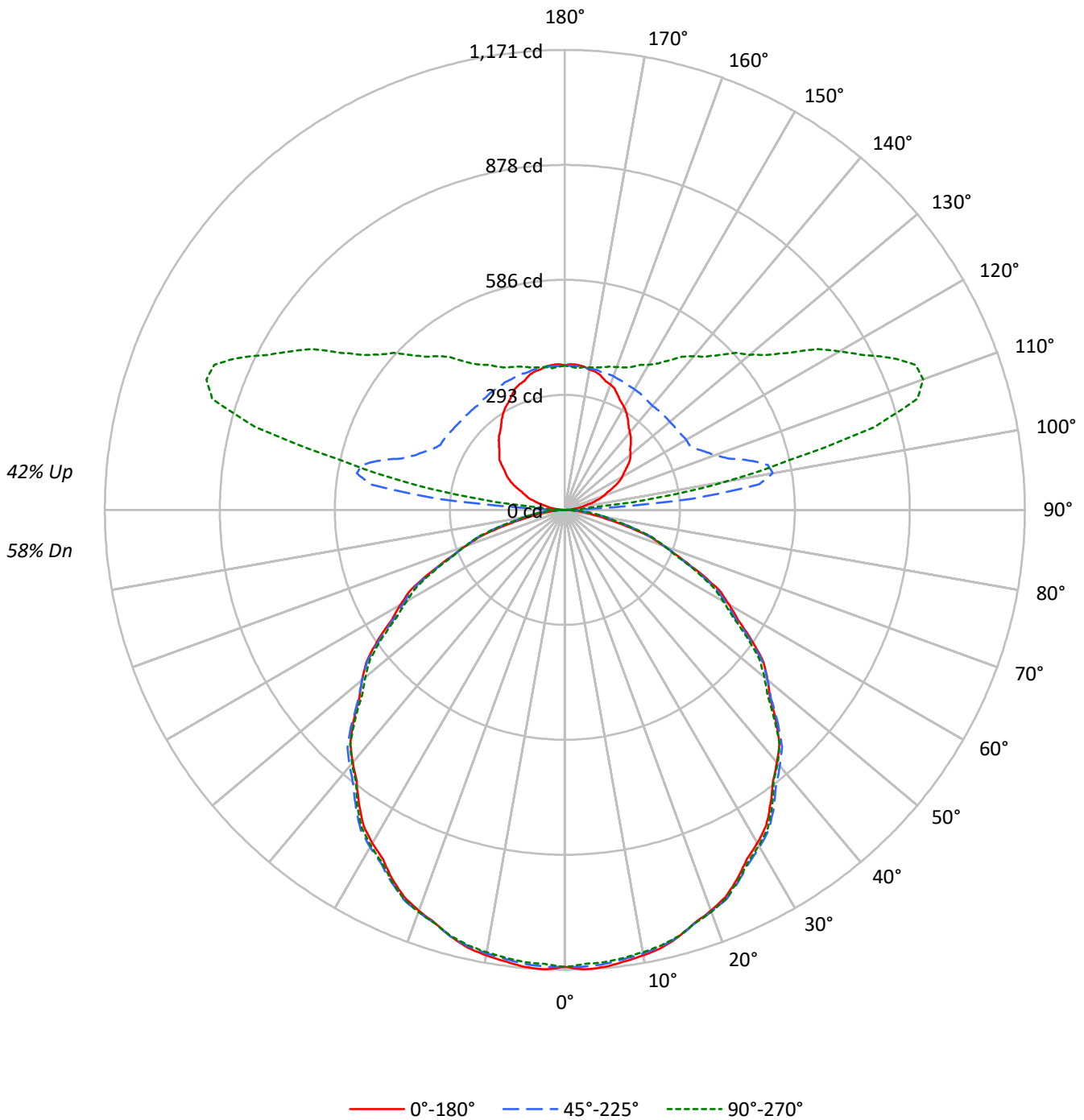
Input Watts (W): 47.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20																		
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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	58																												
1	100	95	91	88	93	89	86	83	77	75	72	66	65	63	56	55	54	49																												
2	91	83	77	72	84	78	72	68	68	64	60	58	55	53	50	47	45	41																												
3	83	73	66	60	77	69	62	57	60	55	50	52	48	44	44	41	39	35																												
4	76	65	57	51	70	61	54	48	53	47	43	46	42	38	39	36	33	30																												
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26																												
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23																												
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20																												
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18																												
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16																												
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15																												

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

	0°	45°	90°
0°	10740	10740	10740
5°	10821	10751	10711
10°	10794	10744	10714
15°	10738	10738	10727
20°	10668	10699	10699
25°	10566	10643	10611
30°	10437	10564	10518
35°	10282	10440	10368
40°	10112	10255	10152
45°	9928	9999	9845
50°	9668	9668	9515
55°	9362	9241	9103
60°	8911	8732	8591
65°	8235	8071	8001
70°	7211	7270	7240
75°	5803	6417	6456
80°	4123	5441	5499
85°	2509	4563	4563



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.2	2.0
10°-20°	316.1	5.8
20°-30°	478.8	8.8
30°-40°	574.0	10.5
40°-50°	585.2	10.7
50°-60°	510.9	9.4
60°-70°	365.8	6.7
70°-80°	188.4	3.5
80°-90°	47.6	0.9
90°-100°	167.5	3.1
100°-110°	476.6	8.7
110°-120°	456.7	8.4
120°-130°	361.4	6.6
130°-140°	290.1	5.3
140°-150°	227.1	4.2
150°-160°	166.2	3.0
160°-170°	102.9	1.9
170°-180°	34.9	0.6
0°-30°	905.1	16.6
0°-40°	1479.0	27.1
0°-60°	2575.2	47.2
0°-90°	3177.0	58.2
90°-120°	1100.8	20.2
90°-150°	1979.5	36.3
90°-180°	2283.0	41.8
0°-180°	5460.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1168	1157	1161	1158	1156	111
15°	1124	1115	1124	1124	1123	317
25°	1038	1031	1046	1042	1042	478
35°	913	911	927	920	920	571
45°	761	759	766	757	754	586
55°	582	575	574	566	566	519
65°	377	369	370	366	366	373
75°	163	170	180	181	181	176
85°	24	36	43	44	43	32
90°	0	0	0	0	0	2
95°	18	72	324	112	69	21
105°	74	112	486	858	816	78
115°	138	166	368	780	916	136
125°	194	216	352	583	698	174
135°	238	257	347	493	557	183
145°	280	295	350	426	465	175
155°	320	328	358	385	401	148
165°	354	355	363	370	376	99
175°	370	368	367	365	362	35
180°	368	368	368	368	368	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	<i>1164.1</i>	1164.1	1164.1	1164.1	1164.1
2.5°	<i>1171.0</i>	<i>1160.8</i>	<i>1164.1</i>	<i>1161.4</i>	<i>1157.2</i>
5°	<i>1168.4</i>	1156.8	1160.8	1157.6	1156.5
7.5°	<i>1160.0</i>	1148.4	1153.7	1151.5	1150.5
10°	<i>1152.2</i>	1140.6	1146.8	1144.6	1143.6
12.5°	<i>1141.9</i>	1131.1	1138.2	1136.0	1135.8
15°	<i>1124.2</i>	1114.7	1124.2	1124.2	1123.1
17.5°	<i>1102.0</i>	1093.3	1103.5	1104.1	1103.5
20°	<i>1086.5</i>	1077.0	1089.7	1088.6	1089.7
22.5°	<i>1067.5</i>	1059.7	1073.3	1070.5	1071.6
25°	<i>1037.9</i>	1030.6	1045.5	1042.3	1042.3
27.5°	<i>1003.0</i>	997.8	1014.0	1010.6	1010.6
30°	<i>979.7</i>	974.5	991.6	987.3	987.3
32.5°	<i>953.9</i>	950.3	966.6	961.4	961.4
35°	<i>912.9</i>	910.8	926.9	920.5	920.5
37.5°	<i>870.7</i>	868.8	883.4	875.6	873.0
40°	<i>839.6</i>	838.6	851.5	842.9	842.9
42.5°	<i>808.6</i>	807.5	818.7	808.4	808.4
45°	<i>760.9</i>	758.8	766.3	756.6	754.5
47.5°	<i>709.0</i>	706.9	711.6	701.0	699.9
50°	<i>673.6</i>	671.5	673.6	663.9	662.9
52.5°	<i>637.4</i>	633.6	634.0	624.3	624.1
55°	<i>582.0</i>	574.7	574.5	565.9	565.9
57.5°	<i>523.4</i>	513.7	514.6	507.2	506.1
60°	<i>482.9</i>	472.3	473.2	466.7	465.6
62.5°	<i>443.2</i>	431.0	433.5	426.2	426.0
65°	<i>377.2</i>	368.8	369.7	366.5	366.5
67.5°	<i>313.9</i>	306.1	311.7	309.1	308.9
70°	<i>267.3</i>	262.0	269.5	269.4	268.4
72.5°	<i>224.2</i>	224.0	233.2	233.3	233.9
75°	<i>162.8</i>	170.1	180.0	181.1	181.1
77.5°	<i>108.6</i>	121.7	132.6	133.0	132.8
80°	<i>77.6</i>	92.4	102.4	104.5	103.5
82.5°	<i>52.6</i>	68.2	76.5	78.7	77.6
85°	<i>23.7</i>	36.4	43.1	44.2	43.1
87.5°	<i>6.9</i>	14.5	17.2	17.2	15.5
90°	<i>0.0</i>	0.0	0.0	0.0	0.0
92.5°	<i>5.6</i>	29.6	68.8	20.0	15.1
95°	<i>18.2</i>	72.2	324.3	112.2	69.2
97.5°	<i>33.4</i>	84.5	499.4	357.4	244.9
100°	<i>44.0</i>	91.9	537.4	544.4	419.3
102.5°	<i>55.8</i>	99.8	529.1	696.8	587.6
105°	<i>74.1</i>	112.3	485.7	858.0	815.6
107.5°	<i>92.7</i>	127.0	435.1	903.4	941.1
110°	<i>105.5</i>	137.6	406.1	886.0	970.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	117.8	148.3	386.5	844.9	965.7
115°	137.7	166.4	368.3	780.3	916.2
117.5°	155.2	182.1	357.6	709.6	853.6
120°	169.1	191.7	356.4	669.2	807.2
122.5°	180.3	202.9	353.6	633.7	761.9
125°	194.3	215.5	351.5	583.4	697.5
127.5°	209.5	229.3	350.4	553.3	647.3
130°	217.4	237.2	348.7	532.3	614.3
132.5°	225.7	245.0	348.7	516.0	591.4
135°	237.6	257.4	347.3	492.8	557.0
137.5°	248.8	268.1	347.2	473.1	528.6
140°	257.2	277.0	346.6	456.9	510.2
142.5°	266.7	283.2	348.3	443.9	491.7
145°	280.3	294.6	350.1	426.5	464.8
147.5°	291.9	305.8	353.2	408.9	442.0
150°	301.9	311.5	354.3	403.1	426.3
152.5°	309.7	319.9	355.5	395.2	416.8
155°	320.1	327.6	358.5	385.4	401.2
157.5°	332.9	337.5	359.2	381.0	392.2
160°	339.7	343.1	362.0	377.6	387.2
162.5°	343.6	347.5	362.6	374.8	382.2
165°	353.6	355.0	362.7	370.5	376.0
167.5°	360.5	359.3	365.9	369.5	371.7
170°	362.7	362.0	364.8	365.6	368.3
172.5°	367.8	365.4	366.5	364.4	366.6
175°	370.4	368.4	366.9	364.8	362.0
177.5°	371.5	368.2	366.5	364.3	364.8
180°	367.6	367.6	367.6	367.6	367.6

(END OF REPORT)