

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: P561481

Luminaire Tested: **SQ4-PC3-050U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561481
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5314.9 lumens
Efficiency: N/A
Efficacy: 111.4 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

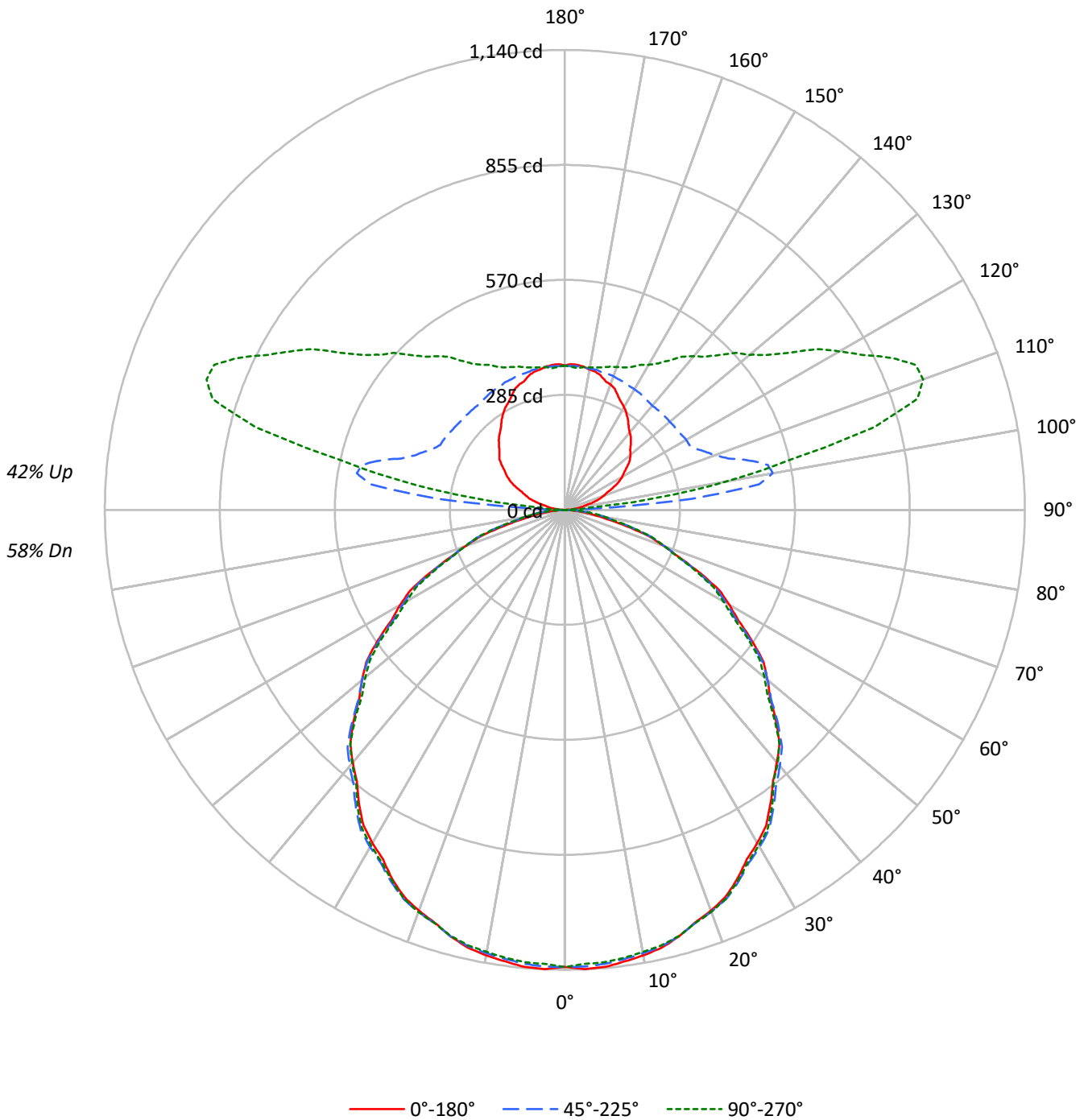
Input Watts (W): 47.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	10453	10453	10453
5°	10532	10465	10426
10°	10507	10458	10428
15°	10451	10451	10442
20°	10383	10414	10414
25°	10285	10359	10328
30°	10159	10283	10238
35°	10008	10162	10091
40°	9844	9982	9881
45°	9665	9732	9582
50°	9412	9412	9261
55°	9112	8995	8860
60°	8673	8499	8363
65°	8016	7855	7787
70°	7019	7076	7046
75°	5647	6245	6285
80°	4011	5297	5350
85°	2445	4446	4446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	2.0
10°-20°	307.7	5.8
20°-30°	466.0	8.8
30°-40°	558.7	10.5
40°-50°	569.6	10.7
50°-60°	497.3	9.4
60°-70°	356.0	6.7
70°-80°	183.4	3.5
80°-90°	46.4	0.9
90°-100°	163.0	3.1
100°-110°	463.9	8.7
110°-120°	444.5	8.4
120°-130°	351.8	6.6
130°-140°	282.4	5.3
140°-150°	221.1	4.2
150°-160°	161.8	3.0
160°-170°	100.2	1.9
170°-180°	34.0	0.6
0°-30°	880.9	16.6
0°-40°	1439.6	27.1
0°-60°	2506.5	47.2
0°-90°	3092.3	58.2
90°-120°	1071.5	20.2
90°-150°	1926.7	36.3
90°-180°	2223.0	41.8
0°-180°	5314.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1137	1126	1130	1127	1126	108
15°	1094	1085	1094	1094	1093	309
25°	1010	1003	1018	1014	1014	465
35°	889	886	902	896	896	556
45°	741	739	746	736	734	570
55°	566	559	559	551	551	505
65°	367	359	360	357	357	363
75°	158	166	175	176	176	171
85°	23	35	42	43	42	31
90°	0	0	0	0	0	2
95°	18	70	316	109	67	20
105°	72	109	473	835	794	76
115°	134	162	358	760	892	132
125°	189	210	342	568	679	169
135°	231	251	338	480	542	178
145°	273	287	341	415	452	170
155°	312	319	349	375	390	144
165°	344	346	353	361	366	97
175°	360	358	357	355	352	34
180°	358	358	358	358	358	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.0	1133.0	1133.0	1133.0	1133.0
2.5°	1139.8	1129.9	1133.0	1130.4	1126.3
5°	1137.2	1126.0	1129.9	1126.7	1125.7
7.5°	1129.1	1117.8	1123.0	1120.8	1119.8
10°	1121.5	1110.2	1116.3	1114.1	1113.1
12.5°	1111.4	1101.0	1107.9	1105.8	1105.6
15°	1094.2	1085.0	1094.2	1094.2	1093.2
17.5°	1072.6	1064.2	1074.1	1074.7	1074.1
20°	1057.5	1048.3	1060.7	1059.6	1060.7
22.5°	1039.0	1031.4	1044.7	1042.0	1043.0
25°	1010.3	1003.1	1017.6	1014.5	1014.5
27.5°	976.3	971.2	987.0	983.6	983.6
30°	953.6	948.5	965.2	961.0	961.0
32.5°	928.5	925.0	940.8	935.8	935.8
35°	888.6	886.5	902.2	895.9	895.9
37.5°	847.5	845.6	859.9	852.2	849.8
40°	817.3	816.2	828.8	820.4	820.4
42.5°	787.0	786.0	796.9	786.8	786.8
45°	740.7	738.6	745.9	736.4	734.4
47.5°	690.1	688.1	692.6	682.3	681.3
50°	655.7	653.6	655.7	646.2	645.2
52.5°	620.4	616.8	617.1	607.6	607.4
55°	566.5	559.3	559.2	550.8	550.8
57.5°	509.4	500.0	500.8	493.7	492.7
60°	470.0	459.7	460.6	454.2	453.2
62.5°	431.4	419.5	422.0	414.8	414.6
65°	367.2	359.0	359.8	356.7	356.7
67.5°	305.5	297.9	303.4	300.9	300.7
70°	260.2	255.1	262.3	262.3	261.2
72.5°	218.2	218.0	227.0	227.0	227.7
75°	158.4	165.6	175.2	176.3	176.3
77.5°	105.8	118.5	129.0	129.5	129.3
80°	75.5	89.9	99.7	101.7	100.7
82.5°	51.2	66.4	74.5	76.6	75.5
85°	23.1	35.4	42.0	43.0	42.0
87.5°	6.7	14.1	16.8	16.7	15.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.4	28.9	66.9	19.5	14.7
95°	17.7	70.2	315.6	109.3	67.3
97.5°	32.5	82.3	486.1	347.8	238.4
100°	42.9	89.4	523.1	529.9	408.2
102.5°	54.3	97.1	515.0	678.3	572.0
105°	72.1	109.4	472.8	835.1	793.9
107.5°	90.2	123.6	423.5	879.3	916.0
110°	102.7	134.0	395.2	862.4	944.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>114.7</i>	144.4	376.2	822.4	940.0
115°	<i>134.0</i>	161.9	358.5	759.5	891.8
117.5°	<i>151.0</i>	177.2	348.0	690.7	830.9
120°	<i>164.6</i>	186.6	346.9	651.3	785.7
122.5°	<i>175.5</i>	197.5	344.2	616.8	741.6
125°	<i>189.1</i>	209.7	342.2	567.8	678.9
127.5°	<i>203.9</i>	223.2	341.1	538.5	630.1
130°	<i>211.6</i>	230.9	339.5	518.1	598.0
132.5°	<i>219.7</i>	238.5	339.5	502.2	575.6
135°	<i>231.3</i>	250.6	338.1	479.6	542.2
137.5°	<i>242.2</i>	260.9	338.0	460.5	514.6
140°	<i>250.3</i>	269.6	337.4	444.7	496.6
142.5°	<i>259.6</i>	275.7	339.0	432.1	478.6
145°	<i>272.8</i>	286.8	340.8	415.1	452.4
147.5°	<i>284.1</i>	297.6	343.8	398.0	430.2
150°	<i>293.9</i>	303.2	344.9	392.3	415.0
152.5°	<i>301.5</i>	311.3	346.0	384.7	405.7
155°	<i>311.6</i>	318.9	349.0	375.2	390.5
157.5°	<i>324.1</i>	328.5	349.7	370.9	381.8
160°	<i>330.6</i>	333.9	352.4	367.6	376.9
162.5°	<i>334.4</i>	338.3	352.9	364.8	372.0
165°	<i>344.2</i>	345.5	353.1	360.7	366.0
167.5°	<i>350.9</i>	349.7	356.2	359.6	361.8
170°	<i>353.1</i>	352.4	355.1	355.8	358.5
172.5°	<i>358.0</i>	355.7	356.7	354.7	356.9
175°	<i>360.5</i>	358.5	357.1	355.0	352.4
177.5°	<i>361.6</i>	358.4	356.7	354.6	355.1
180°	<i>357.8</i>	357.8	357.8	357.8	357.8

(END OF REPORT)