

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: P561675

Luminaire Tested: **SQ4-PC3-125U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561675
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-PC3-125U-050D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7519.5 lumens
Efficiency: N/A
Efficacy: 120.9 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: Semi-Indirect

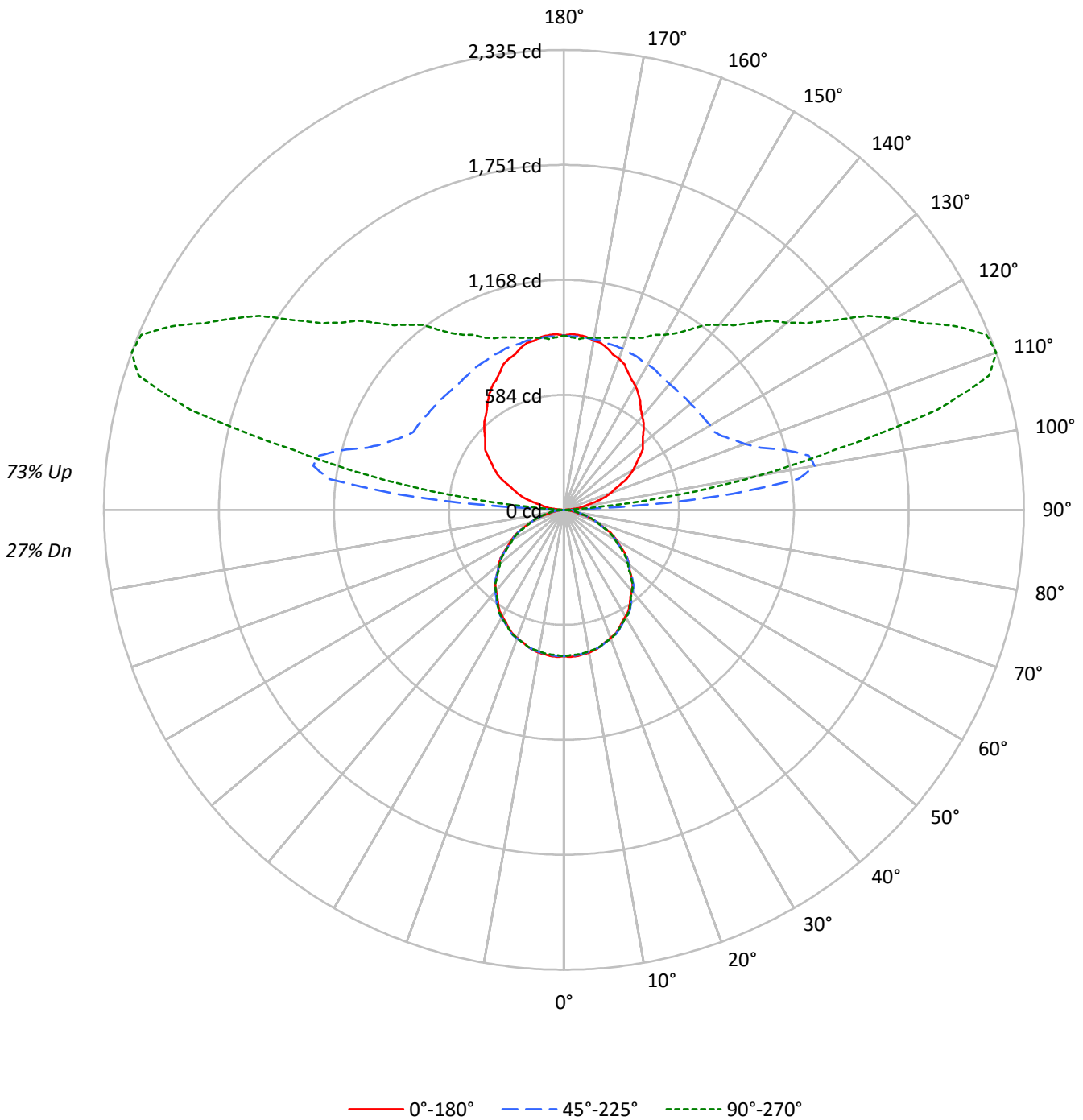
Input Watts (W): 62.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27
1	93	89	85	81	83	79	76	73	62	60	58	46	44	43	31	30	30	23
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25	19
3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	22	21	16
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18	14
5	64	53	45	40	57	48	41	36	38	33	29	28	25	22	19	17	16	12
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14	11
7	55	43	35	30	49	38	32	27	30	26	22	23	20	17	16	14	12	9
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	12	11	8
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	13	11	10	7
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	12	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6855	6855	6855
5°	6906	6862	6836
10°	6890	6858	6838
15°	6853	6853	6847
20°	6808	6829	6829
25°	6744	6793	6772
30°	6662	6743	6713
35°	6563	6663	6617
40°	6454	6546	6480
45°	6337	6382	6283
50°	6172	6172	6073
55°	5976	5899	5810
60°	5687	5573	5484
65°	5257	5152	5106
70°	4602	4640	4621
75°	3704	4096	4121
80°	2630	3475	3507
85°	1598	2911	2911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	0.9
10°-20°	201.8	2.7
20°-30°	305.6	4.1
30°-40°	366.3	4.9
40°-50°	373.5	5.0
50°-60°	326.1	4.3
60°-70°	233.4	3.1
70°-80°	120.2	1.6
80°-90°	30.4	0.4
90°-100°	402.9	5.4
100°-110°	1146.3	15.2
110°-120°	1098.3	14.6
120°-130°	869.3	11.6
130°-140°	697.7	9.3
140°-150°	546.2	7.3
150°-160°	399.7	5.3
160°-170°	247.6	3.3
170°-180°	84.0	1.1
0°-30°	577.7	7.7
0°-40°	944.0	12.6
0°-60°	1643.6	21.9
0°-90°	2027.7	27.0
90°-120°	2647.5	35.2
90°-150°	4760.6	63.3
90°-180°	5492.0	73.0
0°-180°	7519.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	746	738	741	739	738	71
15°	718	712	718	718	717	202
25°	662	658	667	665	665	305
35°	583	581	592	588	588	364
45°	486	484	489	483	482	374
55°	372	367	367	361	361	331
65°	241	235	236	234	234	238
75°	104	109	115	116	116	112
85°	15	23	28	28	28	21
90°	0	0	0	0	0	2
95°	44	174	780	270	166	50
105°	178	270	1168	2063	1962	188
115°	331	400	886	1876	2204	326
125°	467	518	846	1403	1678	418
135°	572	619	835	1185	1340	441
145°	674	708	842	1026	1118	421
155°	770	788	862	927	965	356
165°	850	854	872	891	904	239
175°	891	886	882	877	871	84
180°	884	884	884	884	884	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.0	743.0	743.0	743.0	743.0
2.5°	747.4	740.9	743.0	741.3	738.6
5°	745.7	738.3	740.9	738.8	738.1
7.5°	740.3	732.9	736.4	735.0	734.3
10°	735.4	728.0	732.0	730.6	729.9
12.5°	728.8	721.9	726.5	725.1	724.9
15°	717.5	711.5	717.5	717.5	716.8
17.5°	703.3	697.8	704.3	704.7	704.3
20°	693.4	687.4	695.5	694.8	695.5
22.5°	681.3	676.3	685.0	683.3	683.9
25°	662.5	657.8	667.3	665.2	665.2
27.5°	640.2	636.8	647.2	645.0	645.0
30°	625.3	622.0	632.9	630.1	630.1
32.5°	608.8	606.5	616.9	613.6	613.6
35°	582.7	581.3	591.6	587.5	587.5
37.5°	555.7	554.5	563.8	558.8	557.2
40°	535.9	535.2	543.5	538.0	538.0
42.5°	516.1	515.4	522.6	515.9	515.9
45°	485.7	484.3	489.1	482.9	481.5
47.5°	452.5	451.2	454.2	447.4	446.7
50°	430.0	428.6	430.0	423.7	423.1
52.5°	406.8	404.4	404.6	398.4	398.3
55°	371.5	366.8	366.7	361.2	361.2
57.5°	334.1	327.9	328.4	323.7	323.1
60°	308.2	301.5	302.0	297.9	297.2
62.5°	282.9	275.1	276.7	272.0	271.9
65°	240.8	235.4	236.0	233.9	233.9
67.5°	200.3	195.3	198.9	197.3	197.2
70°	170.6	167.2	172.0	172.0	171.3
72.5°	143.1	143.0	148.9	148.9	149.3
75°	103.9	108.6	114.9	115.6	115.6
77.5°	69.3	77.7	84.6	84.9	84.8
80°	49.5	58.9	65.4	66.7	66.0
82.5°	33.6	43.5	48.8	50.2	49.5
85°	15.1	23.2	27.5	28.2	27.5
87.5°	4.4	9.2	11.0	11.0	9.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.4	71.3	165.4	48.1	36.3
95°	43.7	173.5	779.9	269.9	166.4
97.5°	80.3	203.3	1201.1	859.5	589.0
100°	105.9	220.9	1292.6	1309.2	1008.5
102.5°	134.1	240.0	1272.4	1675.9	1413.2
105°	178.2	270.2	1168.2	2063.4	1961.5
107.5°	222.9	305.4	1046.5	2172.7	2263.4
110°	253.8	331.0	976.6	2130.9	2334.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.4	356.7	929.5	2032.0	2322.6
115°	331.1	400.1	885.8	1876.5	2203.6
117.5°	373.1	437.9	859.9	1706.5	2053.0
120°	406.8	461.0	857.2	1609.4	1941.3
122.5°	433.7	487.9	850.5	1524.1	1832.4
125°	467.3	518.2	845.5	1403.0	1677.5
127.5°	503.9	551.6	842.8	1330.6	1556.8
130°	522.7	570.4	838.7	1280.2	1477.4
132.5°	542.9	589.3	838.7	1240.9	1422.3
135°	571.5	619.1	835.4	1185.1	1339.6
137.5°	598.4	644.7	835.0	1137.9	1271.4
140°	618.5	666.2	833.7	1098.8	1227.0
142.5°	641.4	681.2	837.7	1067.6	1182.6
145°	674.0	708.5	842.1	1025.7	1117.7
147.5°	701.9	735.4	849.5	983.4	1063.0
150°	726.1	749.1	852.2	969.4	1025.3
152.5°	744.9	769.3	854.9	950.5	1002.4
155°	769.8	787.9	862.3	927.0	964.8
157.5°	800.7	811.6	863.9	916.3	943.3
160°	816.9	825.1	870.7	908.2	931.2
162.5°	826.3	835.8	872.0	901.3	919.1
165°	850.5	853.8	872.3	891.1	904.3
167.5°	867.0	864.0	880.1	888.6	893.9
170°	872.3	870.7	877.4	879.2	885.8
172.5°	884.4	878.9	881.4	876.5	881.8
175°	890.8	885.9	882.4	877.2	870.7
177.5°	893.5	885.6	881.4	876.1	877.4
180°	884.1	884.1	884.1	884.1	884.1

(END OF REPORT)