

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: P564919

Luminaire Tested: **SQ4-PW1-100U-050D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564919
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-100U-050D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7096.9 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

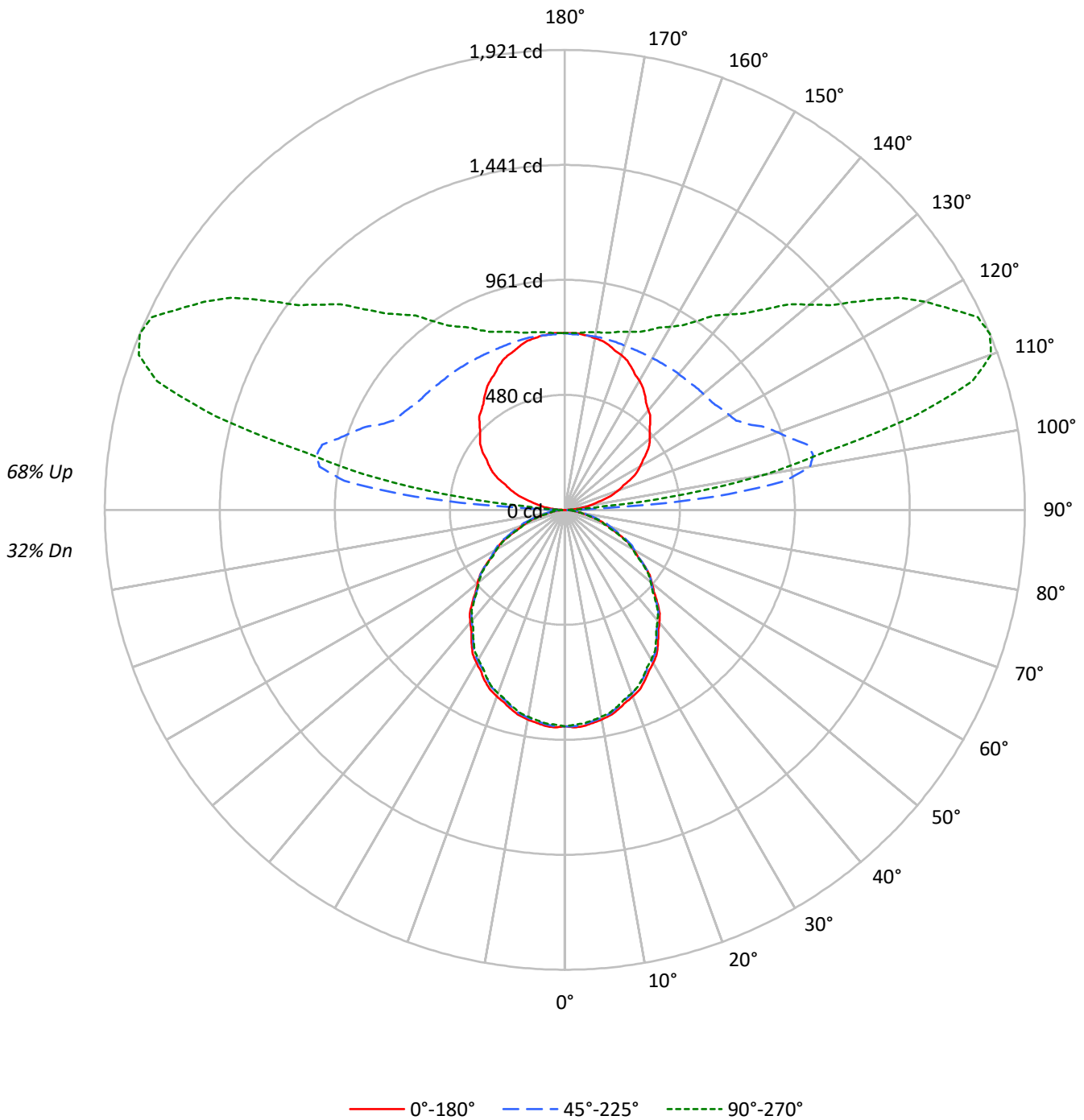
Input Watts (W): 64.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	86	78	72	67	77	71	66	62	57	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	38	35	33	28	26	24	20
4	71	61	53	47	64	55	49	43	44	40	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	35	31	31	27	24	22	20	18	15
6	60	48	41	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5563	5563	5563
5°	5599	5556	5531
10°	5555	5510	5480
15°	5496	5435	5415
20°	5430	5347	5337
25°	5355	5257	5241
30°	5242	5162	5128
35°	5092	5020	4991
40°	4933	4857	4838
45°	4742	4679	4658
50°	4545	4507	4476
55°	4333	4333	4265
60°	4068	4147	4000
65°	3723	3909	3630
70°	3282	3597	3196
75°	2802	3220	2728
80°	2175	2710	2203
85°	1404	2082	1856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	1.2
10°-20°	240.5	3.4
20°-30°	356.7	5.0
30°-40°	417.4	5.9
40°-50°	415.5	5.9
50°-60°	358.8	5.1
60°-70°	258.3	3.6
70°-80°	135.4	1.9
80°-90°	35.1	0.5
90°-100°	345.5	4.9
100°-110°	953.9	13.4
110°-120°	983.8	13.9
120°-130°	790.5	11.1
130°-140°	621.3	8.8
140°-150°	476.5	6.7
150°-160°	342.5	4.8
160°-170°	209.4	3.0
170°-180°	70.6	1.0
0°-30°	682.4	9.6
0°-40°	1099.7	15.5
0°-60°	1874.1	26.4
0°-90°	2302.9	32.4
90°-120°	2283.2	32.2
90°-150°	4171.5	58.8
90°-180°	4794.0	67.6
0°-180°	7096.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	907	897	900	897	896	86
15°	863	852	854	852	850	243
25°	789	776	775	770	772	363
35°	678	669	669	662	665	424
45°	545	540	538	536	536	421
55°	404	403	404	398	398	361
65°	256	264	269	258	249	254
75°	118	129	136	126	115	126
85°	20	26	30	28	26	26
90°	2	5	9	11	12	4
95°	51	187	627	258	168	54
105°	170	262	1050	1602	1509	181
115°	305	368	845	1673	1903	299
125°	418	476	766	1297	1522	372
135°	503	557	745	1050	1184	389
145°	583	624	736	894	962	365
155°	658	680	730	802	828	303
165°	712	721	733	762	767	201
175°	738	739	734	745	742	70
180°	738	738	738	738	738	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	904.5	904.5	904.5	904.5	904.5
2.5°	909.6	902.2	904.5	902.5	898.2
5°	906.9	896.8	899.8	897.3	895.8
7.5°	897.7	888.3	890.5	887.9	887.0
10°	889.4	880.0	882.2	879.0	877.4
12.5°	879.8	869.9	872.0	868.8	867.9
15°	863.1	852.2	853.5	851.9	850.3
17.5°	843.6	832.6	832.8	830.3	829.9
20°	829.6	817.9	816.9	813.7	815.3
22.5°	814.3	802.0	800.9	796.5	798.7
25°	789.0	775.7	774.6	769.9	772.2
27.5°	759.7	746.6	746.6	739.9	742.4
30°	738.0	725.5	726.8	718.9	722.0
32.5°	715.0	703.8	704.5	696.6	699.7
35°	678.2	668.9	668.6	662.3	664.7
37.5°	640.6	632.3	631.0	627.4	628.0
40°	614.4	607.4	604.9	602.5	602.5
42.5°	587.0	580.6	578.1	576.3	575.7
45°	545.1	540.4	537.9	536.3	535.5
47.5°	503.7	499.3	497.1	496.0	495.2
50°	475.0	471.9	471.0	468.6	467.8
52.5°	446.3	444.4	443.6	440.5	439.8
55°	404.1	403.3	404.1	398.5	397.7
57.5°	360.1	361.3	363.9	356.4	354.5
60°	330.7	333.9	337.1	328.3	325.2
62.5°	300.8	305.8	310.3	300.2	295.8
65°	255.8	263.6	268.6	258.0	249.4
67.5°	212.5	222.1	228.1	216.7	207.0
70°	182.5	193.4	200.0	188.6	177.7
72.5°	156.4	168.5	173.9	163.1	152.2
75°	117.9	128.9	135.5	126.4	114.8
77.5°	83.7	94.0	99.5	91.6	81.9
80°	61.4	72.3	76.5	70.0	62.2
82.5°	43.5	52.6	55.5	51.5	46.2
85°	19.9	26.2	29.5	27.9	26.3
87.5°	5.6	10.4	14.0	14.3	15.1
90°	2.4	4.7	9.4	10.7	11.8
92.5°	21.2	88.2	157.7	57.6	44.9
95°	50.8	187.0	626.9	257.7	167.6
97.5°	84.1	209.4	928.6	714.9	517.8
100°	108.6	222.9	1040.0	1047.4	851.2
102.5°	132.2	238.2	1061.8	1294.1	1108.0
105°	170.0	262.3	1049.5	1602.2	1508.7
107.5°	210.1	292.3	990.9	1750.8	1784.9
110°	238.5	312.3	945.6	1782.7	1893.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	264.0	335.1	903.1	1757.5	1920.9
115°	304.6	368.1	845.3	1673.3	1903.0
117.5°	340.0	403.2	807.2	1554.8	1816.1
120°	363.6	425.9	792.1	1474.6	1737.7
122.5°	386.3	445.8	779.9	1399.6	1649.0
125°	417.9	475.6	766.2	1296.6	1521.7
127.5°	444.8	502.5	758.1	1209.5	1403.6
130°	462.8	520.5	754.4	1156.2	1332.8
132.5°	479.8	534.7	750.6	1111.4	1271.4
135°	502.9	557.2	744.9	1050.2	1184.1
137.5°	528.9	578.3	742.1	998.7	1113.0
140°	543.0	591.5	740.2	964.4	1064.8
142.5°	559.1	603.9	738.3	933.9	1022.3
145°	583.2	623.6	735.5	894.0	962.1
147.5°	606.3	641.6	732.9	860.4	913.3
150°	623.3	652.2	731.9	840.3	883.0
152.5°	636.5	663.5	731.0	823.2	858.5
155°	657.6	679.5	729.6	802.2	827.5
157.5°	676.9	693.8	729.8	786.9	804.2
160°	688.2	703.2	730.7	778.3	790.9
162.5°	697.7	710.8	731.7	770.6	780.6
165°	711.9	721.1	733.1	761.6	767.3
167.5°	722.7	728.3	734.3	756.0	757.9
170°	728.4	733.0	734.3	753.2	753.2
172.5°	733.1	735.9	734.3	749.4	748.5
175°	737.8	739.0	734.3	744.9	742.5
177.5°	739.7	738.8	734.0	740.6	738.8
180°	737.8	737.8	737.8	737.8	737.8

(END OF REPORT)