

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: P563622

Luminaire Tested: **SQ4-PP3-100U-100D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563622
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

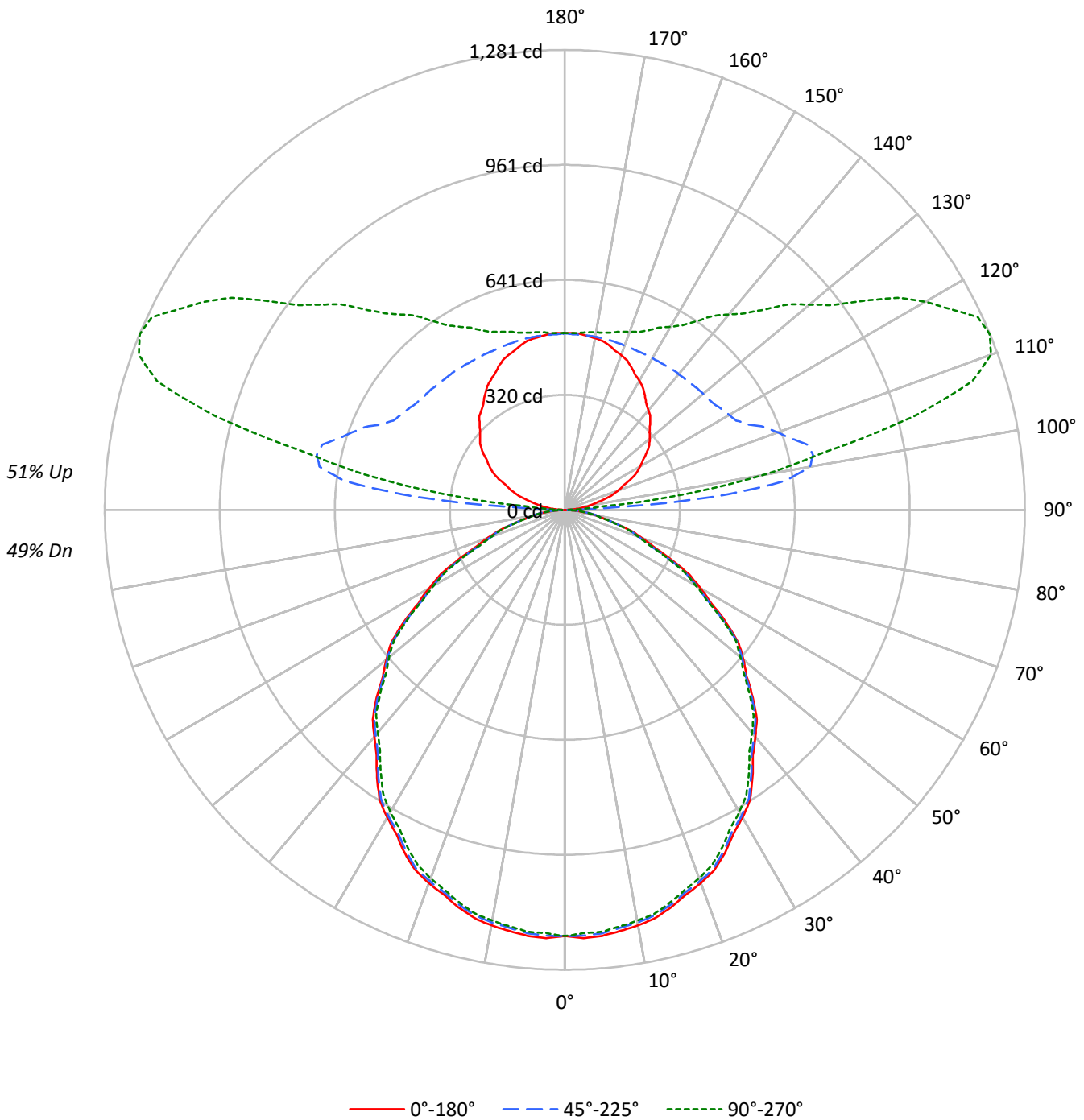
Lumens per Lamp: N/A
Luminaire Lumens: 6234.8 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57.9
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	22	20	17
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10951	10951	10951
5°	11031	10964	10925
10°	11013	10934	10885
15°	10940	10879	10820
20°	10867	10806	10724
25°	10738	10664	10558
30°	10540	10484	10351
35°	10263	10193	10065
40°	9935	9872	9759
45°	9663	9595	9501
50°	9317	9257	9168
55°	8834	8718	8651
60°	8043	7813	7774
65°	7084	6789	6768
70°	6118	5864	5864
75°	5265	5190	5119
80°	4644	4697	4585
85°	3631	3959	3959



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	1.8
10°-20°	320.5	5.1
20°-30°	480.0	7.7
30°-40°	563.0	9.0
40°-50°	564.8	9.1
50°-60°	481.8	7.7
60°-70°	314.2	5.0
70°-80°	157.6	2.5
80°-90°	44.6	0.7
90°-100°	230.4	3.7
100°-110°	635.9	10.2
110°-120°	655.9	10.5
120°-130°	527.0	8.5
130°-140°	414.2	6.6
140°-150°	317.7	5.1
150°-160°	228.3	3.7
160°-170°	139.6	2.2
170°-180°	47.1	0.8
0°-30°	912.7	14.6
0°-40°	1475.7	23.7
0°-60°	2522.3	40.5
0°-90°	3038.8	48.7
90°-120°	1522.1	24.4
90°-150°	2781.0	44.6
90°-180°	3196.0	51.3
0°-180°	6234.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1191	1180	1184	1180	1180	113
15°	1145	1134	1139	1135	1133	323
25°	1055	1043	1048	1038	1037	485
35°	911	902	905	895	894	569
45°	741	736	735	728	728	570
55°	549	547	542	539	538	488
65°	324	318	311	309	310	324
75°	148	148	146	145	144	160
85°	34	37	37	37	37	40
90°	2	3	6	7	8	4
95°	34	125	418	172	112	36
105°	113	175	700	1068	1006	121
115°	203	245	564	1116	1269	200
125°	279	317	511	864	1014	248
135°	335	371	497	700	789	259
145°	389	416	490	596	641	243
155°	438	453	486	535	552	202
165°	475	481	489	508	512	134
175°	492	493	490	497	495	47
180°	492	492	492	492	492	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1186.9	1186.9	1186.9	1186.9	<i>1186.9</i>
2.5°	1194.4	1184.6	1186.9	1185.1	<i>1180.2</i>
5°	1191.1	1179.9	1183.8	1179.6	<i>1179.6</i>
7.5°	1182.9	1170.7	1174.6	1170.5	<i>1170.3</i>
10°	1175.5	1163.2	1167.1	1162.9	<i>1161.9</i>
12.5°	1164.6	1152.4	1157.1	1152.1	<i>1151.9</i>
15°	1145.3	1134.1	1139.0	1134.8	<i>1132.8</i>
17.5°	1123.4	1111.2	1117.2	1111.4	<i>1110.5</i>
20°	1106.8	1094.6	1100.6	1092.2	<i>1092.2</i>
22.5°	1086.8	1074.6	1081.4	1070.6	<i>1070.6</i>
25°	1054.8	1042.6	1047.5	1038.1	<i>1037.1</i>
27.5°	1016.7	1004.7	1009.8	999.2	<i>999.0</i>
30°	989.3	978.1	984.1	972.6	<i>971.6</i>
32.5°	959.3	948.9	953.3	941.8	<i>940.8</i>
35°	911.2	902.1	905.0	894.6	<i>893.6</i>
37.5°	860.7	851.3	854.6	845.7	<i>845.3</i>
40°	824.9	818.8	819.7	812.4	<i>810.3</i>
42.5°	791.6	784.7	785.6	778.3	<i>777.9</i>
45°	740.6	735.6	735.4	728.2	<i>728.2</i>
47.5°	686.5	682.7	681.6	675.5	<i>675.3</i>
50°	649.1	646.0	644.9	639.7	<i>638.7</i>
52.5°	610.0	608.6	605.0	600.6	<i>600.4</i>
55°	549.2	547.2	542.0	538.8	<i>537.8</i>
57.5°	483.3	479.2	473.3	468.7	<i>469.6</i>
60°	435.9	431.8	423.4	421.3	<i>421.3</i>
62.5°	390.1	385.2	376.8	373.9	<i>375.5</i>
65°	324.5	318.4	311.0	309.0	<i>310.0</i>
67.5°	265.0	259.6	251.5	251.5	<i>250.7</i>
70°	226.8	223.7	217.4	217.4	<i>217.4</i>
72.5°	192.6	191.2	186.6	186.6	<i>185.8</i>
75°	147.7	147.7	145.6	144.6	<i>143.6</i>
77.5°	110.7	111.1	110.1	109.0	<i>107.1</i>
80°	87.4	89.4	88.4	87.4	<i>86.3</i>
82.5°	65.7	67.8	67.6	65.7	<i>65.5</i>
85°	34.3	37.4	37.4	37.4	<i>37.4</i>
87.5°	9.5	13.0	14.6	14.8	<i>15.7</i>
90°	1.6	3.1	6.3	7.1	<i>7.9</i>
92.5°	14.2	58.8	105.1	38.4	<i>29.9</i>
95°	33.8	124.6	417.9	171.8	<i>111.8</i>
97.5°	56.0	139.6	619.1	476.6	<i>345.2</i>
100°	72.4	148.6	693.4	698.3	<i>567.4</i>
102.5°	88.1	158.8	707.8	862.7	<i>738.7</i>
105°	113.3	174.9	699.7	1068.1	<i>1005.8</i>
107.5°	140.1	194.9	660.6	1167.2	<i>1190.0</i>
110°	159.0	208.2	630.4	1188.5	<i>1262.4</i>

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.0	223.4	602.1	1171.7	1280.6
115°	203.0	245.4	563.5	1115.5	1268.7
117.5°	226.7	268.8	538.2	1036.5	1210.7
120°	242.4	284.0	528.1	983.0	1158.5
122.5°	257.5	297.2	519.9	933.1	1099.3
125°	278.6	317.1	510.8	864.4	1014.5
127.5°	296.5	335.0	505.4	806.3	935.8
130°	308.5	347.0	502.9	770.8	888.5
132.5°	319.8	356.5	500.4	741.0	847.6
135°	335.3	371.4	496.6	700.1	789.4
137.5°	352.6	385.5	494.7	665.8	742.0
140°	362.0	394.3	493.5	642.9	709.9
142.5°	372.7	402.6	492.2	622.6	681.6
145°	388.8	415.7	490.3	596.0	641.4
147.5°	404.2	427.8	488.6	573.6	608.8
150°	415.5	434.8	487.9	560.2	588.7
152.5°	424.4	442.4	487.3	548.8	572.3
155°	438.4	453.0	486.4	534.8	551.7
157.5°	451.3	462.5	486.5	524.6	536.1
160°	458.8	468.8	487.2	518.8	527.3
162.5°	465.1	473.9	487.8	513.8	520.4
165°	474.6	480.7	488.7	507.7	511.6
167.5°	481.8	485.5	489.5	504.0	505.3
170°	485.6	488.7	489.5	502.1	502.1
172.5°	488.7	490.6	489.5	499.6	499.0
175°	491.9	492.7	489.5	496.6	495.0
177.5°	493.1	492.5	489.4	493.7	492.5
180°	491.9	491.9	491.9	491.9	491.9

(END OF REPORT)