

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: P563279

Luminaire Tested: **SQ4-PP3-050U-050D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563279
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-050D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

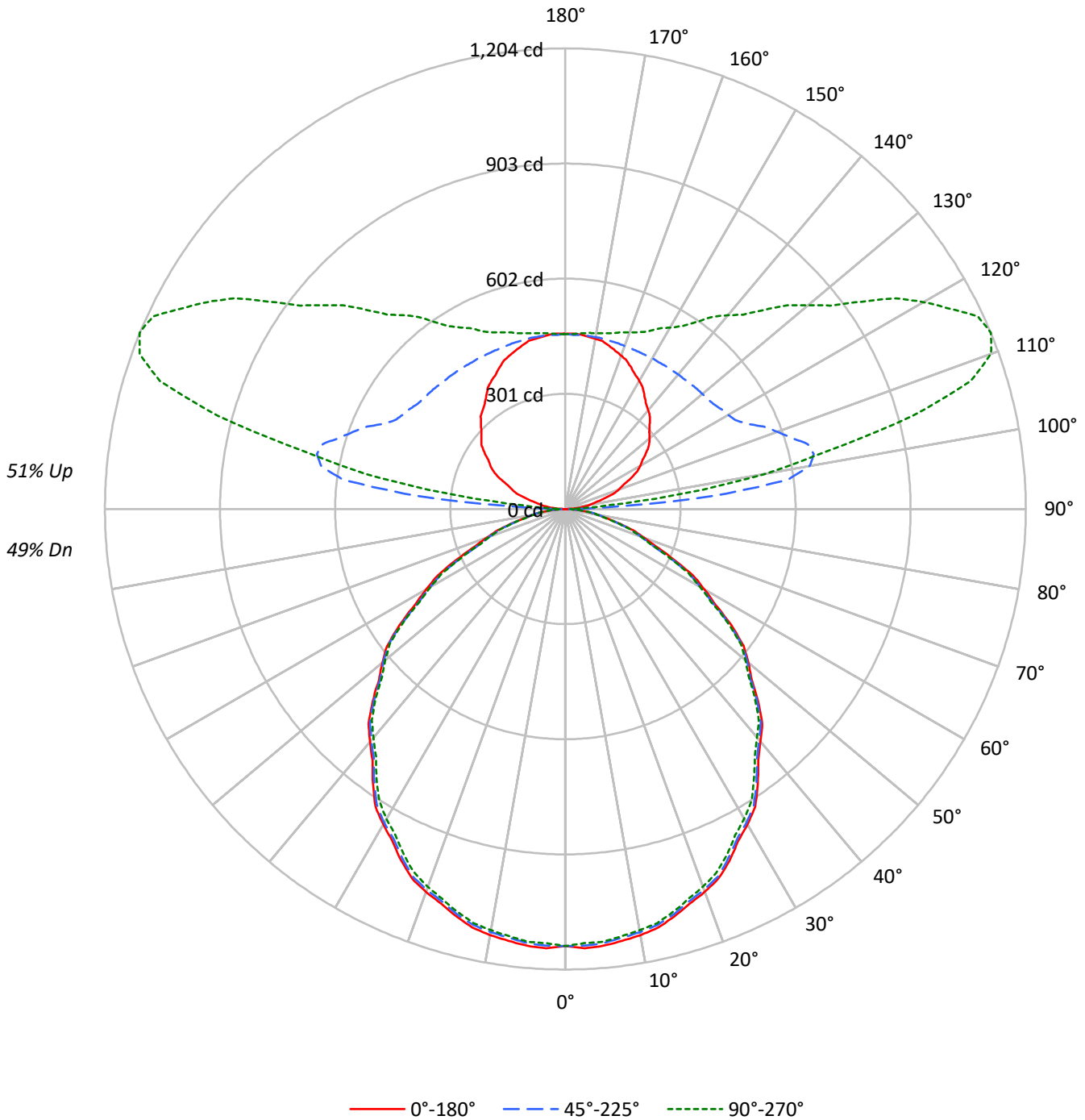
Lumens per Lamp: N/A
Luminaire Lumens: 5913.7 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 44.8
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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49				49
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47				42	
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40				36	
3	82	72	65	59	75	67	61	55	57	52	48	48	44	41	39	36	34				30	
4	75	64	56	50	69	59	52	47	51	45	41	42	38	35	35	32	30				26	
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26				23	
6	63	51	43	37	58	48	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	23	20				18	
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	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	20	24	20	17	20	17	15				13	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7027	7027	7027
5°	7078	7035	7010
10°	7066	7016	6985
15°	7020	6982	6943
20°	6973	6934	6881
25°	6890	6843	6775
30°	6763	6727	6642
35°	6586	6541	6458
40°	6375	6335	6263
45°	6201	6158	6097
50°	5979	5940	5883
55°	5670	5594	5552
60°	5161	5013	4988
65°	4547	4357	4343
70°	3926	3764	3764
75°	3379	3332	3284
80°	2979	3014	2943
85°	2329	2541	2541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.0	1.8
10°-20°	308.5	5.2
20°-30°	462.0	7.8
30°-40°	541.9	9.2
40°-50°	543.6	9.2
50°-60°	463.8	7.8
60°-70°	302.5	5.1
70°-80°	151.7	2.6
80°-90°	43.8	0.7
90°-100°	219.7	3.7
100°-110°	596.8	10.1
110°-120°	613.6	10.4
120°-130°	490.6	8.3
130°-140°	385.5	6.5
140°-150°	295.6	5.0
150°-160°	212.5	3.6
160°-170°	130.0	2.2
170°-180°	43.8	0.7
0°-30°	878.5	14.9
0°-40°	1420.4	24.0
0°-60°	2427.8	41.1
0°-90°	2925.8	49.5
90°-120°	1430.0	24.2
90°-150°	2601.6	44.0
90°-180°	2988.0	50.5
0°-180°	5913.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1146	1136	1139	1135	1135	109
15°	1102	1092	1096	1092	1090	311
25°	1015	1004	1008	999	998	467
35°	877	868	871	861	860	548
45°	713	708	708	701	701	549
55°	529	527	522	519	518	470
65°	312	306	299	297	298	312
75°	142	142	140	139	138	154
85°	33	36	36	36	36	39
90°	2	6	10	13	13	3
95°	32	120	383	166	112	34
105°	106	165	656	999	940	113
115°	188	229	525	1045	1190	186
125°	259	295	475	801	945	231
135°	312	346	462	652	736	241
145°	360	386	456	554	596	226
155°	408	422	453	498	512	188
165°	441	447	455	474	475	125
175°	458	459	456	462	461	43
180°	458	458	458	458	458	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.4	1142.4	1142.4	1142.4	1142.4
2.5°	1149.6	1140.3	1142.4	1140.7	1136.0
5°	1146.4	1135.7	1139.4	1135.4	1135.4
7.5°	1138.6	1126.9	1130.6	1126.6	1126.4
10°	1131.4	1119.7	1123.4	1119.4	1118.4
12.5°	1121.0	1109.3	1113.8	1109.0	1108.8
15°	1102.4	1091.6	1096.4	1092.3	1090.4
17.5°	1081.4	1069.6	1075.4	1069.7	1068.9
20°	1065.3	1053.6	1059.3	1051.3	1051.3
22.5°	1046.1	1034.4	1040.9	1030.5	1030.5
25°	1015.3	1003.5	1008.3	999.2	998.3
27.5°	978.6	967.1	972.0	961.8	961.6
30°	952.2	941.4	947.2	936.2	935.2
32.5°	923.4	913.4	917.6	906.5	905.5
35°	877.1	868.3	871.1	861.1	860.1
37.5°	828.4	819.4	822.6	814.0	813.6
40°	794.0	788.1	789.0	781.9	780.0
42.5°	762.0	755.3	756.2	749.1	748.7
45°	712.9	708.0	707.9	700.9	700.9
47.5°	660.8	657.1	656.0	650.2	650.0
50°	624.8	621.9	620.8	615.8	614.8
52.5°	587.1	585.8	582.3	578.1	577.9
55°	528.7	526.7	521.7	518.6	517.7
57.5°	465.2	461.3	455.6	451.2	452.0
60°	419.5	415.6	407.5	405.5	405.5
62.5°	375.5	370.8	362.7	359.9	361.5
65°	312.4	306.5	299.4	297.4	298.4
67.5°	255.1	249.8	242.1	242.1	241.3
70°	218.3	215.3	209.3	209.3	209.3
72.5°	185.4	184.1	179.6	179.6	178.8
75°	142.2	142.2	140.2	139.2	138.2
77.5°	106.5	106.9	105.9	104.9	103.1
80°	84.1	86.1	85.1	84.1	83.1
82.5°	63.3	65.2	65.1	63.3	63.1
85°	33.0	36.0	36.0	36.0	36.0
87.5°	9.1	13.1	14.9	15.5	16.3
90°	1.5	5.8	10.3	13.2	13.2
92.5°	13.2	60.1	104.5	44.9	38.0
95°	32.4	120.1	382.6	166.5	111.8
97.5°	53.6	132.7	586.5	456.3	320.5
100°	67.7	141.1	648.9	657.8	531.2
102.5°	81.8	149.4	665.4	813.5	701.9
105°	105.9	164.9	656.3	999.2	940.2
107.5°	131.0	183.0	618.3	1095.1	1111.5
110°	148.6	196.1	590.0	1114.0	1184.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.9	209.1	561.8	1098.3	1204.5
115°	188.3	228.6	525.3	1045.1	1190.4
117.5°	211.3	249.9	502.0	969.6	1133.3
120°	226.6	264.0	491.5	918.9	1081.5
122.5°	239.5	277.0	484.4	868.2	1025.0
125°	259.0	294.9	475.3	800.8	944.7
127.5°	276.3	312.0	470.3	749.7	873.1
130°	286.9	321.5	467.9	717.6	828.4
132.5°	297.5	332.1	465.6	690.3	788.4
135°	311.9	346.5	462.0	652.3	735.7
137.5°	327.5	358.9	460.3	618.7	688.9
140°	337.0	367.2	459.1	597.4	660.7
142.5°	346.4	374.3	457.9	580.6	633.6
145°	360.5	386.4	456.1	554.2	595.9
147.5°	376.4	398.5	454.7	533.4	566.2
150°	387.0	405.7	454.7	521.5	547.4
152.5°	395.2	411.6	453.5	510.8	532.1
155°	407.6	422.0	453.2	497.7	512.1
157.5°	419.6	430.9	453.2	488.8	499.7
160°	426.7	436.8	453.2	482.8	491.5
162.5°	433.8	441.5	454.4	478.1	484.4
165°	441.4	447.2	454.7	473.8	475.3
167.5°	449.4	452.2	456.1	468.8	470.0
170°	451.7	454.6	456.1	466.4	466.4
172.5°	454.1	455.8	456.1	464.1	464.1
175°	457.6	459.1	456.1	462.0	460.6
177.5°	458.8	458.8	455.3	459.9	457.6
180°	457.6	457.6	457.6	457.6	457.6

(END OF REPORT)