

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: P561783

Luminaire Tested: **SQ4-PR1-025U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561783
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-025U-050D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4173.6 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

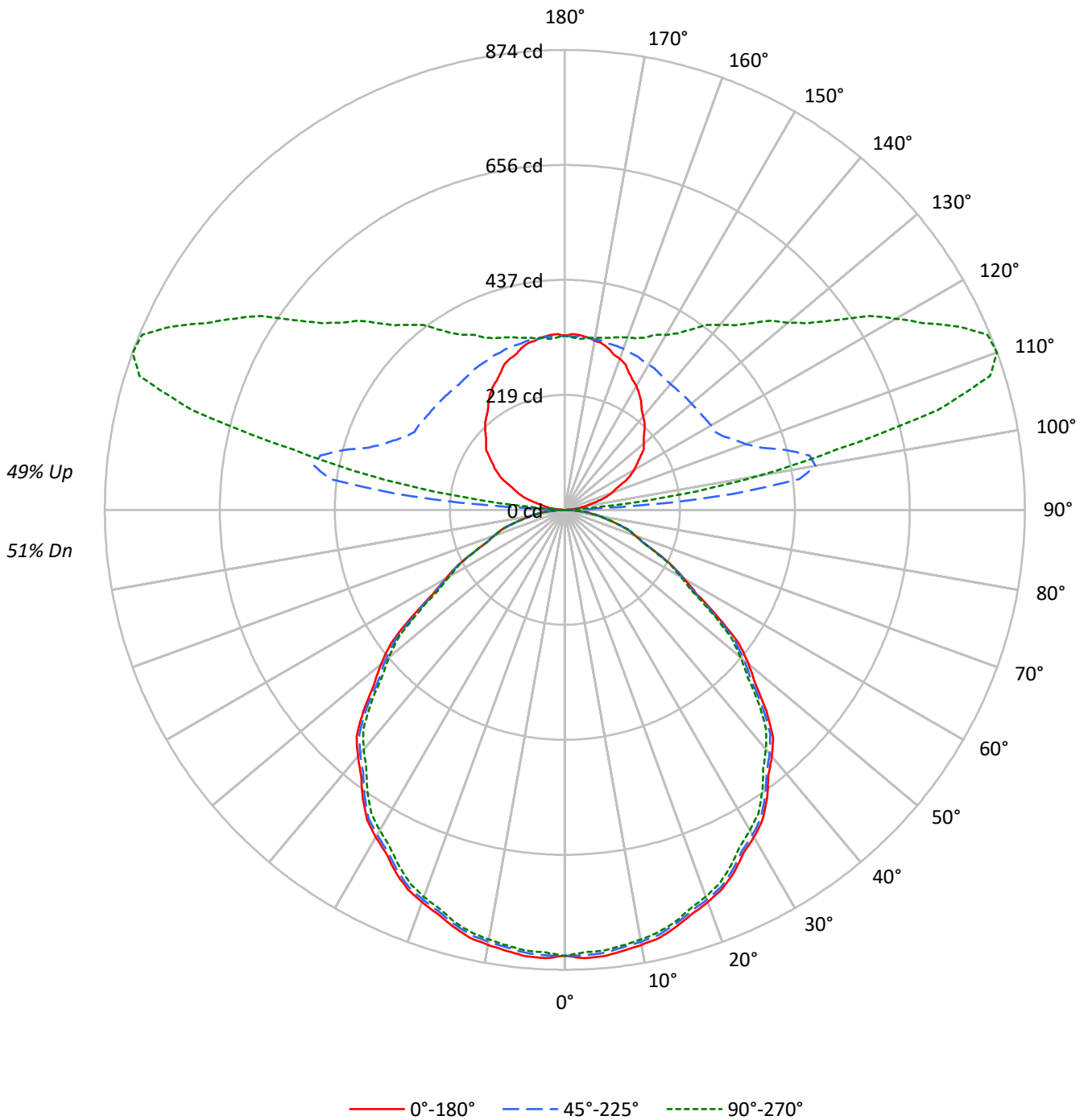
Input Watts (W): 34.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	87	91	87	84	81	74	72	69	62	60	59	51	50	49	43
2	90	82	76	71	83	76	71	67	65	61	58	55	52	49	45	43	41	37
3	82	73	66	60	75	67	61	56	58	53	49	49	45	42	40	38	36	31
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31	27
5	69	58	50	44	64	54	47	41	46	41	36	39	35	32	33	29	27	24
6	64	52	44	38	59	48	41	36	42	36	32	35	31	28	30	26	24	21
7	59	47	39	33	54	44	37	32	38	32	28	32	28	25	27	24	21	19
8	55	42	35	30	50	40	33	28	34	29	25	29	25	22	25	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	27	23	20	23	20	17	15
10	48	36	28	24	44	33	27	22	29	24	20	25	21	18	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7819	7819	7819
5°	7889	7829	7788
10°	7864	7810	7768
15°	7830	7781	7739
20°	7790	7740	7683
25°	7736	7684	7594
30°	7652	7598	7488
35°	7540	7473	7366
40°	7367	7288	7157
45°	7067	6943	6801
50°	6538	6380	6255
55°	5707	5577	5459
60°	4809	4768	4674
65°	4159	4174	4144
70°	3820	3839	3839
75°	3668	3668	3697
80°	3454	3491	3454
85°	2784	3091	3091



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	1.9
10°-20°	229.3	5.5
20°-30°	345.8	8.3
30°-40°	412.1	9.9
40°-50°	406.3	9.7
50°-60°	310.5	7.4
60°-70°	192.1	4.6
70°-80°	109.1	2.6
80°-90°	33.2	0.8
90°-100°	150.8	3.6
100°-110°	428.9	10.3
110°-120°	411.0	9.8
120°-130°	325.3	7.8
130°-140°	261.1	6.3
140°-150°	204.4	4.9
150°-160°	149.6	3.6
160°-170°	92.6	2.2
170°-180°	31.4	0.8
0°-30°	655.3	15.7
0°-40°	1067.3	25.6
0°-60°	1784.1	42.7
0°-90°	2118.6	50.8
90°-120°	990.7	23.7
90°-150°	1781.4	42.7
90°-180°	2055.0	49.2
0°-180°	4173.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	852	843	845	842	841	81
15°	820	811	815	812	810	231
25°	760	751	755	747	746	350
35°	669	662	664	655	654	418
45°	542	534	532	523	521	415
55°	355	349	347	341	339	318
65°	190	189	191	190	190	193
75°	103	103	103	104	104	109
85°	26	28	29	29	29	31
90°	0	0	0	0	0	2
95°	16	65	292	101	62	19
105°	67	101	437	772	734	71
115°	124	150	332	702	825	122
125°	175	194	316	525	628	157
135°	214	232	313	444	501	165
145°	252	265	315	384	418	158
155°	288	295	323	347	361	133
165°	318	320	326	334	338	90
175°	333	332	330	328	326	32
180°	331	331	331	331	331	



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CATALOG NUMBER: SQ4-PR1-025U-050D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	847.5	847.5	847.5	847.5	847.5
2.5°	852.7	845.3	847.5	845.6	841.6
5°	851.8	842.6	845.3	842.3	840.9
7.5°	845.3	836.1	838.8	835.9	835.1
10°	839.4	830.9	833.6	830.6	829.2
12.5°	833.0	823.9	827.2	823.6	822.2
15°	819.7	811.2	814.6	811.7	810.2
17.5°	805.1	796.0	799.4	796.0	794.2
20°	793.4	784.9	788.3	783.2	782.5
22.5°	780.6	772.0	775.5	768.6	768.5
25°	759.9	750.6	754.8	746.7	746.0
27.5°	735.2	726.6	730.1	721.9	721.0
30°	718.3	709.7	713.2	704.4	702.9
32.5°	699.0	691.0	693.9	685.1	684.2
35°	669.4	661.5	663.5	654.7	654.0
37.5°	635.6	628.5	629.6	620.0	619.3
40°	611.7	604.6	605.1	594.9	594.2
42.5°	585.4	578.3	577.7	567.4	566.7
45°	541.6	534.5	532.1	522.6	521.2
47.5°	491.7	484.5	480.2	472.4	471.4
50°	455.5	448.3	444.5	437.9	435.8
52.5°	416.4	409.2	406.0	400.0	397.8
55°	354.8	349.0	346.7	340.8	339.4
57.5°	296.2	292.4	291.7	286.0	285.4
60°	260.6	258.4	258.4	253.3	253.3
62.5°	230.2	228.7	229.8	226.4	225.8
65°	190.5	189.1	191.2	189.8	189.8
67.5°	159.1	159.1	160.4	159.9	159.9
70°	141.6	141.6	142.3	142.3	142.3
72.5°	125.8	125.3	127.2	127.1	126.6
75°	102.9	102.9	102.9	103.7	103.7
77.5°	80.1	80.3	80.9	80.7	80.1
80°	65.0	65.7	65.7	65.0	65.0
82.5°	49.8	50.5	50.5	50.4	49.8
85°	26.3	27.7	29.2	29.2	29.2
87.5°	7.6	9.9	11.7	11.7	11.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.0	26.7	61.9	18.0	13.6
95°	16.4	64.9	291.8	101.0	62.3
97.5°	30.1	76.1	449.5	321.6	220.4
100°	39.6	82.7	483.7	489.9	377.4
102.5°	50.2	89.8	476.1	627.1	528.8
105°	66.7	101.1	437.1	772.1	734.0
107.5°	83.4	114.3	391.6	813.0	847.0
110°	95.0	123.9	365.4	797.4	873.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.0	133.5	347.8	760.4	869.1
115°	123.9	149.7	331.5	702.2	824.6
117.5°	139.6	163.9	321.8	638.6	768.2
120°	152.2	172.5	320.8	602.2	726.4
122.5°	162.3	182.6	318.3	570.3	685.7
125°	174.8	193.9	316.4	525.0	627.7
127.5°	188.6	206.4	315.4	497.9	582.5
130°	195.6	213.4	313.8	479.1	552.9
132.5°	203.2	220.5	313.8	464.3	532.2
135°	213.8	231.7	312.6	443.5	501.3
137.5°	223.9	241.3	312.5	425.8	475.7
140°	231.5	249.3	312.0	411.2	459.1
142.5°	240.0	254.9	313.5	399.5	442.5
145°	252.2	265.1	315.1	383.8	418.3
147.5°	262.7	275.2	317.9	368.0	397.8
150°	271.7	280.3	318.9	362.8	383.7
152.5°	278.8	287.9	319.9	355.7	375.1
155°	288.1	294.8	322.7	346.9	361.0
157.5°	299.6	303.7	323.3	342.9	353.0
160°	305.7	308.7	325.8	339.8	348.4
162.5°	309.2	312.8	326.3	337.3	343.9
165°	318.3	319.5	326.4	333.5	338.4
167.5°	324.4	323.3	329.3	332.5	334.5
170°	326.4	325.8	328.3	329.0	331.5
172.5°	331.0	328.9	329.8	328.0	329.9
175°	333.3	331.5	330.2	328.3	325.8
177.5°	334.4	331.4	329.8	327.8	328.3
180°	330.8	330.8	330.8	330.8	330.8

(END OF REPORT)