

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: P523687

Luminaire Tested: **SQ4-PP3-050U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523687
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-075D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5285.7 lumens
Efficiency: N/A
Efficacy: 110.8 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

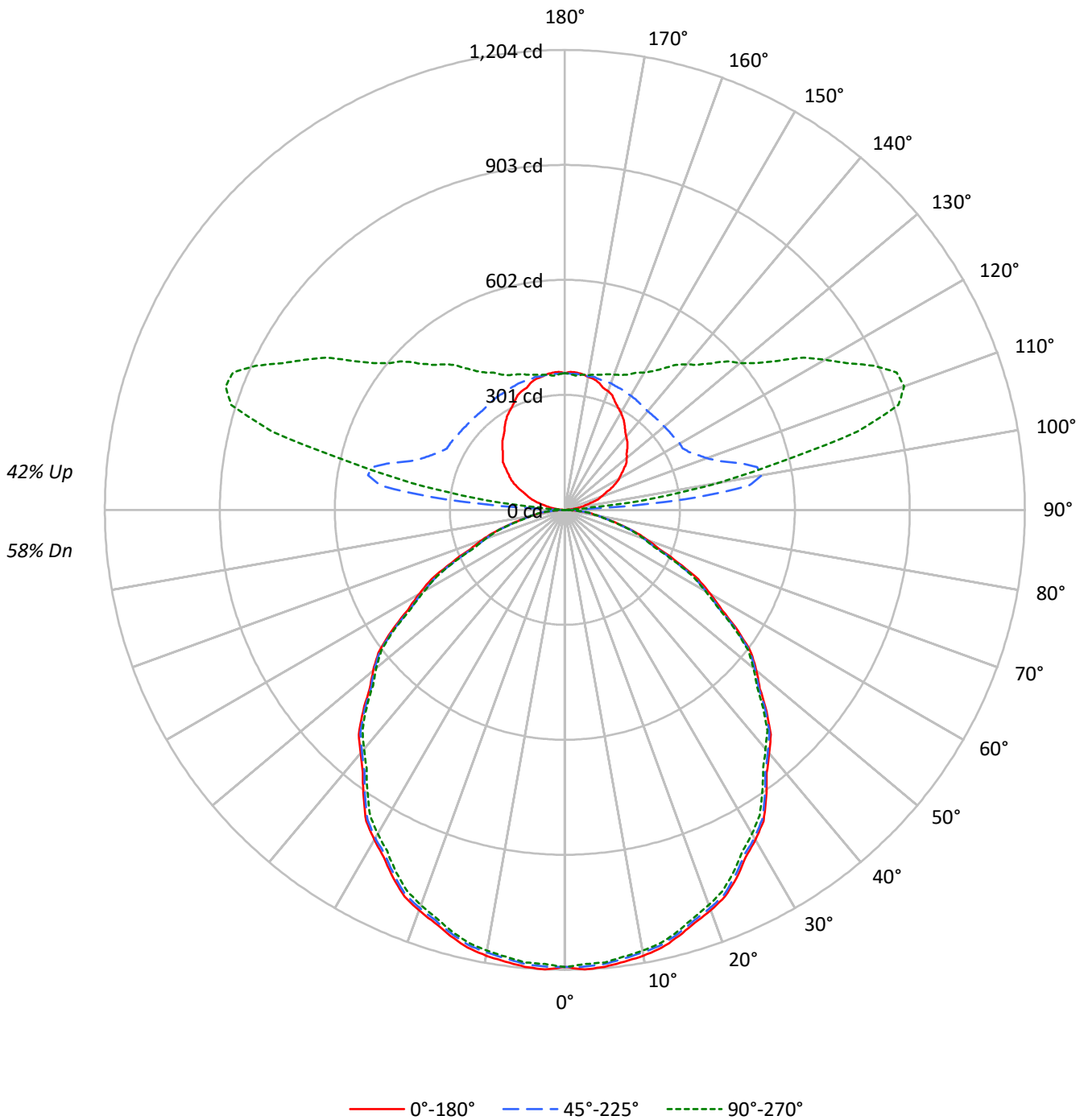
Input Watts (W): 47.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	96	92	88	93	89	86	83	77	75	73	66	65	63	56	55	54	49
2	91	84	78	72	85	78	73	68	68	64	61	59	56	53	50	48	46	42
3	83	74	66	61	77	69	63	57	60	55	51	52	48	45	44	42	39	35
4	76	65	57	51	71	61	54	49	54	48	44	46	42	39	40	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	32	30	27
6	65	52	44	38	60	49	42	37	43	37	33	38	33	30	33	29	26	23
7	60	47	39	34	56	45	37	32	39	33	29	34	30	26	30	26	23	21
8	55	43	35	30	52	41	33	29	36	30	26	31	27	23	27	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11042	11042	11042
5°	11122	11054	11016
10°	11104	11025	10976
15°	11030	10970	10910
20°	10957	10895	10813
25°	10826	10752	10645
30°	10627	10570	10436
35°	10349	10278	10148
40°	10017	9954	9841
45°	9744	9675	9580
50°	9394	9334	9244
55°	8908	8791	8723
60°	8110	7877	7839
65°	7143	6846	6824
70°	6169	5913	5913
75°	5308	5233	5158
80°	4681	4739	4628
85°	3663	4001	4001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	2.1
10°-20°	323.1	6.1
20°-30°	484.0	9.2
30°-40°	567.7	10.7
40°-50°	569.5	10.8
50°-60°	485.8	9.2
60°-70°	316.8	6.0
70°-80°	158.9	3.0
80°-90°	44.0	0.8
90°-100°	163.0	3.1
100°-110°	463.9	8.8
110°-120°	444.5	8.4
120°-130°	351.8	6.7
130°-140°	282.4	5.3
140°-150°	221.1	4.2
150°-160°	161.8	3.1
160°-170°	100.2	1.9
170°-180°	34.0	0.6
0°-30°	920.3	17.4
0°-40°	1488.0	28.2
0°-60°	2543.2	48.1
0°-90°	3063.0	57.9
90°-120°	1071.5	20.3
90°-150°	1926.7	36.5
90°-180°	2223.0	42.1
0°-180°	5285.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1197	1197	1197	1197	1197	
5°	1201	1190	1194	1189	1189	114
15°	1155	1144	1148	1144	1142	326
25°	1064	1051	1056	1047	1046	489
35°	919	910	912	902	901	574
45°	747	742	742	734	734	575
55°	554	552	546	543	542	492
65°	327	321	314	312	313	327
75°	149	149	147	146	145	162
85°	35	38	38	38	38	41
90°	0	0	0	0	0	2
95°	18	70	316	109	67	20
105°	72	109	473	835	794	76
115°	134	162	358	760	892	132
125°	189	210	342	568	679	169
135°	231	251	338	480	542	178
145°	273	287	341	415	452	170
155°	312	319	349	375	390	144
165°	344	346	353	361	366	97
175°	360	358	357	355	352	34
180°	358	358	358	358	358	



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CATALOG NUMBER: SQ4-PP3-050U-075D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1196.8	1196.8	1196.8	1196.8	1196.8
2.5°	1204.3	1194.5	1196.8	1195.0	1190.0
5°	1200.9	1189.7	1193.6	1189.4	1189.4
7.5°	1192.8	1180.5	1184.4	1180.2	1180.0
10°	1185.2	1172.9	1176.8	1172.6	1171.6
12.5°	1174.3	1162.0	1166.8	1161.7	1161.5
15°	1154.8	1143.5	1148.5	1144.3	1142.2
17.5°	1132.8	1120.5	1126.5	1120.6	1119.8
20°	1116.0	1103.7	1109.7	1101.3	1101.3
22.5°	1095.9	1083.5	1090.4	1079.5	1079.5
25°	1063.5	1051.2	1056.2	1046.7	1045.7
27.5°	1025.2	1013.1	1018.2	1007.5	1007.3
30°	997.5	986.2	992.2	980.7	979.6
32.5°	967.3	956.8	961.2	949.6	948.6
35°	918.8	909.6	912.5	902.0	901.0
37.5°	867.8	858.4	861.7	852.7	852.3
40°	831.7	825.6	826.5	819.1	817.1
42.5°	798.2	791.2	792.1	784.7	784.3
45°	746.8	741.7	741.5	734.2	734.2
47.5°	692.2	688.4	687.2	681.1	680.9
50°	654.5	651.4	650.3	645.0	644.0
52.5°	615.1	613.6	610.0	605.6	605.4
55°	553.8	551.7	546.5	543.3	542.3
57.5°	487.3	483.2	477.2	472.6	473.5
60°	439.5	435.4	426.9	424.8	424.8
62.5°	393.3	388.4	379.9	377.0	378.6
65°	327.2	321.1	313.6	311.5	312.6
67.5°	267.3	261.7	253.6	253.6	252.8
70°	228.7	225.6	219.2	219.2	219.2
72.5°	194.2	192.8	188.2	188.1	187.3
75°	148.9	148.9	146.8	145.8	144.7
77.5°	111.6	112.0	111.0	109.9	108.0
80°	88.1	90.2	89.2	88.1	87.1
82.5°	66.3	68.3	68.2	66.3	66.1
85°	34.6	37.7	37.8	37.8	37.8
87.5°	9.2	12.5	13.4	13.4	14.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.4	28.9	66.9	19.5	14.7
95°	17.7	70.2	315.6	109.3	67.3
97.5°	32.5	82.3	486.1	347.8	238.4
100°	42.9	89.4	523.1	529.9	408.2
102.5°	54.3	97.1	515.0	678.3	572.0
105°	72.1	109.4	472.8	835.1	793.9
107.5°	90.2	123.6	423.5	879.3	916.0
110°	102.7	134.0	395.2	862.4	944.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	114.7	144.4	376.2	822.4	940.0
115°	134.0	161.9	358.5	759.5	891.8
117.5°	151.0	177.2	348.0	690.7	830.9
120°	164.6	186.6	346.9	651.3	785.7
122.5°	175.5	197.5	344.2	616.8	741.6
125°	189.1	209.7	342.2	567.8	678.9
127.5°	203.9	223.2	341.1	538.5	630.1
130°	211.6	230.9	339.5	518.1	598.0
132.5°	219.7	238.5	339.5	502.2	575.6
135°	231.3	250.6	338.1	479.6	542.2
137.5°	242.2	260.9	338.0	460.5	514.6
140°	250.3	269.6	337.4	444.7	496.6
142.5°	259.6	275.7	339.0	432.1	478.6
145°	272.8	286.8	340.8	415.1	452.4
147.5°	284.1	297.6	343.8	398.0	430.2
150°	293.9	303.2	344.9	392.3	415.0
152.5°	301.5	311.3	346.0	384.7	405.7
155°	311.6	318.9	349.0	375.2	390.5
157.5°	324.1	328.5	349.7	370.9	381.8
160°	330.6	333.9	352.4	367.6	376.9
162.5°	334.4	338.3	352.9	364.8	372.0
165°	344.2	345.5	353.1	360.7	366.0
167.5°	350.9	349.7	356.2	359.6	361.8
170°	353.1	352.4	355.1	355.8	358.5
172.5°	358.0	355.7	356.7	354.7	356.9
175°	360.5	358.5	357.1	355.0	352.4
177.5°	361.6	358.4	356.7	354.6	355.1
180°	357.8	357.8	357.8	357.8	357.8

(END OF REPORT)