

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: P563384

Luminaire Tested: **SQ4-PP3-075U-050D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563384
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-050D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

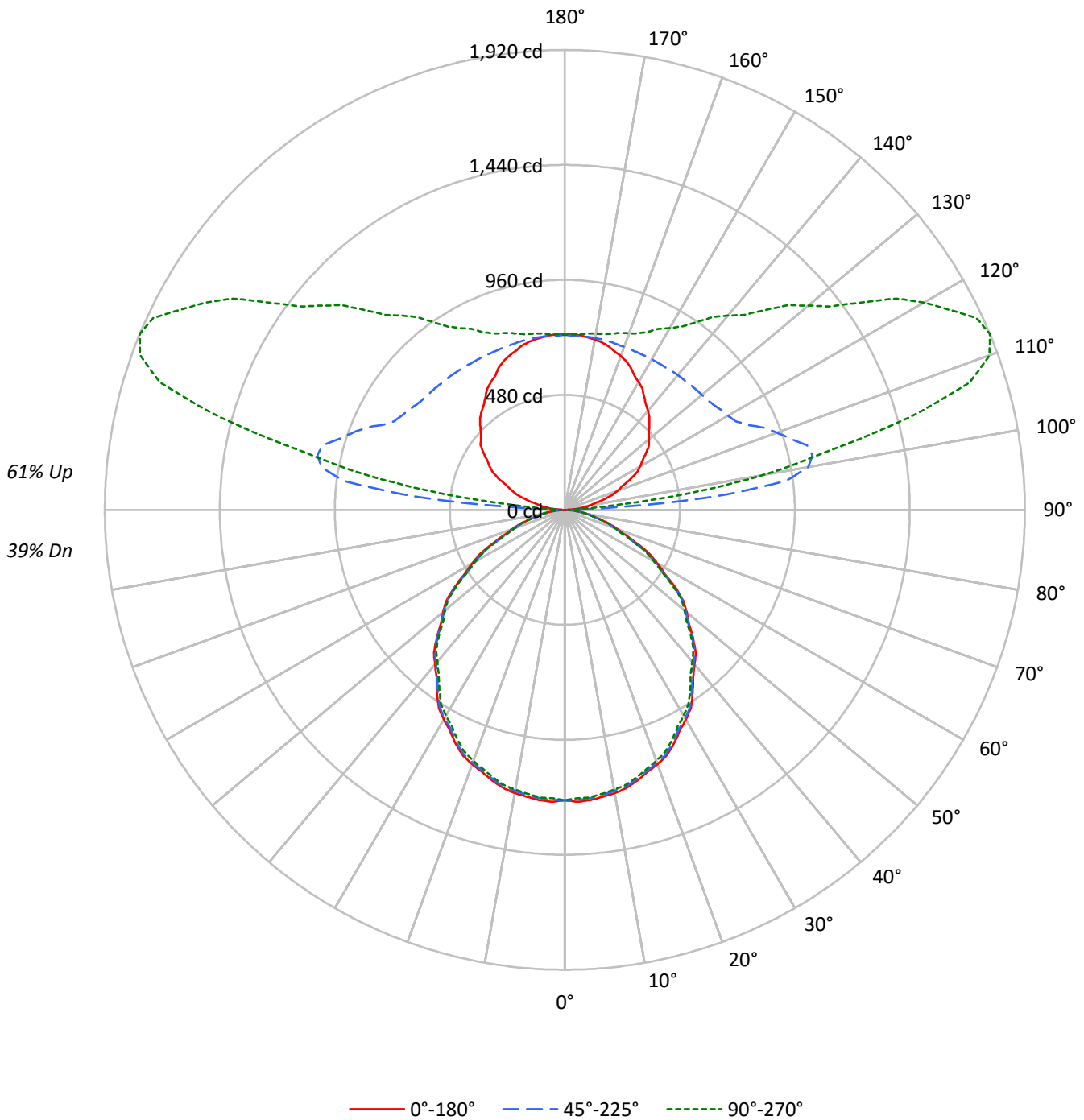
Lumens per Lamp: N/A
Luminaire Lumens: 7868.9 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 71.8
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39				
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34				
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28				
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24				
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21				
5	67	55	47	42	60	51	44	39	42	37	33	34	30	27	26	24	22	18				
6	61	50	42	36	56	46	39	34	38	33	29	30	27	24	24	21	19	16				
7	57	45	37	32	51	41	34	29	34	29	25	28	24	21	22	19	17	14				
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	13				
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	16	14	11				
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5592	5592	5592
5°	5633	5598	5579
10°	5623	5584	5558
15°	5586	5556	5525
20°	5549	5518	5476
25°	5483	5445	5391
30°	5382	5353	5285
35°	5241	5205	5139
40°	5073	5041	4984
45°	4935	4900	4851
50°	4757	4727	4681
55°	4511	4452	4417
60°	4107	3989	3969
65°	3618	3467	3456
70°	3124	2994	2994
75°	2690	2650	2613
80°	2370	2399	2343
85°	1858	2022	2022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	1.5
10°-20°	327.3	4.2
20°-30°	490.2	6.2
30°-40°	575.0	7.3
40°-50°	576.8	7.3
50°-60°	492.1	6.3
60°-70°	320.9	4.1
70°-80°	161.0	2.0
80°-90°	46.4	0.6
90°-100°	344.9	4.4
100°-110°	949.1	12.1
110°-120°	979.6	12.4
120°-130°	784.8	10.0
130°-140°	616.4	7.8
140°-150°	472.4	6.0
150°-160°	339.7	4.3
160°-170°	207.7	2.6
170°-180°	70.0	0.9
0°-30°	932.1	11.8
0°-40°	1507.1	19.2
0°-60°	2576.0	32.7
0°-90°	3104.2	39.4
90°-120°	2273.6	28.9
90°-150°	4147.3	52.7
90°-180°	4765.0	60.6
0°-180°	7868.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1212	1212	1212	1212	1212	
5°	1216	1205	1209	1205	1205	116
15°	1170	1158	1163	1159	1157	330
25°	1077	1065	1070	1060	1059	495
35°	931	921	924	914	913	581
45°	756	751	751	744	744	582
55°	561	559	554	550	549	498
65°	332	325	318	316	317	331
75°	151	151	149	148	147	164
85°	35	38	38	38	38	41
90°	2	6	11	14	14	5
95°	51	188	610	261	166	54
105°	170	261	1046	1593	1486	179
115°	300	366	839	1670	1895	296
125°	414	472	761	1287	1508	369
135°	500	554	739	1041	1178	385
145°	577	617	728	887	956	362
155°	654	675	724	797	820	300
165°	706	716	727	756	761	199
175°	731	733	728	738	736	69
180°	731	731	731	731	731	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1212.1	1212.1	1212.1	1212.1	1212.1
2.5°	1219.8	1209.8	1212.1	1210.3	1205.3
5°	1216.4	1205.0	1208.9	1204.7	1204.7
7.5°	1208.1	1195.6	1199.6	1195.3	1195.1
10°	1200.5	1188.0	1192.0	1187.7	1186.6
12.5°	1189.4	1176.9	1181.8	1176.6	1176.4
15°	1169.6	1158.2	1163.3	1159.0	1156.9
17.5°	1147.3	1134.9	1141.0	1135.0	1134.2
20°	1130.3	1117.9	1124.0	1115.5	1115.5
22.5°	1109.9	1097.5	1104.4	1093.4	1093.4
25°	1077.2	1064.8	1069.8	1060.2	1059.2
27.5°	1038.3	1026.1	1031.3	1020.5	1020.3
30°	1010.3	998.9	1005.0	993.3	992.2
32.5°	979.7	969.1	973.5	961.8	960.8
35°	930.6	921.3	924.2	913.6	912.6
37.5°	879.0	869.4	872.8	863.7	863.3
40°	842.4	836.2	837.1	829.6	827.6
42.5°	808.4	801.4	802.3	794.8	794.4
45°	756.4	751.2	751.1	743.6	743.6
47.5°	701.1	697.2	696.0	689.9	689.7
50°	662.9	659.8	658.7	653.3	652.3
52.5°	623.0	621.5	617.9	613.4	613.2
55°	560.9	558.8	553.5	550.3	549.2
57.5°	493.6	489.4	483.4	478.7	479.5
60°	445.1	441.0	432.4	430.2	430.2
62.5°	398.4	393.4	384.8	381.8	383.5
65°	331.5	325.2	317.6	315.5	316.6
67.5°	270.7	265.1	256.9	256.9	256.0
70°	231.6	228.5	222.0	222.0	222.0
72.5°	196.7	195.3	190.6	190.6	189.7
75°	150.9	150.9	148.7	147.6	146.6
77.5°	113.0	113.4	112.4	111.3	109.4
80°	89.2	91.3	90.3	89.2	88.2
82.5°	67.1	69.2	69.1	67.1	66.9
85°	35.1	38.2	38.2	38.2	38.2
87.5°	9.7	13.9	15.8	16.4	17.2
90°	1.6	6.1	10.9	14.0	14.0
92.5°	21.5	91.8	159.0	61.1	50.1
95°	51.4	188.3	610.0	260.8	166.5
97.5°	83.7	208.8	930.9	717.2	506.1
100°	107.4	221.5	1031.7	1041.4	849.6
102.5°	129.8	236.6	1057.9	1291.9	1116.1
105°	169.6	260.9	1045.7	1592.6	1486.1
107.5°	207.6	291.0	986.3	1739.8	1771.5
110°	235.0	311.1	941.5	1776.5	1886.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	259.9	333.5	896.6	1752.9	1919.6
115°	300.3	365.8	838.8	1670.2	1895.4
117.5°	338.9	399.2	802.0	1554.1	1808.8
120°	362.6	420.4	785.8	1467.2	1730.4
122.5°	383.7	441.6	774.6	1390.9	1640.8
125°	413.9	471.7	760.9	1287.3	1507.9
127.5°	442.6	497.6	751.9	1200.7	1394.3
130°	457.5	513.8	746.9	1149.3	1325.8
132.5°	474.9	531.2	743.2	1104.1	1263.6
135°	499.5	554.3	739.2	1041.0	1178.0
137.5°	522.5	573.4	735.7	990.1	1103.0
140°	540.0	587.1	734.5	956.2	1058.2
142.5°	554.9	598.4	732.0	926.0	1013.3
145°	577.3	616.9	728.3	887.0	955.5
147.5°	601.3	635.4	726.4	852.4	907.2
150°	616.2	646.7	725.2	833.5	876.1
152.5°	629.9	657.9	723.9	817.1	852.4
155°	653.6	674.9	723.6	797.3	820.1
157.5°	670.7	688.0	723.6	780.9	796.7
160°	683.1	696.8	723.6	772.1	784.3
162.5°	693.1	704.4	724.8	764.6	774.3
165°	706.5	715.6	726.7	756.4	760.9
167.5°	715.8	722.8	728.3	749.5	750.7
170°	722.0	726.6	728.3	746.9	746.9
172.5°	727.0	729.2	728.3	743.2	742.0
175°	731.4	732.9	728.3	737.6	736.0
177.5°	732.6	732.6	727.6	735.1	732.6
180°	731.4	731.4	731.4	731.4	731.4

(END OF REPORT)