

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: P563288

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563288
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-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

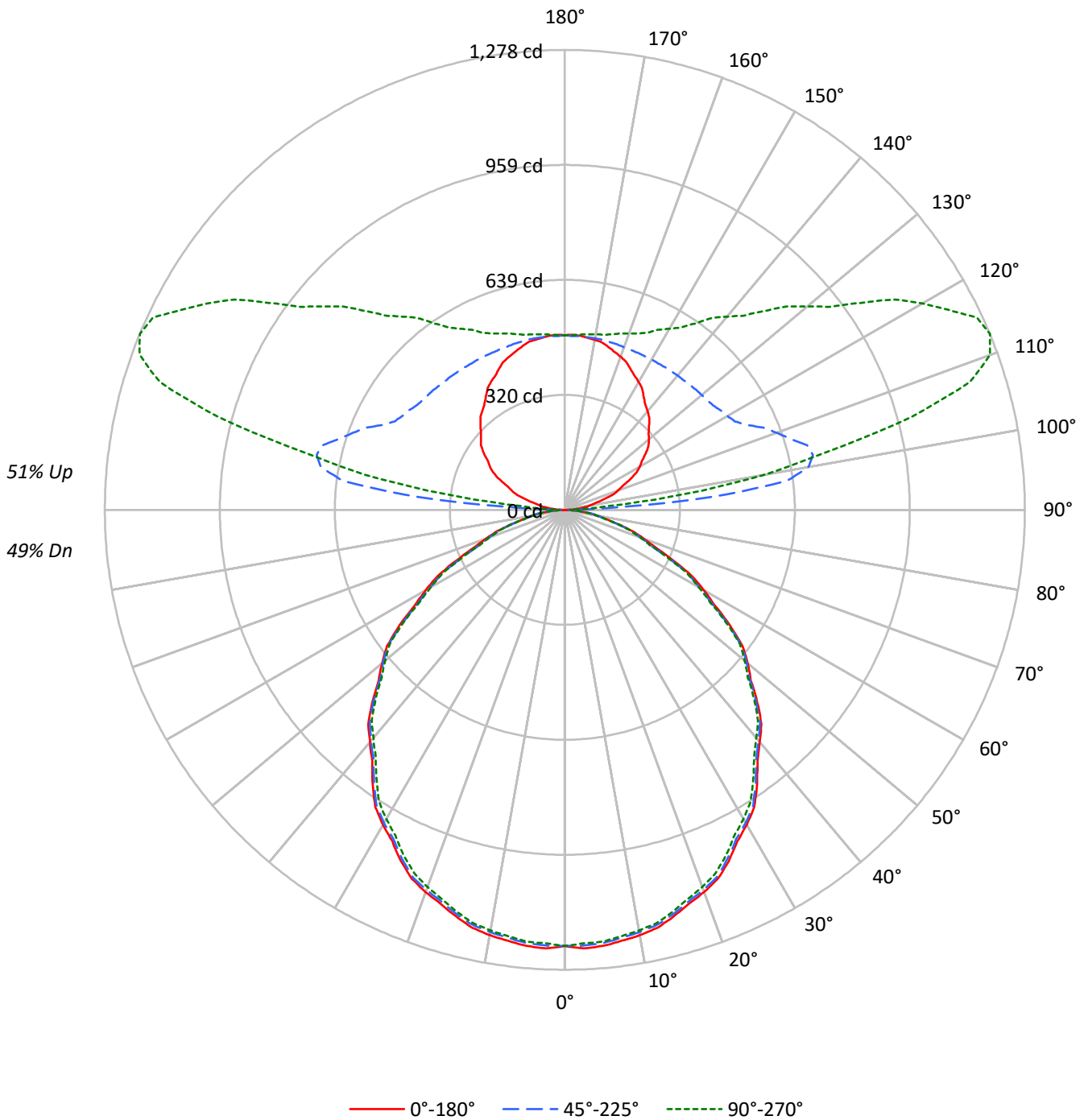
Lumens per Lamp: N/A
Luminaire Lumens: 6274.4 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.9
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			
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	83	83	83	69	69	69	56	56	56	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°	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	1.8
10°-20°	327.3	5.2
20°-30°	490.2	7.8
30°-40°	575.0	9.2
40°-50°	576.8	9.2
50°-60°	492.1	7.8
60°-70°	320.9	5.1
70°-80°	161.0	2.6
80°-90°	46.4	0.7
90°-100°	233.1	3.7
100°-110°	633.2	10.1
110°-120°	651.0	10.4
120°-130°	520.5	8.3
130°-140°	409.0	6.5
140°-150°	313.6	5.0
150°-160°	225.5	3.6
160°-170°	137.9	2.2
170°-180°	46.5	0.7
0°-30°	932.1	14.9
0°-40°	1507.1	24.0
0°-60°	2576.0	41.1
0°-90°	3104.3	49.5
90°-120°	1517.2	24.2
90°-150°	2760.3	44.0
90°-180°	3170.0	50.5
0°-180°	6274.4	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	4
95°	34	128	406	177	119	36
105°	112	175	696	1060	998	119
115°	200	243	557	1109	1263	197
125°	275	313	504	850	1002	245
135°	331	368	490	692	781	256
145°	382	410	484	588	632	240
155°	432	448	481	528	543	199
165°	468	474	482	503	504	132
175°	486	487	484	490	489	46
180°	486	486	486	486	486	

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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	17.3
90°	1.6	6.1	10.9	14.1	14.1
92.5°	14.1	63.8	110.8	47.6	40.3
95°	34.3	127.5	405.9	176.7	118.7
97.5°	56.8	140.8	622.3	484.1	340.0
100°	71.8	149.7	688.5	697.9	563.6
102.5°	86.8	158.5	706.0	863.1	744.7
105°	112.4	175.0	696.3	1060.2	997.6
107.5°	138.9	194.2	656.0	1161.9	1179.3
110°	157.7	208.1	626.0	1182.0	1256.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	173.9	221.8	596.1	1165.3	1278.0
115°	199.8	242.6	557.3	1108.8	1263.0
117.5°	224.2	265.1	532.7	1028.7	1202.4
120°	240.4	280.1	521.4	975.0	1147.5
122.5°	254.2	293.8	513.9	921.1	1087.5
125°	274.8	312.9	504.3	849.6	1002.3
127.5°	293.2	331.0	499.0	795.4	926.4
130°	304.4	341.1	496.5	761.4	878.9
132.5°	315.7	352.3	494.0	732.4	836.5
135°	331.0	367.6	490.2	692.1	780.6
137.5°	347.5	380.8	488.3	656.5	730.9
140°	357.5	389.6	487.1	633.8	701.0
142.5°	367.5	397.1	485.8	616.1	672.2
145°	382.5	410.0	484.0	588.0	632.3
147.5°	399.4	422.9	482.4	565.9	600.7
150°	410.6	430.4	482.4	553.3	580.8
152.5°	419.3	436.7	481.2	541.9	564.5
155°	432.4	447.7	480.8	528.0	543.3
157.5°	445.3	457.2	480.8	518.6	530.2
160°	452.7	463.4	480.8	512.3	521.4
162.5°	460.2	468.5	482.1	507.2	513.9
165°	468.4	474.5	482.4	502.7	504.3
167.5°	476.8	479.8	484.0	497.4	498.6
170°	479.3	482.3	484.0	494.9	494.9
172.5°	481.8	483.6	484.0	492.4	492.4
175°	485.5	487.1	484.0	490.2	488.7
177.5°	486.8	486.8	483.0	488.0	485.5
180°	485.5	485.5	485.5	485.5	485.5

(END OF REPORT)