

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: P563196

Luminaire Tested: **SQ4-PP3-025U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563196  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-050D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

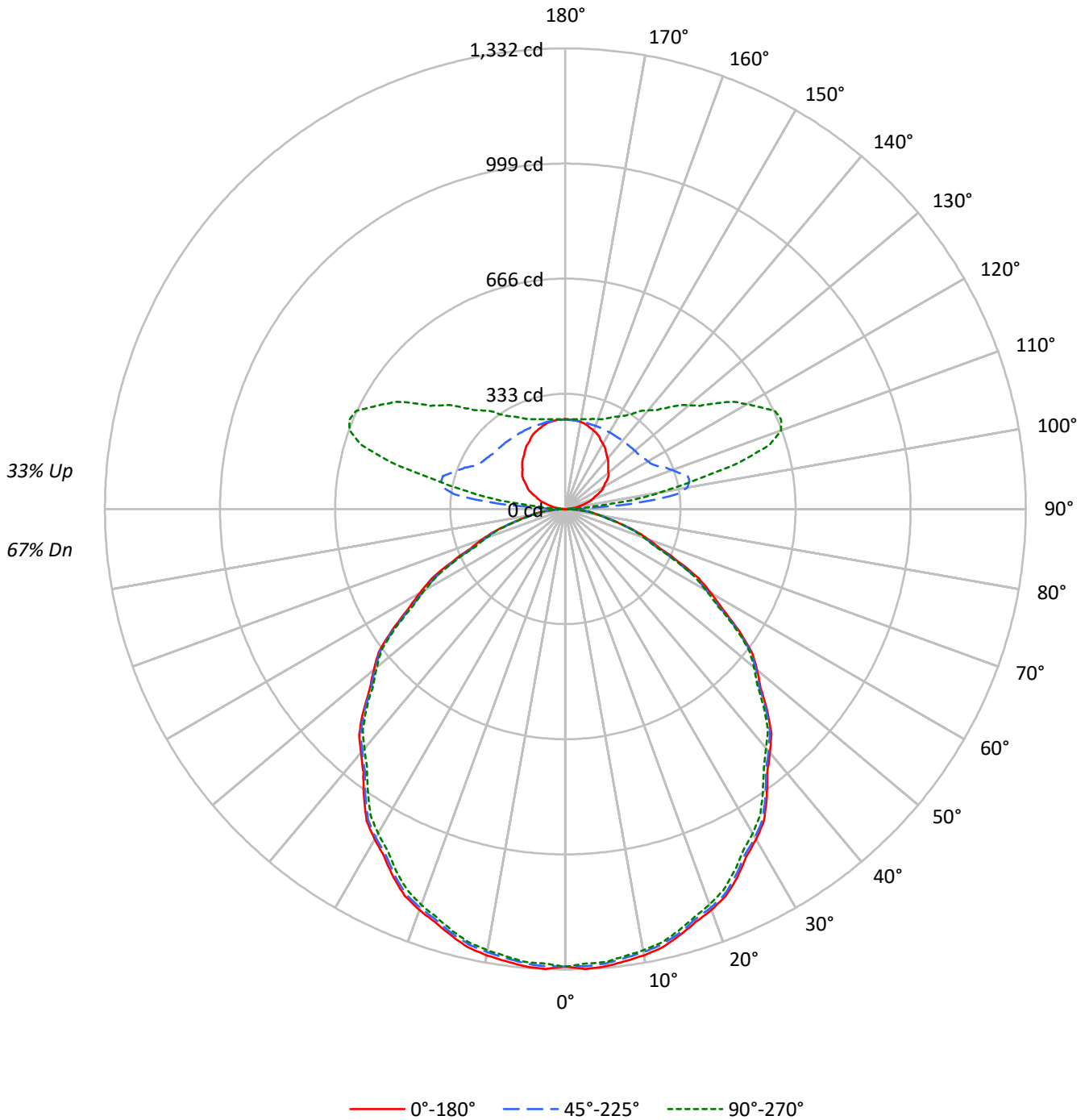
Lumens per Lamp: N/A  
Luminaire Lumens: 5067.5 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 45.7  
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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67				
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57				
2	93	85	79	74	87	81	75	71	72	68	64	64	61	58	56	54	52	48				
3	85	75	68	62	80	71	65	59	64	58	54	57	53	49	50	47	44	41				
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38	35				
5	72	60	51	45	67	57	49	44	51	45	40	46	41	37	41	37	33	31				
6	66	54	45	39	62	51	43	38	46	40	35	41	36	32	37	33	30	27				
7	61	49	40	35	57	46	39	34	42	36	31	38	32	29	34	29	26	24				
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	31	27	24	21				
9	53	40	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19				
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	17				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6105	6105	6105
5°	6151	6113	6091
10°	6140	6097	6069
15°	6099	6066	6033
20°	6059	6025	5979
25°	5987	5946	5887
30°	5876	5845	5771
35°	5722	5683	5611
40°	5540	5505	5441
45°	5388	5350	5297
50°	5195	5161	5111
55°	4926	4861	4823
60°	4484	4356	4334
65°	3950	3786	3773
70°	3411	3269	3269
75°	2936	2895	2854
80°	2588	2619	2558
85°	2027	2212	2212



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.2	2.5
10°-20°	357.4	7.1
20°-30°	535.3	10.6
30°-40°	627.8	12.4
40°-50°	629.8	12.4
50°-60°	537.3	10.6
60°-70°	350.4	6.9
70°-80°	175.8	3.5
80°-90°	50.0	1.0
90°-100°	126.2	2.5
100°-110°	331.8	6.5
110°-120°	344.1	6.8
120°-130°	276.0	5.4
130°-140°	216.6	4.3
140°-150°	166.2	3.3
150°-160°	119.7	2.4
160°-170°	73.2	1.4
170°-180°	24.7	0.5
0°-30°	1017.8	20.1
0°-40°	1645.6	32.5
0°-60°	2812.7	55.5
0°-90°	3388.9	66.9
90°-120°	802.1	15.8
90°-150°	1460.9	28.8
90°-180°	1679.0	33.1
0°-180°	5067.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1324	1324	1324	1324	1324	
5°	1328	1316	1320	1315	1315	126
15°	1277	1265	1270	1266	1263	360
25°	1176	1163	1168	1158	1156	541
35°	1016	1006	1009	998	996	635
45°	826	820	820	812	812	636
55°	612	610	604	601	600	544
65°	362	355	347	344	346	361
75°	165	165	162	161	160	179
85°	38	42	42	42	42	45
90°	2	5	13	7	7	3
95°	17	65	218	112	76	19
105°	60	91	367	557	520	63
115°	106	129	294	586	669	105
125°	148	166	267	452	533	131
135°	176	194	259	365	413	136
145°	204	217	256	311	335	128
155°	231	237	256	281	289	106
165°	249	252	256	266	269	70
175°	259	259	257	261	261	25
180°	259	259	259	259	259	

TEST NUMBER: P563196

CATALOG NUMBER: SQ4-PP3-025U-050D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1323.5	1323.5	1323.5	1323.5	1323.5
2.5°	1331.9	1321.0	1323.5	1321.6	1316.1
5°	1328.2	1315.7	1320.1	1315.4	1315.4
7.5°	1319.1	1305.5	1309.9	1305.2	1305.0
10°	1310.8	1297.2	1301.5	1296.8	1295.7
12.5°	1298.7	1285.1	1290.4	1284.8	1284.6
15°	1277.1	1264.7	1270.2	1265.5	1263.2
17.5°	1252.8	1239.2	1245.8	1239.3	1238.4
20°	1234.2	1220.6	1227.3	1218.0	1218.0
22.5°	1212.0	1198.3	1205.9	1193.9	1193.9
25°	1176.2	1162.6	1168.1	1157.6	1156.5
27.5°	1133.8	1120.4	1126.1	1114.3	1114.0
30°	1103.1	1090.7	1097.3	1084.6	1083.4
32.5°	1069.7	1058.2	1063.0	1050.2	1049.1
35°	1016.1	1005.9	1009.2	997.6	996.4
37.5°	959.8	949.3	953.0	943.1	942.6
40°	919.9	913.1	914.1	905.9	903.6
42.5°	882.7	875.0	876.0	867.9	867.4
45°	825.9	820.2	820.1	812.0	812.0
47.5°	765.6	761.3	760.0	753.3	753.1
50°	723.8	720.4	719.2	713.4	712.2
52.5°	680.2	678.6	674.6	669.8	669.5
55°	612.5	610.2	604.4	600.8	599.7
57.5°	538.9	534.4	527.8	522.7	523.6
60°	486.0	481.5	472.1	469.8	469.8
62.5°	435.0	429.6	420.1	416.9	418.8
65°	361.9	355.1	346.8	344.5	345.7
67.5°	295.6	289.4	280.5	280.5	279.6
70°	252.9	249.5	242.4	242.4	242.4
72.5°	214.8	213.2	208.1	208.1	207.2
75°	164.7	164.7	162.4	161.2	160.1
77.5°	123.4	123.9	122.7	121.5	119.5
80°	97.4	99.7	98.6	97.4	96.3
82.5°	73.3	75.6	75.4	73.3	73.1
85°	38.3	41.7	41.8	41.8	41.8
87.5°	10.5	14.8	17.5	16.2	17.1
90°	1.7	4.9	13.3	6.6	6.6
92.5°	7.0	33.6	74.4	32.9	21.2
95°	16.6	65.3	217.5	112.1	76.4
97.5°	28.9	71.7	325.4	258.8	190.6
100°	38.2	77.1	358.6	363.4	282.2
102.5°	46.2	82.5	367.9	452.6	383.1
105°	59.8	90.6	366.9	556.9	519.6
107.5°	73.7	102.3	346.0	611.1	620.2
110°	83.0	109.0	328.7	625.1	664.0

TEST NUMBER: P563196

CATALOG NUMBER: SQ4-PP3-025U-050D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	92.3	117.0	312.8	616.3	676.0
115°	106.2	129.0	293.8	586.2	669.0
117.5°	119.9	140.6	280.9	544.6	636.5
120°	127.8	147.3	275.6	516.7	605.9
122.5°	135.8	155.3	271.6	488.7	576.7
125°	147.7	165.6	267.3	451.7	532.9
127.5°	157.4	175.6	263.6	421.9	490.4
130°	162.7	182.2	262.3	403.2	466.5
132.5°	168.0	187.5	261.0	387.1	443.9
135°	176.0	193.8	259.0	364.7	413.4
137.5°	184.3	201.8	258.6	347.9	387.8
140°	190.9	207.1	257.3	334.5	371.9
142.5°	196.2	211.2	257.3	325.1	357.3
145°	204.2	217.2	255.7	311.0	335.3
147.5°	212.2	224.8	255.7	299.3	319.4
150°	217.5	228.8	255.7	292.5	308.8
152.5°	222.8	231.5	255.7	287.1	299.5
155°	230.8	237.2	255.7	280.7	288.9
157.5°	236.7	242.9	255.7	275.0	280.9
160°	240.7	245.6	255.7	272.3	275.6
162.5°	244.7	248.3	255.7	269.7	272.9
165°	249.0	252.3	255.7	265.7	268.9
167.5°	253.0	254.6	257.3	264.0	265.3
170°	255.7	257.3	257.3	264.0	264.0
172.5°	257.0	257.3	257.3	262.6	261.3
175°	259.0	259.0	257.3	260.6	260.6
177.5°	259.0	259.0	257.6	260.3	259.0
180°	259.0	259.0	259.0	259.0	259.0

(END OF REPORT)