

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: P562523

Luminaire Tested: **SQ4-PC3-025U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562523  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-025U-050D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

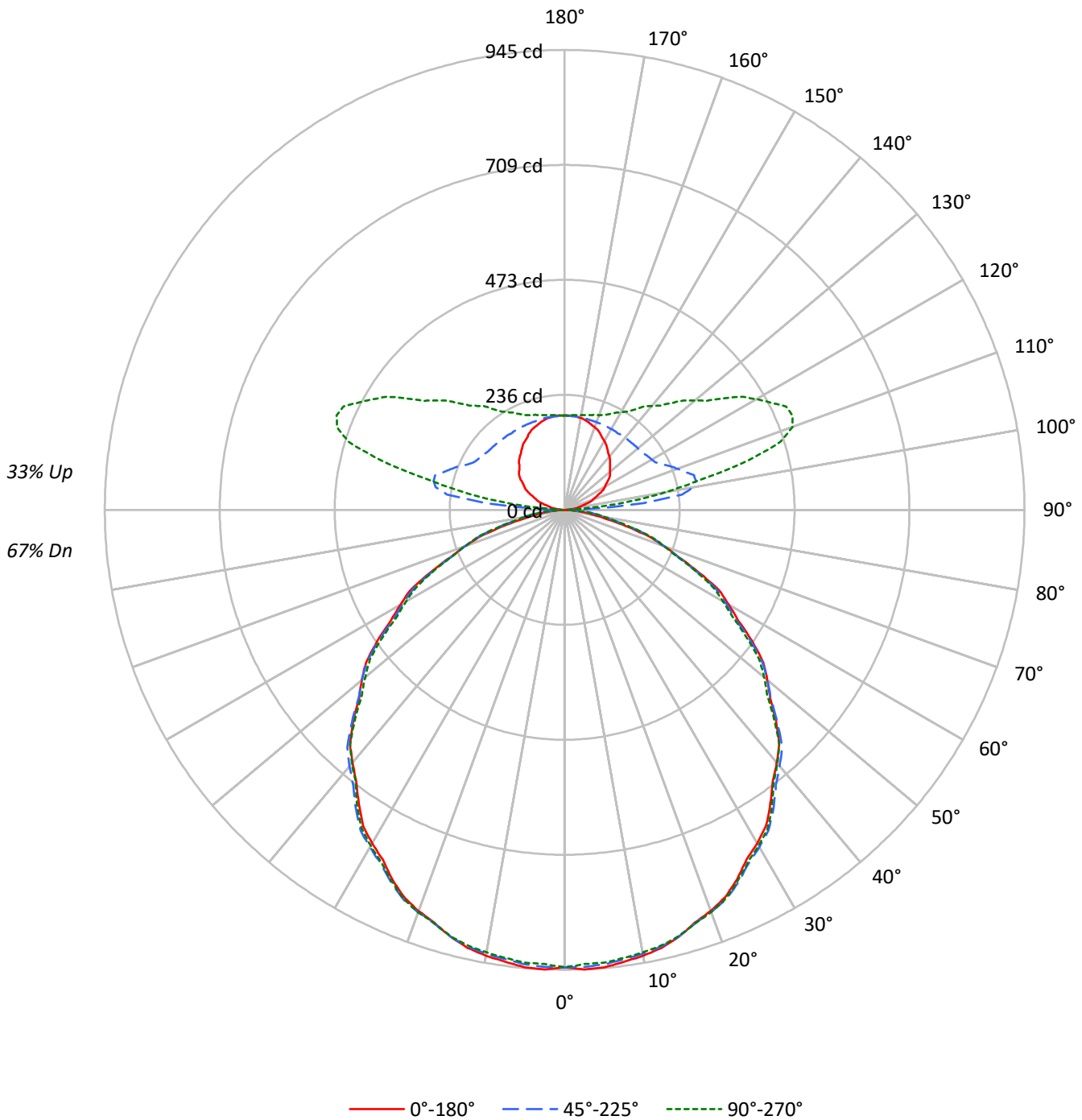
Lumens per Lamp: N/A  
Luminaire Lumens: 3824.9 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 34.9  
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	0
RW	70	50	30	10	70	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	97	93	90	96	92	88	85	82	79	77	72	70	68	64	62	61	57
2	93	85	79	73	87	80	75	70	72	67	63	63	60	57	56	54	51	47
3	85	75	67	61	79	71	64	59	63	58	53	56	52	48	50	46	44	40
4	77	66	58	52	73	63	55	50	56	50	45	50	45	41	44	41	38	34
5	71	59	51	44	67	56	48	43	50	44	39	45	40	36	40	36	33	30
6	65	53	45	39	61	50	43	37	45	39	34	41	35	31	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	26	23
8	56	44	36	30	53	41	34	29	38	31	27	34	29	25	30	26	23	21
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21	19
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

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

	0°	45°	90°
0°	5781	5781	5781
5°	5824	5787	5765
10°	5810	5783	5767
15°	5779	5779	5774
20°	5742	5759	5759
25°	5687	5729	5711
30°	5618	5686	5661
35°	5535	5620	5580
40°	5443	5520	5464
45°	5344	5382	5298
50°	5205	5205	5121
55°	5039	4974	4900
60°	4795	4699	4624
65°	4433	4344	4307
70°	3881	3911	3897
75°	3123	3453	3474
80°	2221	2929	2958
85°	1348	2456	2456



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.9	2.3
10°-20°	255.2	6.7
20°-30°	386.5	10.1
30°-40°	463.4	12.1
40°-50°	472.5	12.4
50°-60°	412.5	10.8
60°-70°	295.3	7.7
70°-80°	152.1	4.0
80°-90°	39.5	1.0
90°-100°	94.7	2.5
100°-110°	248.9	6.5
110°-120°	258.1	6.7
120°-130°	207.0	5.4
130°-140°	162.4	4.2
140°-150°	124.6	3.3
150°-160°	89.8	2.3
160°-170°	54.9	1.4
170°-180°	18.6	0.5
0°-30°	730.7	19.1
0°-40°	1194.1	31.2
0°-60°	2079.1	54.4
0°-90°	2566.0	67.1
90°-120°	601.6	15.7
90°-150°	1095.7	28.6
90°-180°	1259.0	32.9
0°-180°	3824.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	943	934	937	935	934	90
15°	908	900	908	908	907	256
25°	838	832	844	842	842	386
35°	737	735	748	743	743	461
45°	614	613	619	611	609	473
55°	470	464	464	457	457	419
65°	305	298	298	296	296	301
75°	131	137	145	146	146	142
85°	19	29	35	36	35	26
90°	1	4	10	5	5	2
95°	12	49	163	84	57	14
105°	45	68	275	418	390	48
115°	80	97	220	440	502	79
125°	111	124	200	339	400	98
135°	132	145	194	274	310	102
145°	153	163	192	233	252	96
155°	173	178	192	211	217	80
165°	187	189	192	199	202	53
175°	194	194	193	196	196	18
180°	194	194	194	194	194	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	939.8	939.8	939.8	939.8	939.8
2.5°	945.4	937.2	939.8	937.6	934.2
5°	943.3	933.9	937.2	934.6	933.7
7.5°	936.5	927.1	931.5	929.7	928.8
10°	930.2	920.9	925.9	924.1	923.3
12.5°	921.9	913.2	918.9	917.2	917.0
15°	907.6	900.0	907.6	907.6	906.7
17.5°	889.7	882.7	890.9	891.4	890.9
20°	877.2	869.5	879.8	878.9	879.8
22.5°	861.8	855.5	866.5	864.3	865.1
25°	838.0	832.0	844.1	841.5	841.5
27.5°	809.8	805.5	818.7	815.9	815.9
30°	791.0	786.8	800.6	797.1	797.1
32.5°	770.1	767.2	780.4	776.2	776.2
35°	737.1	735.4	748.4	743.1	743.1
37.5°	702.9	701.4	713.2	706.9	704.9
40°	677.9	677.0	687.5	680.5	680.5
42.5°	652.8	652.0	661.0	652.6	652.6
45°	614.4	612.7	618.7	610.8	609.1
47.5°	572.4	570.7	574.5	566.0	565.1
50°	543.9	542.2	543.9	536.0	535.2
52.5°	514.6	511.6	511.8	504.0	503.8
55°	469.9	463.9	463.8	456.9	456.9
57.5°	422.6	414.7	415.4	409.5	408.6
60°	389.8	381.3	382.0	376.8	375.9
62.5°	357.8	348.0	350.0	344.1	343.9
65°	304.6	297.8	298.5	295.9	295.9
67.5°	253.4	247.1	251.7	249.6	249.4
70°	215.8	211.6	217.5	217.5	216.7
72.5°	181.0	180.8	188.3	188.3	188.8
75°	131.4	137.4	145.3	146.2	146.2
77.5°	87.7	98.3	107.0	107.4	107.2
80°	62.7	74.6	82.7	84.4	83.5
82.5°	42.5	55.1	61.8	63.5	62.7
85°	19.1	29.4	34.8	35.7	34.8
87.5°	5.8	12.4	15.9	14.9	13.5
90°	1.2	3.7	10.0	5.0	5.0
92.5°	5.2	25.2	55.8	24.7	15.9
95°	12.5	49.0	163.1	84.1	57.3
97.5°	21.7	53.8	244.0	194.1	142.9
100°	28.6	57.9	268.9	272.5	211.7
102.5°	34.6	61.9	275.9	339.5	287.4
105°	44.8	68.0	275.2	417.7	389.7
107.5°	55.3	76.7	259.5	458.3	465.2
110°	62.3	81.7	246.5	468.8	498.0



TEST NUMBER: P562523

CATALOG NUMBER: SQ4-PC3-025U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	87.7	234.6	462.2	507.0
115°	79.7	96.7	220.4	439.7	501.8
117.5°	89.9	105.5	210.7	408.5	477.4
120°	95.9	110.5	206.7	387.5	454.4
122.5°	101.8	116.5	203.7	366.6	432.5
125°	110.8	124.2	200.5	338.8	399.7
127.5°	118.0	131.7	197.7	316.4	367.8
130°	122.0	136.6	196.7	302.4	349.9
132.5°	126.0	140.6	195.7	290.3	332.9
135°	132.0	145.4	194.2	273.5	310.0
137.5°	138.2	151.3	194.0	260.9	290.8
140°	143.2	155.4	193.0	250.9	278.9
142.5°	147.2	158.4	193.0	243.8	267.9
145°	153.1	162.9	191.7	233.2	251.5
147.5°	159.1	168.6	191.7	224.5	239.6
150°	163.1	171.6	191.7	219.4	231.6
152.5°	167.1	173.7	191.7	215.4	224.6
155°	173.1	177.9	191.7	210.6	216.6
157.5°	177.5	182.2	191.7	206.3	210.7
160°	180.5	184.2	191.7	204.2	206.7
162.5°	183.5	186.2	191.7	202.3	204.7
165°	186.8	189.2	191.7	199.3	201.7
167.5°	189.7	191.0	193.0	198.0	199.0
170°	191.7	193.0	193.0	198.0	198.0
172.5°	192.7	193.0	193.0	196.9	196.0
175°	194.2	194.2	193.0	195.5	195.5
177.5°	194.2	194.2	193.2	195.2	194.2
180°	194.2	194.2	194.2	194.2	194.2

(END OF REPORT)