

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: P563267

Luminaire Tested: **SQ4-PP3-025U-125D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563267  
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-125D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

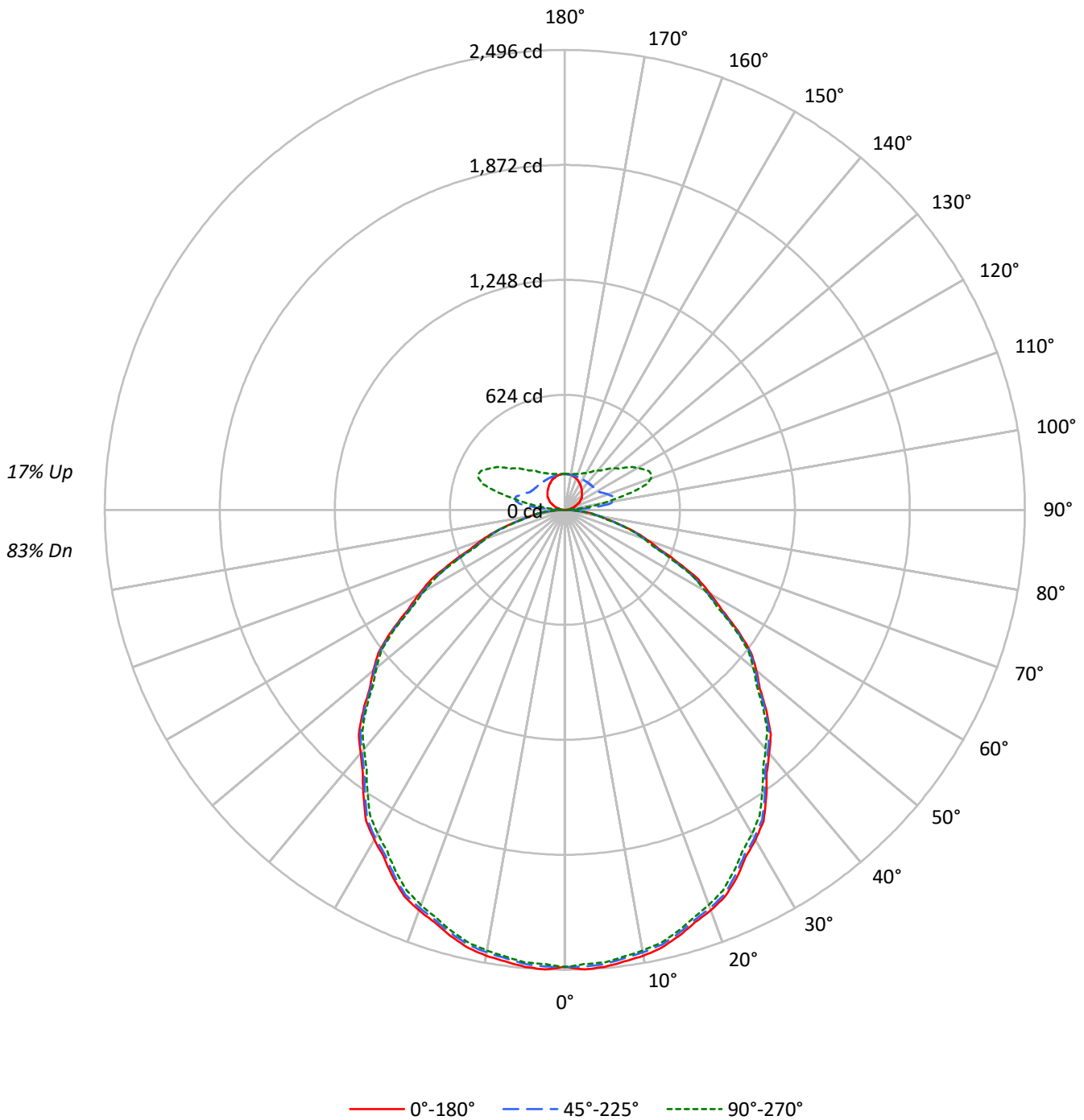
Lumens per Lamp: N/A  
Luminaire Lumens: 7609.4 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 77.9  
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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71
2	96	89	82	77	92	86	80	75	79	75	71	74	70	67	68	66	63	60
3	88	78	71	65	84	76	69	63	70	65	60	65	61	57	61	57	54	51
4	81	70	61	55	77	67	60	54	63	56	51	58	53	49	55	50	47	44
5	74	62	54	48	71	60	52	47	56	50	45	53	47	43	49	45	41	38
6	69	56	48	42	66	54	46	41	51	44	39	48	42	37	45	40	36	34
7	64	51	43	37	61	49	42	36	46	40	35	44	38	33	41	36	32	30
8	59	46	38	33	57	45	37	32	42	36	31	40	34	30	38	33	29	27
9	55	43	35	29	53	41	34	29	39	32	28	37	31	27	35	30	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	24	22

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

	0°	45°	90°
0°	15259	15259	15259
5°	15371	15276	15223
10°	15345	15236	15168
15°	15243	15160	15077
20°	15142	15057	14943
25°	14962	14859	14711
30°	14685	14608	14423
35°	14301	14204	14023
40°	13843	13757	13599
45°	13465	13371	13238
50°	12982	12899	12775
55°	12311	12148	12054
60°	11207	10886	10833
65°	9873	9462	9430
70°	8524	8172	8172
75°	7336	7234	7129
80°	6468	6546	6394
85°	5060	5526	5526



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.6	3.1
10°-20°	669.8	8.8
20°-30°	1003.3	13.2
30°-40°	1176.8	15.5
40°-50°	1180.5	15.5
50°-60°	1007.0	13.2
60°-70°	656.8	8.6
70°-80°	329.5	4.3
80°-90°	92.2	1.2
90°-100°	94.7	1.2
100°-110°	248.9	3.3
110°-120°	258.1	3.4
120°-130°	207.0	2.7
130°-140°	162.4	2.1
140°-150°	124.6	1.6
150°-160°	89.8	1.2
160°-170°	54.9	0.7
170°-180°	18.6	0.2
0°-30°	1907.7	25.1
0°-40°	3084.5	40.5
0°-60°	5272.0	69.3
0°-90°	6350.5	83.5
90°-120°	601.6	7.9
90°-150°	1095.7	14.4
90°-180°	1259.0	16.5
0°-180°	7609.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2481	2481	2481	2481	2481	
5°	2490	2466	2474	2466	2466	236
15°	2394	2370	2381	2372	2368	675
25°	2205	2179	2189	2170	2168	1014
35°	1905	1886	1892	1870	1868	1190
45°	1548	1537	1537	1522	1522	1192
55°	1148	1144	1133	1126	1124	1020
65°	678	666	650	646	648	677
75°	309	309	304	302	300	335
85°	72	78	78	78	78	84
90°	1	4	10	5	5	4
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°	2480.8	2480.8	2480.8	2480.8	2480.8
2.5°	2496.4	2476.0	2480.8	2477.1	2466.9
5°	2489.5	2466.1	2474.2	2465.6	2465.6
7.5°	2472.5	2447.0	2455.1	2446.4	2446.0
10°	2456.9	2431.3	2439.5	2430.7	2428.6
12.5°	2434.2	2408.7	2418.6	2408.1	2407.7
15°	2393.8	2370.4	2380.8	2372.0	2367.7
17.5°	2348.1	2322.6	2335.1	2322.9	2321.2
20°	2313.4	2287.8	2300.3	2282.9	2282.9
22.5°	2271.6	2246.1	2260.3	2237.7	2237.7
25°	2204.6	2179.1	2189.4	2169.8	2167.7
27.5°	2125.1	2100.0	2110.7	2088.5	2088.1
30°	2067.7	2044.3	2056.8	2032.8	2030.7
32.5°	2005.1	1983.4	1992.4	1968.5	1966.4
35°	1904.6	1885.5	1891.6	1869.8	1867.6
37.5°	1798.9	1779.4	1786.3	1767.6	1766.8
40°	1724.1	1711.4	1713.3	1698.0	1693.7
42.5°	1654.6	1640.1	1642.0	1626.7	1625.9
45°	1548.0	1537.4	1537.2	1521.9	1521.9
47.5°	1435.0	1426.9	1424.5	1411.9	1411.5
50°	1356.7	1350.3	1348.0	1337.1	1335.0
52.5°	1275.0	1272.0	1264.5	1255.4	1255.0
55°	1148.0	1143.7	1132.8	1126.2	1124.1
57.5°	1010.1	1001.6	989.3	979.7	981.4
60°	911.0	902.5	884.9	880.6	880.6
62.5°	815.3	805.1	787.5	781.5	784.9
65°	678.4	665.6	650.1	645.8	647.9
67.5°	554.0	542.5	525.7	525.7	524.0
70°	474.0	467.6	454.4	454.4	454.4
72.5°	402.7	399.7	390.1	390.0	388.3
75°	308.7	308.7	304.4	302.2	300.0
77.5°	231.3	232.2	230.0	227.8	223.9
80°	182.6	186.9	184.8	182.6	180.5
82.5°	137.4	141.7	141.3	137.4	137.0
85°	71.7	78.1	78.3	78.3	78.3
87.5°	19.4	26.7	29.8	28.9	30.6
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



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**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)