

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: P523659

Luminaire Tested: **SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523659  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6780.4 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

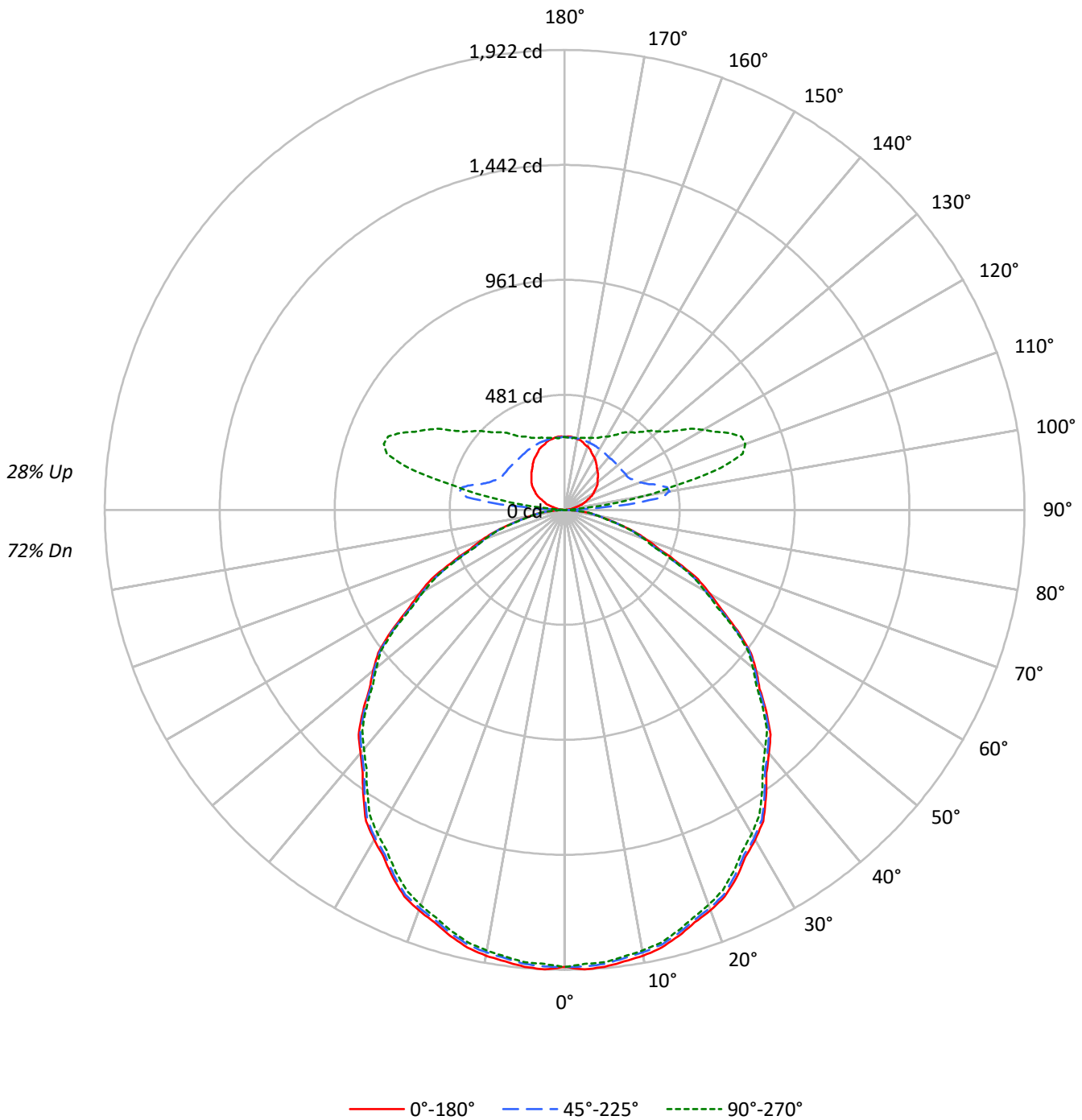
Input Watts (W): 69.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	76	76	76	72	
1	103	99	95	91	98	94	90	87	84	82	79	76	74	72	68	67	65	65	65	65	61	
2	94	87	80	75	89	82	77	72	74	70	66	67	64	61	60	58	55	55	55	55	52	
3	86	76	69	63	81	73	66	60	66	60	56	59	55	52	54	50	47	47	47	47	44	
4	79	68	60	53	74	65	57	52	59	53	48	53	48	44	48	44	41	41	41	41	38	
5	72	61	52	46	68	58	50	45	53	46	42	48	43	39	43	39	36	36	36	36	33	
6	67	54	46	40	63	52	44	39	48	41	36	43	38	34	39	35	32	32	32	32	29	
7	62	49	41	35	59	47	40	34	43	37	32	39	34	30	36	31	28	28	28	28	26	
8	58	45	37	31	55	43	36	31	39	33	29	36	31	27	33	29	25	25	25	25	23	
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	23	23	23	23	21	
10	50	38	30	25	48	36	29	25	34	28	23	31	26	22	28	24	21	21	21	21	19	

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

	0°	45°	90°
0°	17624	17624	17624
5°	17753	17645	17583
10°	17723	17598	17519
15°	17606	17510	17414
20°	17489	17390	17259
25°	17282	17161	16991
30°	16961	16872	16658
35°	16517	16405	16197
40°	15990	15888	15707
45°	15553	15443	15291
50°	14995	14899	14754
55°	14218	14030	13922
60°	12944	12573	12511
65°	11402	10929	10892
70°	9846	9439	9439
75°	8473	8356	8235
80°	7470	7561	7385
85°	5843	6383	6383



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.6	2.7
10°-20°	515.7	7.6
20°-30°	772.5	11.4
30°-40°	906.1	13.4
40°-50°	909.0	13.4
50°-60°	775.4	11.4
60°-70°	505.7	7.5
70°-80°	253.7	3.7
80°-90°	70.2	1.0
90°-100°	138.8	2.0
100°-110°	394.8	5.8
110°-120°	378.2	5.6
120°-130°	299.4	4.4
130°-140°	240.3	3.5
140°-150°	188.1	2.8
150°-160°	137.6	2.0
160°-170°	85.3	1.3
170°-180°	28.9	0.4
0°-30°	1468.9	21.7
0°-40°	2375.0	35.0
0°-60°	4059.4	59.9
0°-90°	4889.0	72.1
90°-120°	911.8	13.4
90°-150°	1639.5	24.2
90°-180°	1891.0	27.9
0°-180°	6780.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1910	1910	1910	1910	1910	
5°	1917	1899	1905	1898	1898	182
15°	1843	1825	1833	1826	1823	520
25°	1698	1678	1686	1671	1669	781
35°	1466	1452	1456	1440	1438	916
45°	1192	1184	1184	1172	1172	918
55°	884	881	872	867	866	786
65°	522	512	501	497	499	521
75°	238	238	234	233	231	258
85°	55	60	60	60	60	65
90°	0	0	0	0	0	3
95°	15	60	269	93	57	17
105°	61	93	402	711	676	65
115°	114	138	305	646	759	112
125°	161	178	291	483	578	144
135°	197	213	288	408	461	152
145°	232	244	290	353	385	145
155°	265	271	297	319	332	123
165°	293	294	300	307	311	82
175°	307	305	304	302	300	29
180°	304	304	304	304	304	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1910.2	1910.2	1910.2	1910.2	1910.2
2.5°	1922.2	1906.5	1910.2	1907.3	1899.5
5°	1916.9	1898.9	1905.2	1898.5	1898.5
7.5°	1903.8	1884.2	1890.4	1883.7	1883.4
10°	1891.8	1872.1	1878.4	1871.6	1870.0
12.5°	1874.4	1854.7	1862.3	1854.3	1853.9
15°	1843.2	1825.2	1833.2	1826.4	1823.1
17.5°	1808.1	1788.4	1798.0	1788.6	1787.3
20°	1781.3	1761.6	1771.2	1757.8	1757.8
22.5°	1749.1	1729.5	1740.4	1723.0	1723.0
25°	1697.6	1677.9	1685.8	1670.7	1669.1
27.5°	1636.3	1617.0	1625.2	1608.2	1607.8
30°	1592.1	1574.1	1583.7	1565.3	1563.6
32.5°	1543.9	1527.2	1534.2	1515.7	1514.1
35°	1466.5	1451.8	1456.5	1439.7	1438.1
37.5°	1385.2	1370.1	1375.5	1361.1	1360.4
40°	1327.6	1317.8	1319.2	1307.4	1304.1
42.5°	1274.0	1262.9	1264.3	1252.6	1251.9
45°	1192.0	1183.8	1183.6	1171.9	1171.9
47.5°	1104.9	1098.7	1096.9	1087.2	1086.8
50°	1044.7	1039.7	1038.0	1029.6	1027.9
52.5°	981.7	979.4	973.7	966.6	966.3
55°	883.9	880.7	872.2	867.2	865.5
57.5°	777.8	771.3	761.7	754.4	755.7
60°	701.5	694.9	681.4	678.0	678.0
62.5°	627.8	619.9	606.4	601.7	604.4
65°	522.3	512.5	500.6	497.3	498.9
67.5°	426.6	417.7	404.8	404.8	403.5
70°	365.0	360.0	349.9	349.9	349.9
72.5°	310.0	307.8	300.3	300.3	299.0
75°	237.7	237.7	234.4	232.7	231.0
77.5°	178.1	178.8	177.1	175.4	172.4
80°	140.6	143.9	142.3	140.6	139.0
82.5°	105.8	109.1	108.8	105.8	105.5
85°	55.2	60.2	60.3	60.3	60.3
87.5°	14.7	20.0	21.4	21.5	22.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.6	24.6	57.0	16.6	12.5
95°	15.1	59.8	268.6	93.0	57.3
97.5°	27.7	70.0	413.7	296.0	202.8
100°	36.5	76.1	445.1	450.9	347.3
102.5°	46.2	82.6	438.2	577.2	486.7
105°	61.4	93.1	402.3	710.6	675.5
107.5°	76.8	105.2	360.4	748.3	779.5
110°	87.4	114.0	336.3	733.9	804.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	97.6	122.8	320.1	699.8	799.9
115°	114.0	137.8	305.1	646.3	758.9
117.5°	128.5	150.8	296.1	587.7	707.0
120°	140.1	158.8	295.2	554.3	668.6
122.5°	149.3	168.0	292.9	524.9	631.1
125°	160.9	178.5	291.2	483.2	577.7
127.5°	173.5	190.0	290.2	458.3	536.1
130°	180.0	196.4	288.9	440.9	508.8
132.5°	187.0	202.9	288.9	427.3	489.8
135°	196.8	213.2	287.7	408.2	461.4
137.5°	206.1	222.0	287.6	391.9	437.9
140°	213.0	229.4	287.1	378.4	422.6
142.5°	220.9	234.6	288.5	367.7	407.3
145°	232.1	244.0	290.0	353.2	384.9
147.5°	241.7	253.3	292.6	338.7	366.1
150°	250.1	258.0	293.5	333.9	353.1
152.5°	256.6	264.9	294.4	327.3	345.2
155°	265.1	271.3	297.0	319.3	332.3
157.5°	275.8	279.5	297.5	315.6	324.9
160°	281.3	284.2	299.9	312.8	320.7
162.5°	284.6	287.9	300.3	310.4	316.5
165°	292.9	294.0	300.4	306.9	311.4
167.5°	298.6	297.6	303.1	306.0	307.8
170°	300.4	299.9	302.2	302.8	305.1
172.5°	304.6	302.7	303.6	301.9	303.7
175°	306.8	305.1	303.9	302.1	299.9
177.5°	307.7	305.0	303.6	301.7	302.2
180°	304.5	304.5	304.5	304.5	304.5

(END OF REPORT)