

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: P523664

Luminaire Tested: **SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523664  
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 (5700K)  
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 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7367.1 lumens  
Efficiency: N/A  
Efficacy: 105.8 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

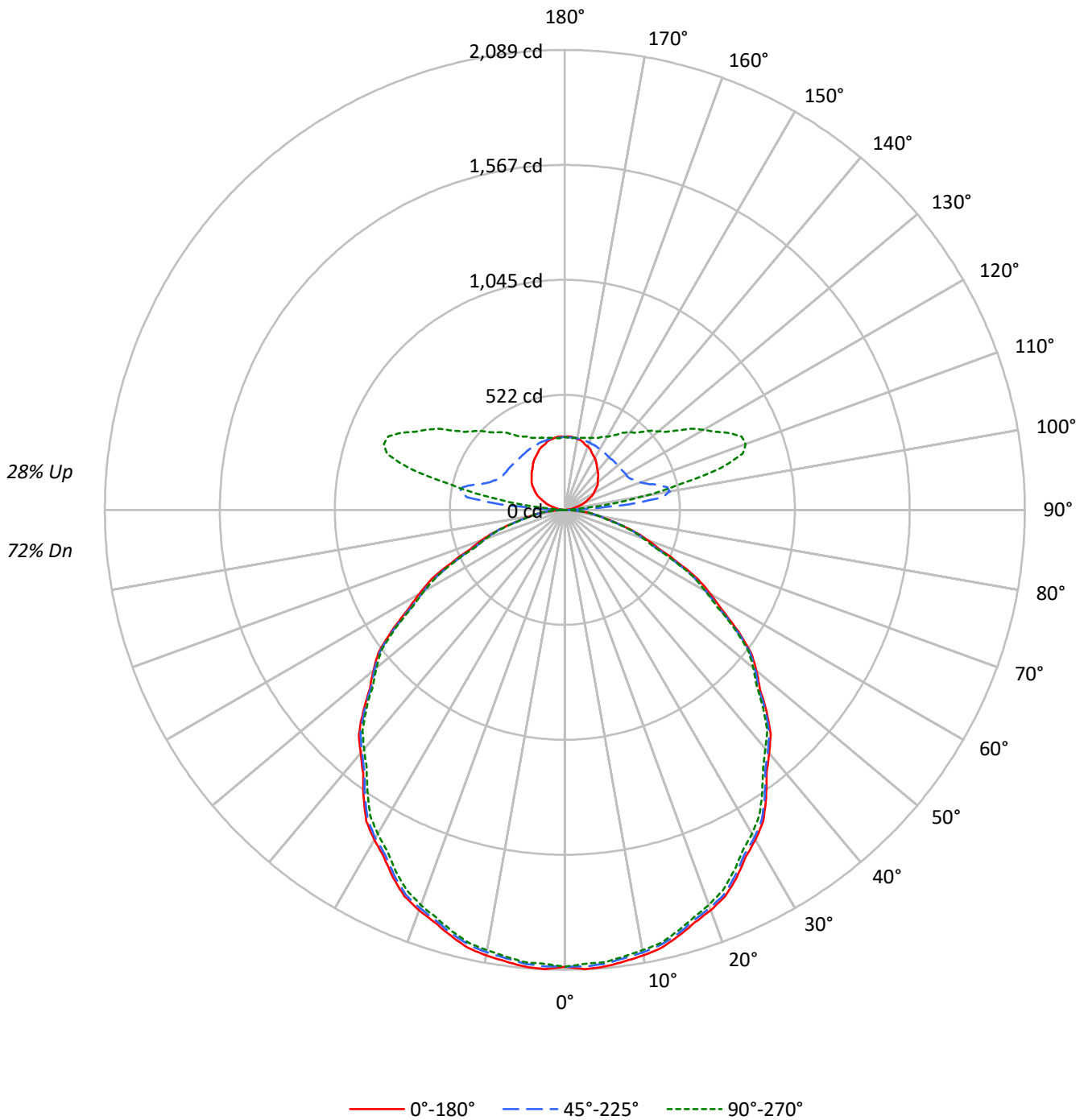
Input Watts (W): 69.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	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	72		
1	103	99	95	91	98	94	90	87	84	82	79	76	74	72	68	67	65	61		
2	94	87	80	75	89	82	77	72	74	70	66	67	64	61	60	58	55	52		
3	86	76	69	63	81	73	66	60	66	60	56	59	55	52	54	50	47	44		
4	79	68	60	53	74	65	57	52	59	53	48	53	48	44	48	44	41	38		
5	72	61	52	46	68	58	50	45	53	46	42	48	43	39	43	39	36	33		
6	67	54	46	40	63	52	44	39	48	41	36	43	38	34	39	35	32	29		
7	62	49	41	35	59	47	40	34	43	37	32	39	34	30	36	31	28	26		
8	58	45	37	31	55	43	36	31	39	33	29	36	31	27	33	29	25	23		
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	23	21		
10	50	38	30	25	48	36	29	25	34	28	23	31	26	22	28	24	21	19		

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

	0°	45°	90°
0°	19149	19149	19149
5°	19290	19171	19104
10°	19257	19120	19035
15°	19129	19025	18921
20°	19002	18895	18752
25°	18777	18647	18461
30°	18429	18333	18099
35°	17947	17824	17599
40°	17373	17264	17066
45°	16898	16779	16614
50°	16293	16188	16031
55°	15448	15244	15127
60°	14064	13660	13594
65°	12389	11874	11835
70°	10696	10256	10256
75°	9208	9079	8947
80°	8119	8214	8023
85°	6352	6934	6934



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.3	2.7
10°-20°	560.4	7.6
20°-30°	839.4	11.4
30°-40°	984.5	13.4
40°-50°	987.6	13.4
50°-60°	842.5	11.4
60°-70°	549.5	7.5
70°-80°	275.7	3.7
80°-90°	76.3	1.0
90°-100°	150.8	2.0
100°-110°	428.9	5.8
110°-120°	411.0	5.6
120°-130°	325.3	4.4
130°-140°	261.1	3.5
140°-150°	204.4	2.8
150°-160°	149.6	2.0
160°-170°	92.6	1.3
170°-180°	31.4	0.4
0°-30°	1596.0	21.7
0°-40°	2580.5	35.0
0°-60°	4410.6	59.9
0°-90°	5312.1	72.1
90°-120°	990.7	13.4
90°-150°	1781.4	24.2
90°-180°	2055.0	27.9
0°-180°	7367.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2076	2076	2076	2076	2076	
5°	2083	2063	2070	2063	2063	198
15°	2003	1983	1992	1984	1981	565
25°	1844	1823	1832	1815	1814	848
35°	1593	1577	1582	1564	1562	995
45°	1295	1286	1286	1273	1273	997
55°	960	957	948	942	940	854
65°	568	557	544	540	542	566
75°	258	258	255	253	251	280
85°	60	65	66	66	66	71
90°	0	0	0	0	0	3
95°	16	65	292	101	62	19
105°	67	101	437	772	734	71
115°	124	150	332	702	825	122
125°	175	194	316	525	628	157
135°	214	232	313	444	501	165
145°	252	265	315	384	418	158
155°	288	295	323	347	361	133
165°	318	320	326	334	338	90
175°	333	332	330	328	326	32
180°	331	331	331	331	331	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2075.5	2075.5	2075.5	2075.5	2075.5
2.5°	2088.6	2071.5	2075.5	2072.4	2063.8
5°	2082.8	2063.2	2070.0	2062.7	2062.7
7.5°	2068.6	2047.2	2054.0	2046.7	2046.4
10°	2055.5	2034.1	2040.9	2033.6	2031.8
12.5°	2036.5	2015.2	2023.5	2014.7	2014.4
15°	2002.7	1983.2	1991.8	1984.4	1980.9
17.5°	1964.5	1943.2	1953.6	1943.4	1942.0
20°	1935.4	1914.1	1924.5	1909.9	1909.9
22.5°	1900.5	1879.1	1891.0	1872.1	1872.1
25°	1844.5	1823.1	1831.7	1815.3	1813.5
27.5°	1777.9	1756.9	1765.9	1747.3	1747.0
30°	1729.9	1710.3	1720.8	1700.7	1698.9
32.5°	1677.5	1659.3	1666.9	1646.9	1645.1
35°	1593.4	1577.4	1582.5	1564.3	1562.5
37.5°	1505.0	1488.7	1494.5	1478.8	1478.1
40°	1442.5	1431.8	1433.4	1420.6	1417.0
42.5°	1384.3	1372.2	1373.7	1361.0	1360.2
45°	1295.1	1286.2	1286.0	1273.3	1273.3
47.5°	1200.5	1193.8	1191.8	1181.2	1180.9
50°	1135.1	1129.7	1127.8	1118.6	1116.9
52.5°	1066.7	1064.2	1057.9	1050.3	1049.9
55°	960.4	956.9	947.7	942.2	940.4
57.5°	845.1	838.0	827.6	819.7	821.1
60°	762.2	755.0	740.3	736.7	736.7
62.5°	682.1	673.6	658.8	653.8	656.7
65°	567.5	556.9	543.9	540.3	542.1
67.5°	463.5	453.9	439.8	439.8	438.4
70°	396.5	391.2	380.2	380.2	380.2
72.5°	336.9	334.4	326.3	326.3	324.9
75°	258.3	258.3	254.7	252.8	251.0
77.5°	193.5	194.3	192.4	190.6	187.4
80°	152.8	156.4	154.6	152.8	151.0
82.5°	115.0	118.5	118.2	115.0	114.6
85°	60.0	65.4	65.5	65.5	65.5
87.5°	16.0	21.7	23.3	23.3	24.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.0	26.7	61.9	18.0	13.6
95°	16.4	64.9	291.8	101.0	62.3
97.5°	30.1	76.1	449.5	321.6	220.4
100°	39.6	82.7	483.7	489.9	377.4
102.5°	50.2	89.8	476.1	627.1	528.8
105°	66.7	101.1	437.1	772.1	734.0
107.5°	83.4	114.3	391.6	813.0	847.0
110°	95.0	123.9	365.4	797.4	873.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	106.0	133.5	347.8	760.4	869.1
115°	123.9	149.7	331.5	702.2	824.6
117.5°	139.6	163.9	321.8	638.6	768.2
120°	152.2	172.5	320.8	602.2	726.4
122.5°	162.3	182.6	318.3	570.3	685.7
125°	174.8	193.9	316.4	525.0	627.7
127.5°	188.6	206.4	315.4	497.9	582.5
130°	195.6	213.4	313.8	479.1	552.9
132.5°	203.2	220.5	313.8	464.3	532.2
135°	213.8	231.7	312.6	443.5	501.3
137.5°	223.9	241.3	312.5	425.8	475.7
140°	231.5	249.3	312.0	411.2	459.1
142.5°	240.0	254.9	313.5	399.5	442.5
145°	252.2	265.1	315.1	383.8	418.3
147.5°	262.7	275.2	317.9	368.0	397.8
150°	271.7	280.3	318.9	362.8	383.7
152.5°	278.8	287.9	319.9	355.7	375.1
155°	288.1	294.8	322.7	346.9	361.0
157.5°	299.6	303.7	323.3	342.9	353.0
160°	305.7	308.7	325.8	339.8	348.4
162.5°	309.2	312.8	326.3	337.3	343.9
165°	318.3	319.5	326.4	333.5	338.4
167.5°	324.4	323.3	329.3	332.5	334.5
170°	326.4	325.8	328.3	329.0	331.5
172.5°	331.0	328.9	329.8	328.0	329.9
175°	333.3	331.5	330.2	328.3	325.8
177.5°	334.4	331.4	329.8	327.8	328.3
180°	330.8	330.8	330.8	330.8	330.8

(END OF REPORT)