

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: P561874

Luminaire Tested: **SQ4-PR1-050U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561874  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-050U-125D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 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: 7596.7 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

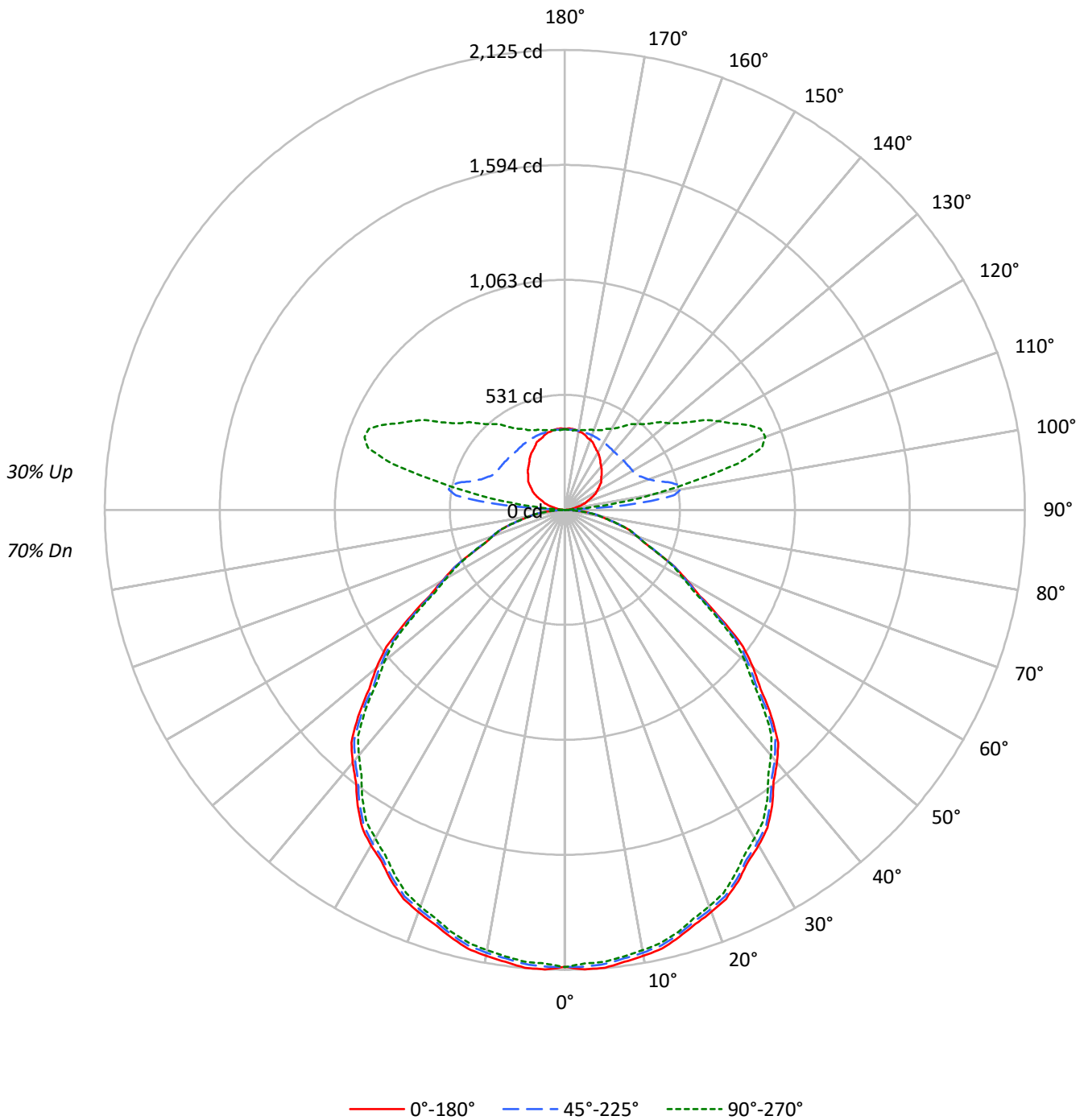
Input Watts (W): 71.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	106	106	106	106	94	94	94	84	84	84	74	74	74	70		
1	103	98	94	91	97	93	90	87	83	81	78	74	72	71	66	65	63	59		
2	94	86	80	75	88	82	76	72	74	69	66	66	63	60	59	56	54	50		
3	86	76	69	63	81	72	66	60	65	60	56	59	54	51	52	49	46	43		
4	79	68	60	54	74	64	57	52	58	52	48	52	48	44	47	43	40	37		
5	72	61	52	46	68	58	50	45	52	46	42	47	42	38	43	39	35	33		
6	67	55	46	40	63	52	45	39	47	41	36	43	38	34	39	34	31	29		
7	62	50	41	36	59	47	40	35	43	37	32	39	34	30	35	31	28	26		
8	58	45	37	32	54	43	36	31	39	33	29	36	31	27	33	28	25	23		
9	54	41	34	28	51	40	32	28	36	30	26	33	28	24	30	26	23	21		
10	50	38	31	26	48	36	30	25	33	28	24	31	26	22	28	24	21	19		

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

	0°	45°	90°
0°	19489	19489	19489
5°	19665	19513	19412
10°	19602	19466	19364
15°	19516	19395	19291
20°	19418	19293	19150
25°	19281	19152	18930
30°	19073	18938	18666
35°	18791	18628	18361
40°	18363	18166	17837
45°	17615	17307	16950
50°	16295	15904	15591
55°	14223	13901	13608
60°	11985	11885	11649
65°	10368	10407	10326
70°	9522	9571	9571
75°	9144	9144	9211
80°	8602	8698	8602
85°	6934	7707	7707



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.8	2.6
10°-20°	571.5	7.5
20°-30°	862.0	11.3
30°-40°	1027.1	13.5
40°-50°	1012.6	13.3
50°-60°	773.9	10.2
60°-70°	478.9	6.3
70°-80°	272.0	3.6
80°-90°	82.8	1.1
90°-100°	169.9	2.2
100°-110°	483.4	6.4
110°-120°	463.2	6.1
120°-130°	366.6	4.8
130°-140°	294.2	3.9
140°-150°	230.4	3.0
150°-160°	168.5	2.2
160°-170°	104.4	1.4
170°-180°	35.4	0.5
0°-30°	1633.3	21.5
0°-40°	2660.4	35.0
0°-60°	4447.0	58.5
0°-90°	5280.6	69.5
90°-120°	1116.5	14.7
90°-150°	2007.7	26.4
90°-180°	2316.0	30.5
0°-180°	7596.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2112	2112	2112	2112	2112	
5°	2123	2100	2107	2100	2096	201
15°	2043	2022	2030	2023	2020	577
25°	1894	1871	1881	1861	1860	872
35°	1668	1649	1654	1632	1630	1041
45°	1350	1332	1326	1303	1299	1034
55°	884	870	864	850	846	792
65°	475	471	477	473	473	481
75°	256	256	256	258	258	271
85°	66	69	73	73	73	76
90°	0	0	0	0	0	3
95°	18	73	329	114	70	21
105°	75	114	493	870	827	79
115°	140	169	374	791	929	137
125°	197	218	356	592	707	176
135°	241	261	352	500	565	186
145°	284	299	355	433	471	178
155°	325	332	364	391	407	150
165°	359	360	368	376	381	101
175°	376	374	372	370	367	36
180°	373	373	373	373	373	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2112.4	2112.4	2112.4	2112.4	2112.4
2.5°	2125.4	2106.9	2112.4	2107.8	2097.8
5°	2123.3	2100.1	2106.9	2099.5	2096.0
7.5°	2106.9	2084.1	2090.9	2083.6	2081.4
10°	2092.3	2071.0	2077.8	2070.4	2066.9
12.5°	2076.3	2053.6	2061.8	2053.0	2049.4
15°	2043.2	2021.9	2030.5	2023.1	2019.6
17.5°	2006.8	1984.1	1992.6	1984.2	1979.5
20°	1977.7	1956.4	1965.0	1952.2	1950.4
22.5°	1945.7	1924.3	1933.0	1915.8	1915.5
25°	1894.0	1870.9	1881.3	1861.2	1859.5
27.5°	1832.5	1811.2	1819.8	1799.4	1797.2
30°	1790.3	1769.0	1777.6	1755.7	1752.1
32.5°	1742.3	1722.4	1729.5	1707.7	1705.5
35°	1668.4	1648.8	1653.9	1632.0	1630.2
37.5°	1584.4	1566.6	1569.4	1545.4	1543.6
40°	1524.7	1506.9	1508.3	1482.8	1481.0
42.5°	1459.2	1441.4	1439.9	1414.4	1412.6
45°	1350.0	1332.2	1326.4	1302.6	1299.1
47.5°	1225.6	1207.8	1196.8	1177.5	1175.0
50°	1135.3	1117.5	1108.0	1091.5	1086.2
52.5°	1037.8	1020.0	1012.0	996.9	991.6
55°	884.2	870.0	864.2	849.6	846.0
57.5°	738.3	728.7	727.0	712.8	711.4
60°	649.5	644.2	644.1	631.3	631.3
62.5°	573.8	569.9	572.8	564.4	562.9
65°	474.9	471.3	476.7	473.0	473.0
67.5°	396.6	396.6	399.9	398.5	398.5
70°	353.0	353.0	354.8	354.8	354.8
72.5°	313.7	312.2	316.9	316.9	315.5
75°	256.5	256.5	256.5	258.4	258.4
77.5°	199.8	200.1	201.6	201.2	199.8
80°	161.9	163.7	163.7	161.9	161.9
82.5°	124.1	125.9	125.9	125.5	124.1
85°	65.5	69.1	72.8	72.8	72.8
87.5°	18.9	24.6	29.1	29.1	27.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.7	30.1	69.8	20.3	15.3
95°	18.4	73.2	328.9	113.8	70.2
97.5°	33.9	85.7	506.5	362.5	248.4
100°	44.7	93.2	545.1	552.1	425.3
102.5°	56.6	101.2	536.6	706.7	596.0
105°	75.1	114.0	492.6	870.2	827.2
107.5°	94.0	128.8	441.3	916.3	954.5
110°	107.0	139.6	411.8	898.6	984.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	119.5	150.4	392.0	856.9	979.5
115°	139.6	168.8	373.6	791.4	929.3
117.5°	157.4	184.7	362.6	719.7	865.8
120°	171.5	194.4	361.5	678.7	818.7
122.5°	182.9	205.8	358.7	642.8	772.8
125°	197.1	218.5	356.5	591.7	707.4
127.5°	212.5	232.6	355.4	561.2	656.5
130°	220.4	240.5	353.7	539.9	623.1
132.5°	229.0	248.5	353.7	523.3	599.8
135°	241.0	261.1	352.3	499.8	564.9
137.5°	252.3	271.9	352.2	479.9	536.2
140°	260.9	281.0	351.6	463.4	517.5
142.5°	270.5	287.3	353.3	450.2	498.7
145°	284.2	298.8	355.1	432.6	471.4
147.5°	296.0	310.2	358.2	414.7	448.3
150°	306.2	315.9	359.4	408.8	432.4
152.5°	314.2	324.4	360.5	400.9	422.8
155°	324.6	332.3	363.6	390.9	406.9
157.5°	337.7	342.3	364.3	386.4	397.8
160°	344.5	348.0	367.2	383.0	392.7
162.5°	348.5	352.5	367.7	380.1	387.6
165°	358.7	360.1	367.9	375.8	381.4
167.5°	365.6	364.4	371.1	374.7	377.0
170°	367.9	367.2	370.0	370.8	373.6
172.5°	373.0	370.6	371.7	369.6	371.9
175°	375.7	373.6	372.1	370.0	367.2
177.5°	376.8	373.5	371.7	369.5	370.0
180°	372.9	372.9	372.9	372.9	372.9

(END OF REPORT)