

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: P563354

Luminaire Tested: **SQ4-PP3-050U-125D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563354  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-125D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

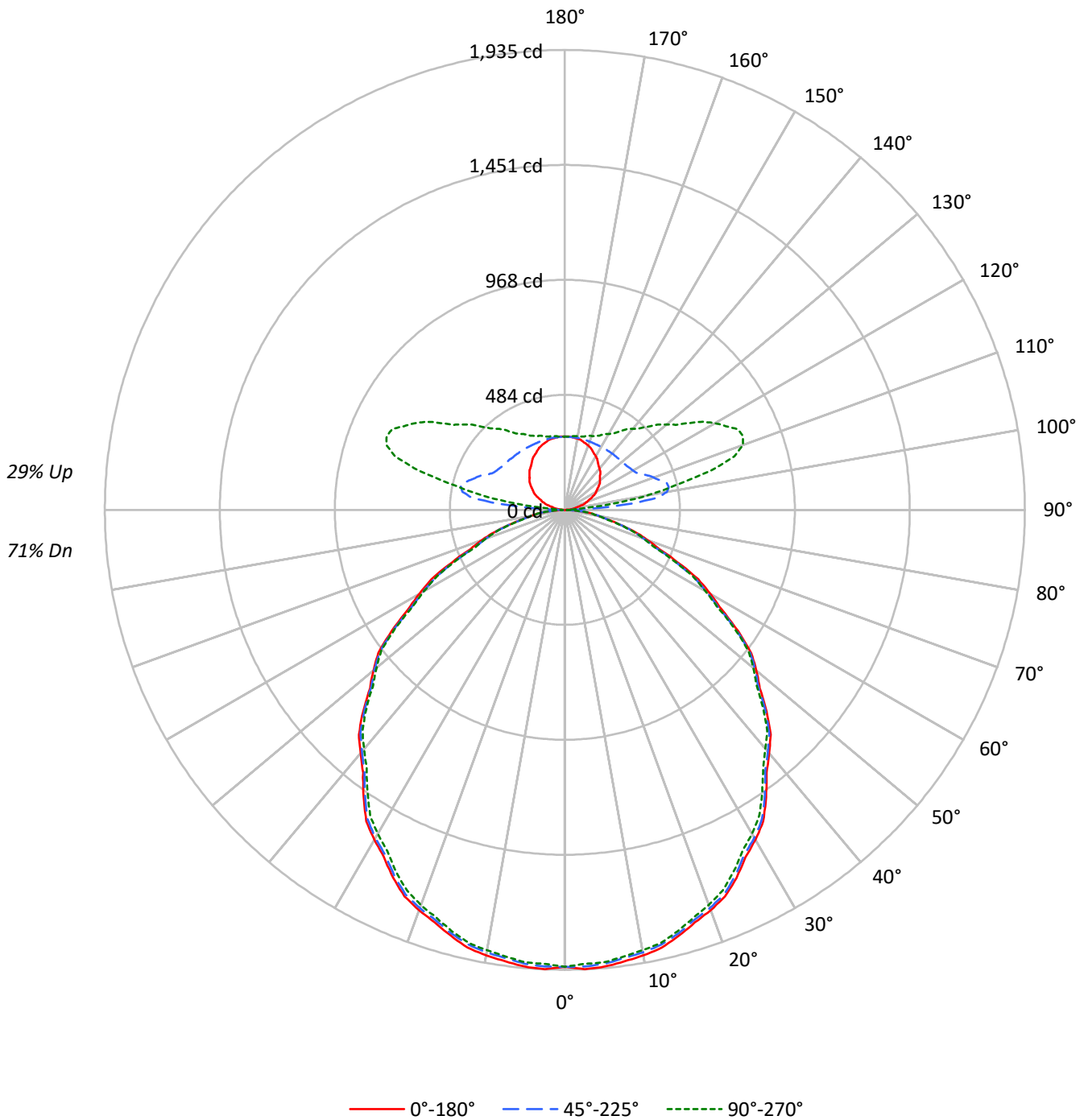
Lumens per Lamp: N/A  
Luminaire Lumens: 6933.9 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 55.9  
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	60
2	94	86	80	75	89	82	76	72	74	69	66	66	63	60	59	57	55	51
3	86	76	69	63	81	72	66	60	65	60	56	59	55	51	53	50	47	43
4	79	68	59	53	74	64	57	51	58	52	48	53	48	44	47	44	40	37
5	72	60	52	46	68	58	50	44	52	46	41	47	42	38	43	39	35	33
6	67	54	46	40	63	52	44	39	47	41	36	43	38	34	39	34	31	29
7	62	49	41	35	58	47	39	34	43	37	32	39	34	30	35	31	28	25
8	57	45	37	31	54	43	35	30	39	33	29	36	31	27	33	28	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	22	20
10	50	38	30	25	48	36	29	25	33	27	23	31	25	22	28	24	20	19

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

	0°	45°	90°
0°	17738	17738	17738
5°	17868	17759	17697
10°	17838	17711	17633
15°	17720	17623	17526
20°	17602	17503	17371
25°	17394	17273	17101
30°	17071	16982	16766
35°	16624	16511	16302
40°	16093	15992	15809
45°	15653	15544	15390
50°	15091	14995	14850
55°	14311	14121	14012
60°	13027	12655	12592
65°	11477	10998	10961
70°	9908	9501	9501
75°	8530	8409	8288
80°	7518	7608	7433
85°	5886	6426	6426



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.8	2.6
10°-20°	519.1	7.5
20°-30°	777.5	11.2
30°-40°	912.0	13.2
40°-50°	914.9	13.2
50°-60°	780.4	11.3
60°-70°	509.0	7.3
70°-80°	255.4	3.7
80°-90°	71.9	1.0
90°-100°	147.9	2.1
100°-110°	401.8	5.8
110°-120°	413.2	6.0
120°-130°	330.3	4.8
130°-140°	259.5	3.7
140°-150°	199.0	2.9
150°-160°	143.1	2.1
160°-170°	87.5	1.3
170°-180°	29.5	0.4
0°-30°	1478.4	21.3
0°-40°	2390.4	34.5
0°-60°	4085.7	58.9
0°-90°	4921.9	71.0
90°-120°	962.9	13.9
90°-150°	1751.8	25.3
90°-180°	2012.0	29.0
0°-180°	6933.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1923	1923	1923	1923	1923	
5°	1929	1911	1918	1911	1911	183
15°	1855	1837	1845	1838	1835	523
25°	1709	1689	1697	1682	1680	786
35°	1476	1461	1466	1449	1447	922
45°	1200	1192	1191	1180	1180	924
55°	890	886	878	873	871	791
65°	526	516	504	500	502	525
75°	239	239	236	234	232	260
85°	56	60	61	61	61	65
90°	1	4	7	9	9	4
95°	22	81	258	112	75	23
105°	71	111	442	673	633	76
115°	127	154	354	704	802	125
125°	174	199	320	539	636	155
135°	210	233	311	439	495	162
145°	243	260	307	373	401	152
155°	274	284	305	335	345	127
165°	297	301	306	319	320	84
175°	308	309	307	311	310	29
180°	308	308	308	308	308	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1922.6	1922.6	1922.6	1922.6	1922.6
2.5°	1934.7	1918.9	1922.6	1919.7	1911.8
5°	1929.3	1911.2	1917.5	1910.8	1910.8
7.5°	1916.1	1896.4	1902.7	1895.9	1895.6
10°	1904.0	1884.2	1890.5	1883.8	1882.1
12.5°	1886.5	1866.7	1874.4	1866.3	1865.9
15°	1855.2	1837.0	1845.0	1838.2	1834.9
17.5°	1819.8	1800.0	1809.7	1800.2	1798.9
20°	1792.8	1773.0	1782.7	1769.2	1769.2
22.5°	1760.5	1740.7	1751.7	1734.2	1734.2
25°	1708.6	1688.8	1696.8	1681.6	1679.9
27.5°	1646.9	1627.4	1635.8	1618.6	1618.2
30°	1602.4	1584.3	1594.0	1575.4	1573.8
32.5°	1553.9	1537.1	1544.1	1525.5	1523.9
35°	1476.0	1461.2	1465.9	1449.0	1447.4
37.5°	1394.1	1379.0	1384.4	1369.9	1369.2
40°	1336.2	1326.3	1327.8	1315.9	1312.6
42.5°	1282.3	1271.1	1272.5	1260.7	1260.0
45°	1199.7	1191.5	1191.3	1179.5	1179.5
47.5°	1112.1	1105.8	1104.0	1094.2	1093.9
50°	1051.4	1046.5	1044.7	1036.2	1034.6
52.5°	988.1	985.8	980.0	972.9	972.6
55°	889.7	886.4	877.9	872.8	871.1
57.5°	782.8	776.2	766.7	759.3	760.6
60°	706.0	699.4	685.8	682.4	682.4
62.5°	631.9	624.0	610.3	605.6	608.3
65°	525.7	515.8	503.8	500.5	502.1
67.5°	429.3	420.4	407.4	407.4	406.1
70°	367.3	362.4	352.2	352.2	352.2
72.5°	312.1	309.7	302.3	302.3	300.9
75°	239.3	239.3	235.9	234.2	232.5
77.5°	179.3	179.9	178.3	176.5	173.6
80°	141.5	144.8	143.2	141.5	139.9
82.5°	106.5	109.8	109.5	106.5	106.2
85°	55.6	60.5	60.7	60.7	60.7
87.5°	15.0	20.9	23.0	23.4	24.7
90°	1.0	3.9	6.9	8.9	8.9
92.5°	8.9	40.5	70.3	30.2	25.6
95°	21.8	80.9	257.6	112.1	75.3
97.5°	36.1	89.3	394.9	307.3	215.8
100°	45.6	95.0	437.0	442.9	357.7
102.5°	55.1	100.6	448.0	547.8	472.6
105°	71.3	111.1	441.9	672.9	633.1
107.5°	88.2	123.3	416.3	737.4	748.5
110°	100.1	132.0	397.3	750.1	797.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	110.4	140.8	378.3	739.6	811.1
115°	126.8	154.0	353.7	703.7	801.6
117.5°	142.3	168.2	338.1	652.9	763.1
120°	152.6	177.8	330.9	618.8	728.3
122.5°	161.3	186.5	326.2	584.6	690.2
125°	174.4	198.6	320.0	539.2	636.1
127.5°	186.1	210.1	316.7	504.8	588.0
130°	193.2	216.5	315.1	483.2	557.8
132.5°	200.3	223.6	313.5	464.8	530.9
135°	210.1	233.3	311.1	439.2	495.4
137.5°	220.6	241.7	309.9	416.6	463.9
140°	226.9	247.2	309.1	402.2	444.9
142.5°	233.2	252.0	308.3	391.0	426.6
145°	242.8	260.2	307.2	373.2	401.3
147.5°	253.5	268.4	306.2	359.2	381.3
150°	260.6	273.2	306.2	351.1	368.6
152.5°	266.1	277.2	305.4	343.9	358.3
155°	274.5	284.1	305.2	335.1	344.8
157.5°	282.6	290.1	305.2	329.1	336.5
160°	287.3	294.1	305.2	325.1	330.9
162.5°	292.1	297.3	306.0	321.9	326.2
165°	297.2	301.1	306.2	319.1	320.0
167.5°	302.6	304.5	307.2	315.7	316.5
170°	304.2	306.1	307.2	314.1	314.1
172.5°	305.8	306.9	307.2	312.5	312.5
175°	308.1	309.1	307.2	311.1	310.1
177.5°	308.9	308.9	306.6	309.7	308.1
180°	308.1	308.1	308.1	308.1	308.1

(END OF REPORT)