

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: P562236

Luminaire Tested: **SQ4-PW1-050U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562236  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-050U-125D-92765-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

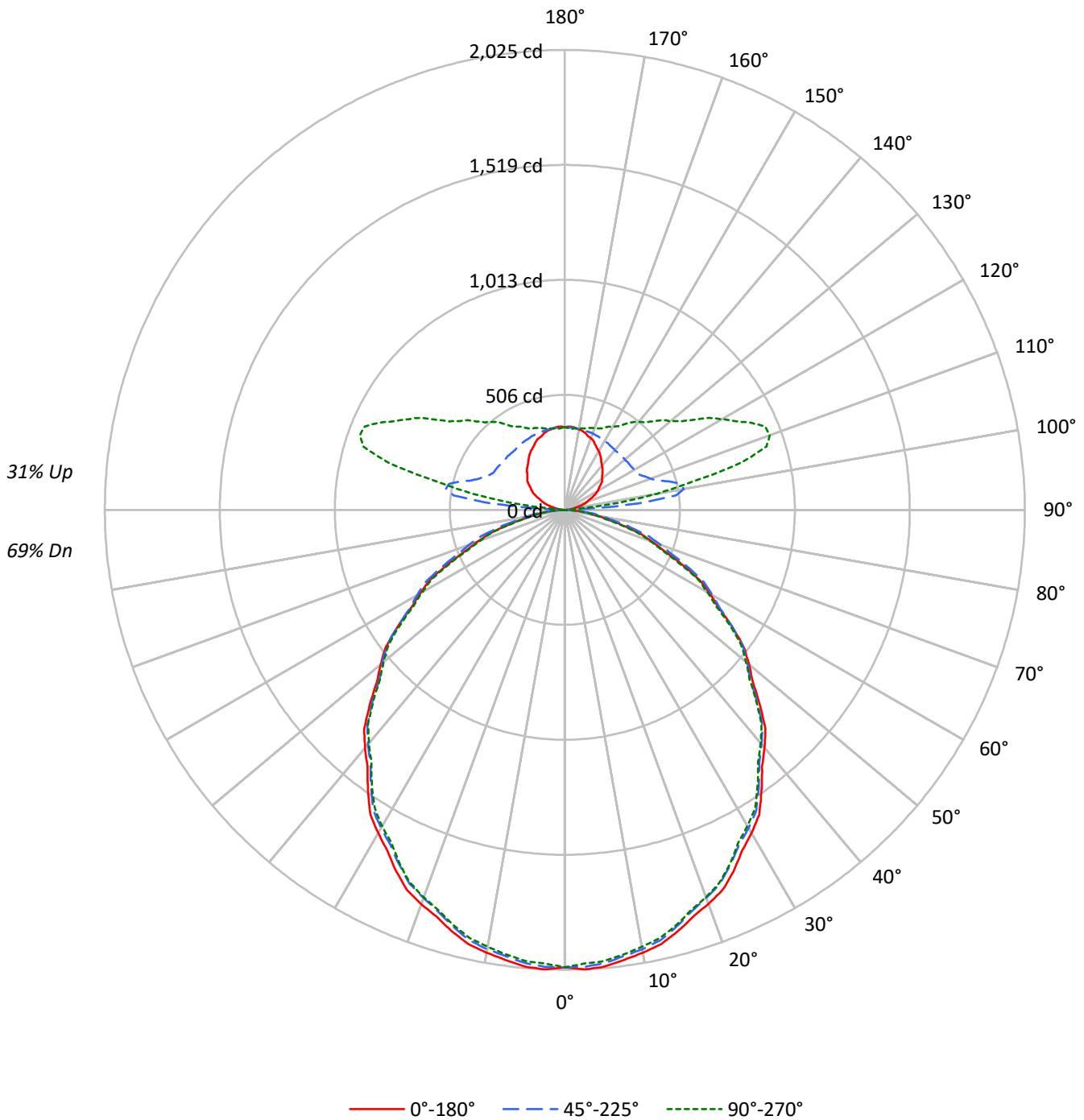
Lumens per Lamp: N/A  
Luminaire Lumens: 7382.1 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 71.5  
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	94	94	94	84	84	84	74	74	74	69
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	64	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	55	53	49
3	85	75	68	62	80	72	65	59	64	59	55	58	53	50	51	48	45	42
4	78	67	59	53	73	64	56	51	57	51	47	51	47	43	46	42	39	36
5	72	60	51	45	68	57	49	44	51	45	40	46	41	37	41	37	34	31
6	66	54	45	39	62	51	44	38	46	40	35	42	37	33	38	33	30	28
7	61	49	40	35	58	46	39	34	42	36	31	38	33	29	34	30	27	24
8	57	44	36	31	54	42	35	30	39	32	28	35	30	26	32	27	24	22
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20	18

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

	0°	45°	90°
0°	18580	18580	18580
5°	18700	18552	18470
10°	18551	18401	18300
15°	18354	18150	18082
20°	18134	17856	17821
25°	17881	17556	17501
30°	17504	17238	17126
35°	17006	16766	16666
40°	16475	16220	16155
45°	15835	15626	15557
50°	15179	15051	14949
55°	14469	14469	14240
60°	13587	13849	13358
65°	12433	13053	12123
70°	10960	12012	10674
75°	9361	10751	9108
80°	7258	9048	7353
85°	4700	6944	6203



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.6	2.6
10°-20°	535.4	7.3
20°-30°	794.1	10.8
30°-40°	929.2	12.6
40°-50°	925.1	12.5
50°-60°	798.8	10.8
60°-70°	575.0	7.8
70°-80°	301.5	4.1
80°-90°	74.8	1.0
90°-100°	165.7	2.2
100°-110°	471.4	6.4
110°-120°	451.7	6.1
120°-130°	357.5	4.8
130°-140°	286.9	3.9
140°-150°	224.6	3.0
150°-160°	164.4	2.2
160°-170°	101.8	1.4
170°-180°	34.5	0.5
0°-30°	1519.1	20.6
0°-40°	2448.3	33.2
0°-60°	4172.2	56.5
0°-90°	5123.5	69.4
90°-120°	1088.8	14.7
90°-150°	1957.8	26.5
90°-180°	2259.0	30.6
0°-180°	7382.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2014	2014	2014	2014	2014	
5°	2019	1996	2003	1998	1994	191
15°	1922	1897	1900	1897	1893	542
25°	1756	1727	1725	1714	1719	808
35°	1510	1489	1489	1474	1480	944
45°	1214	1203	1198	1194	1192	936
55°	900	898	900	887	885	803
65°	570	587	598	574	555	564
75°	263	287	302	282	256	281
85°	44	58	66	62	59	59
90°	0	0	0	0	0	2
95°	18	71	321	111	68	21
105°	73	111	480	849	807	78
115°	136	165	364	772	906	134
125°	192	213	348	577	690	172
135°	235	255	344	487	551	181
145°	277	291	346	422	460	173
155°	317	324	355	381	397	146
165°	350	351	359	366	372	98
175°	366	364	363	361	358	35
180°	364	364	364	364	364	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2013.8	2013.8	2013.8	2013.8	2013.8
2.5°	2025.1	2008.5	2013.8	2009.3	1999.6
5°	2019.1	1996.5	2003.1	1997.7	1994.3
7.5°	1998.5	1977.7	1982.5	1976.8	1974.7
10°	1980.1	1959.2	1964.1	1956.9	1953.4
12.5°	1958.8	1936.6	1941.4	1934.2	1932.2
15°	1921.5	1897.2	1900.2	1896.6	1893.1
17.5°	1878.2	1853.6	1854.1	1848.4	1847.7
20°	1847.0	1821.0	1818.6	1811.6	1815.1
22.5°	1812.9	1785.5	1783.1	1773.3	1778.1
25°	1756.5	1727.0	1724.6	1714.0	1719.2
27.5°	1691.2	1662.1	1662.1	1647.3	1652.9
30°	1643.0	1615.2	1618.1	1600.5	1607.5
32.5°	1591.9	1566.9	1568.4	1550.8	1557.8
35°	1509.9	1489.1	1488.6	1474.5	1479.7
37.5°	1426.1	1407.7	1404.8	1396.7	1398.1
40°	1367.9	1352.3	1346.7	1341.3	1341.3
42.5°	1306.9	1292.7	1287.0	1283.1	1281.7
45°	1213.6	1203.2	1197.6	1194.0	1192.3
47.5°	1121.3	1111.6	1106.8	1104.3	1102.5
50°	1057.5	1050.5	1048.6	1043.2	1041.5
52.5°	993.6	989.4	987.5	980.8	979.0
55°	899.5	897.8	899.5	887.1	885.3
57.5°	801.6	804.4	810.1	793.3	789.2
60°	736.3	743.3	750.5	730.8	723.9
62.5°	669.6	680.7	690.9	668.3	658.6
65°	569.5	586.9	597.9	574.4	555.3
67.5°	473.0	494.5	507.8	482.5	460.9
70°	406.3	430.6	445.3	419.9	395.7
72.5°	348.1	375.2	387.1	363.2	338.9
75°	262.6	286.9	301.6	281.5	255.5
77.5°	186.3	209.2	221.4	203.9	182.4
80°	136.6	160.9	170.3	155.7	138.4
82.5°	96.9	117.0	123.5	114.7	102.9
85°	44.4	58.2	65.6	62.0	58.6
87.5°	11.4	21.1	27.0	27.0	28.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.5	29.3	68.0	19.8	14.9
95°	18.0	71.4	320.7	111.0	68.4
97.5°	33.0	83.6	494.0	353.5	242.2
100°	43.5	90.9	531.6	538.4	414.7
102.5°	55.2	98.7	523.3	689.2	581.2
105°	73.3	111.1	480.4	848.6	806.7
107.5°	91.7	125.6	430.4	893.5	930.8
110°	104.4	136.1	401.6	876.3	960.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	116.5	146.7	382.3	835.7	955.2
115°	136.2	164.6	364.3	771.7	906.2
117.5°	153.5	180.1	353.6	701.8	844.3
120°	167.3	189.6	352.5	661.9	798.4
122.5°	178.3	200.6	349.8	626.8	753.6
125°	192.2	213.1	347.7	577.0	689.9
127.5°	207.2	226.8	346.6	547.2	640.2
130°	215.0	234.6	344.9	526.5	607.6
132.5°	223.3	242.3	344.9	510.3	584.9
135°	235.0	254.6	343.5	487.4	550.9
137.5°	246.1	265.1	343.4	468.0	522.9
140°	254.4	274.0	342.9	451.9	504.6
142.5°	263.8	280.1	344.5	439.0	486.4
145°	277.2	291.4	346.3	421.8	459.7
147.5°	288.7	302.4	349.4	404.4	437.1
150°	298.6	308.1	350.5	398.7	421.7
152.5°	306.4	316.4	351.6	390.9	412.3
155°	316.6	324.0	354.6	381.2	396.8
157.5°	329.3	333.8	355.3	376.8	387.9
160°	335.9	339.3	358.1	373.5	382.9
162.5°	339.8	343.7	358.6	370.7	378.0
165°	349.8	351.1	358.8	366.5	371.9
167.5°	356.5	355.3	361.9	365.4	367.6
170°	358.8	358.1	360.8	361.6	364.3
172.5°	363.7	361.4	362.5	360.5	362.6
175°	366.4	364.3	362.9	360.8	358.1
177.5°	367.5	364.2	362.5	360.3	360.8
180°	363.6	363.6	363.6	363.6	363.6

(END OF REPORT)