

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: P561872

Luminaire Tested: **SQ4-PR1-050U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561872  
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 (4500K)  
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 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7408.1 lumens  
Efficiency: N/A  
Efficacy: 103.6 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

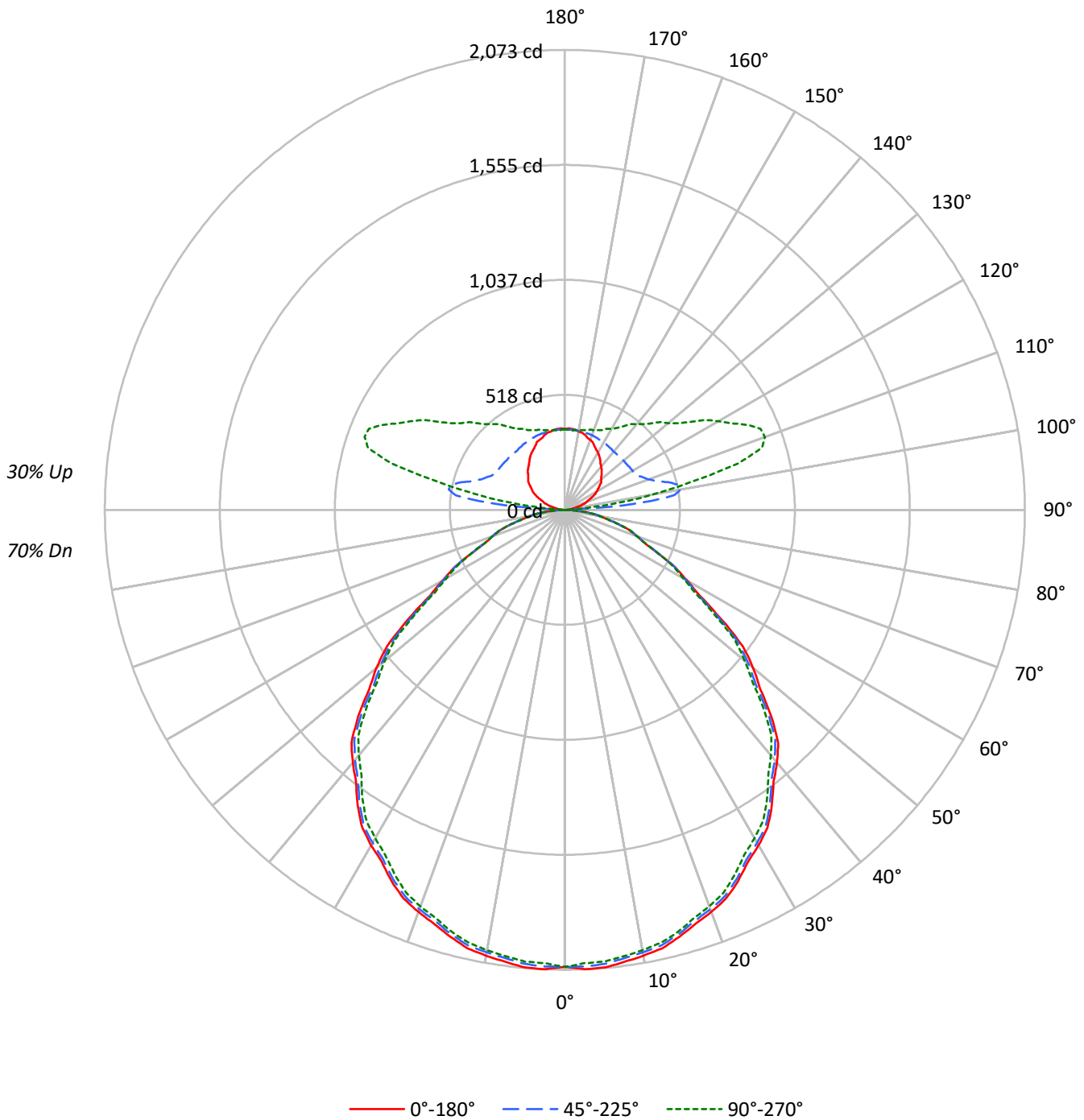
Input Watts (W): 71.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	19005	19005	19005
5°	19176	19029	18929
10°	19116	18983	18882
15°	19032	18913	18811
20°	18936	18814	18674
25°	18802	18676	18459
30°	18600	18467	18203
35°	18325	18165	17905
40°	17907	17714	17394
45°	17177	16876	16529
50°	15891	15509	15203
55°	13870	13557	13270
60°	11688	11590	11361
65°	10110	10149	10071
70°	9285	9334	9334
75°	8919	8919	8980
80°	8389	8485	8389
85°	6764	7516	7516



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.8	2.6
10°-20°	557.3	7.5
20°-30°	840.6	11.3
30°-40°	1001.6	13.5
40°-50°	987.5	13.3
50°-60°	754.7	10.2
60°-70°	467.0	6.3
70°-80°	265.3	3.6
80°-90°	80.7	1.1
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°	1592.8	21.5
0°-40°	2594.4	35.0
0°-60°	4336.5	58.5
0°-90°	5149.5	69.5
90°-120°	1088.8	14.7
90°-150°	1957.8	26.4
90°-180°	2259.0	30.5
0°-180°	7408.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2060	2060	2060	2060	2060	
5°	2070	2048	2055	2047	2044	196
15°	1992	1972	1980	1973	1969	562
25°	1847	1824	1835	1815	1813	850
35°	1627	1608	1613	1592	1590	1015
45°	1316	1299	1293	1270	1267	1009
55°	862	848	843	828	825	773
65°	463	460	465	461	461	469
75°	250	250	250	252	252	264
85°	64	67	71	71	71	74
90°	0	0	0	0	0	3
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°	2059.9	2059.9	2059.9	2059.9	2059.9
2.5°	2072.7	2054.6	2059.9	2055.4	2045.7
5°	2070.5	2048.0	2054.6	2047.4	2043.9
7.5°	2054.6	2032.4	2039.0	2031.8	2029.7
10°	2040.4	2019.6	2026.2	2019.0	2015.5
12.5°	2024.8	2002.6	2010.6	2002.0	1998.5
15°	1992.5	1971.7	1980.1	1972.9	1969.4
17.5°	1957.0	1934.8	1943.1	1934.9	1930.4
20°	1928.6	1907.8	1916.2	1903.7	1902.0
22.5°	1897.4	1876.6	1885.0	1868.3	1867.9
25°	1847.0	1824.4	1834.6	1815.0	1813.3
27.5°	1787.0	1766.2	1774.6	1754.7	1752.6
30°	1745.9	1725.0	1733.4	1712.1	1708.6
32.5°	1699.0	1679.6	1686.6	1665.3	1663.2
35°	1627.0	1607.9	1612.8	1591.5	1589.7
37.5°	1545.0	1527.7	1530.5	1507.0	1505.3
40°	1486.8	1469.5	1470.8	1446.0	1444.2
42.5°	1422.9	1405.6	1404.1	1379.3	1377.5
45°	1316.5	1299.1	1293.4	1270.3	1266.8
47.5°	1195.1	1177.8	1167.1	1148.2	1145.8
50°	1107.1	1089.8	1080.5	1064.4	1059.2
52.5°	1012.0	994.7	986.8	972.2	967.0
55°	862.3	848.4	842.8	828.5	825.0
57.5°	720.0	710.6	709.0	695.1	693.7
60°	633.4	628.2	628.1	615.7	615.7
62.5°	559.6	555.8	558.5	550.3	548.9
65°	463.1	459.6	464.9	461.3	461.3
67.5°	386.8	386.8	390.0	388.6	388.6
70°	344.2	344.2	346.0	346.0	346.0
72.5°	305.9	304.5	309.1	309.0	307.7
75°	250.2	250.2	250.2	251.9	251.9
77.5°	194.8	195.2	196.6	196.2	194.8
80°	157.9	159.6	159.7	157.9	157.9
82.5°	121.0	122.7	122.8	122.4	121.0
85°	63.9	67.3	71.0	71.0	71.0
87.5°	18.5	24.0	28.4	28.4	27.0
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°	<i>116.5</i>	146.7	382.3	835.7	955.2
115°	<i>136.2</i>	164.6	364.3	771.7	906.2
117.5°	<i>153.5</i>	180.1	353.6	701.8	844.3
120°	<i>167.3</i>	189.6	352.5	661.9	798.4
122.5°	<i>178.3</i>	200.6	349.8	626.8	753.6
125°	<i>192.2</i>	213.1	347.7	577.0	689.9
127.5°	<i>207.2</i>	226.8	346.6	547.2	640.2
130°	<i>215.0</i>	234.6	344.9	526.5	607.6
132.5°	<i>223.3</i>	242.3	344.9	510.3	584.9
135°	<i>235.0</i>	254.6	343.5	487.4	550.9
137.5°	<i>246.1</i>	265.1	343.4	468.0	522.9
140°	<i>254.4</i>	274.0	342.9	451.9	504.6
142.5°	<i>263.8</i>	280.1	344.5	439.0	486.4
145°	<i>277.2</i>	291.4	346.3	421.8	459.7
147.5°	<i>288.7</i>	302.4	349.4	404.4	437.1
150°	<i>298.6</i>	308.1	350.5	398.7	421.7
152.5°	<i>306.4</i>	316.4	351.6	390.9	412.3
155°	<i>316.6</i>	324.0	354.6	381.2	396.8
157.5°	<i>329.3</i>	333.8	355.3	376.8	387.9
160°	<i>335.9</i>	339.3	358.1	373.5	382.9
162.5°	<i>339.8</i>	343.7	358.6	370.7	378.0
165°	<i>349.8</i>	351.1	358.8	366.5	371.9
167.5°	<i>356.5</i>	355.3	361.9	365.4	367.6
170°	<i>358.8</i>	358.1	360.8	361.6	364.3
172.5°	<i>363.7</i>	361.4	362.5	360.5	362.6
175°	<i>366.4</i>	364.3	362.9	360.8	358.1
177.5°	<i>367.5</i>	364.2	362.5	360.3	360.8
180°	<i>363.6</i>	363.6	363.6	363.6	363.6

(END OF REPORT)