

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: P562186

Luminaire Tested: **SQ4-PW1-025U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562186  
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-PW1-025U-125D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES 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: 7309.1 lumens  
Efficiency: N/A  
Efficacy: 105.0 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

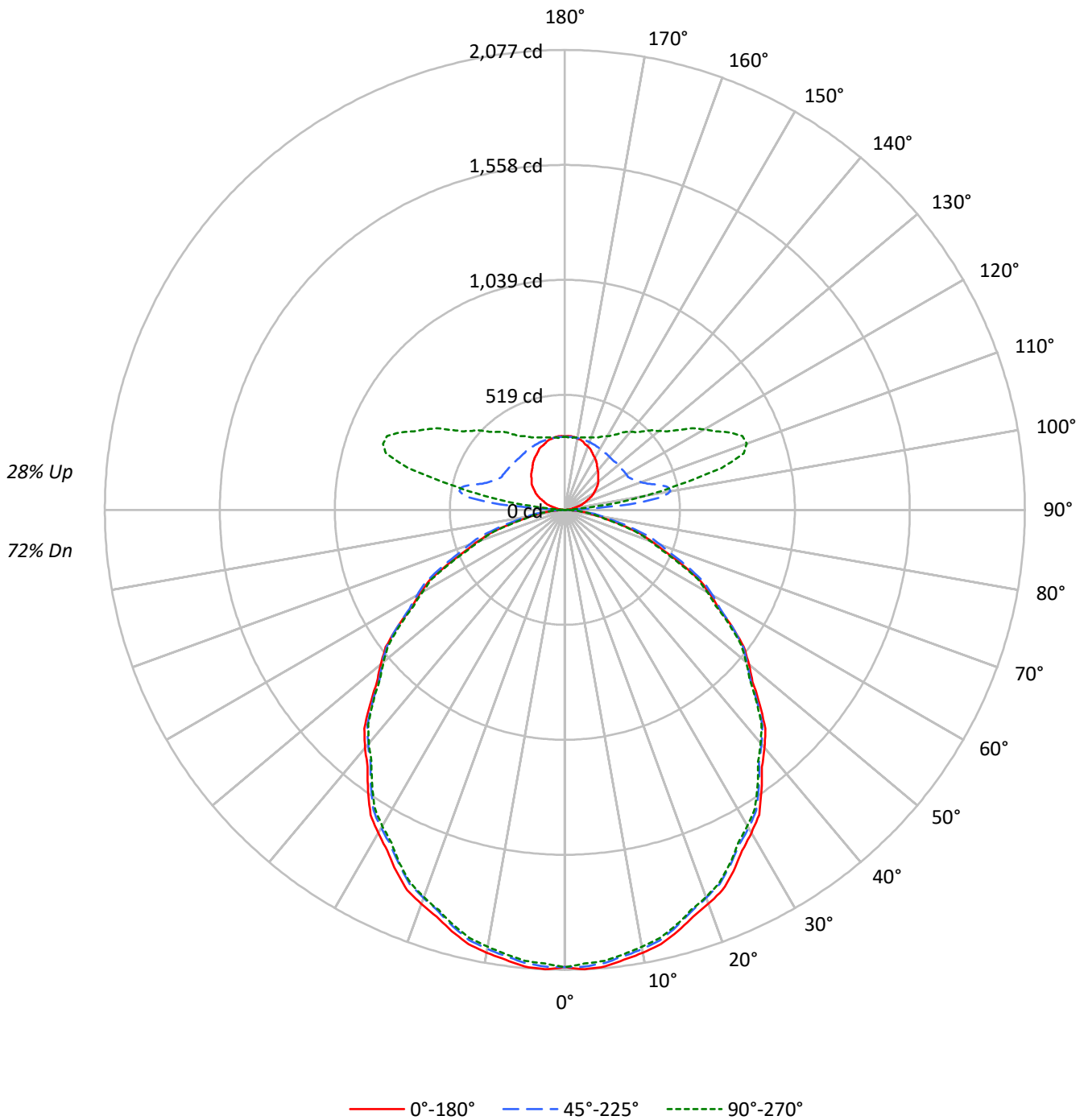
Input Watts (W): 69.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	76	76	76	72	
1	103	98	94	91	97	93	90	87	84	81	79	76	74	72	68	66	65	65	65	65	61	
2	94	86	80	75	89	82	76	71	74	69	66	67	63	60	60	57	55	55	55	55	51	
3	86	76	68	62	81	72	65	60	65	60	55	59	55	51	53	50	47	47	47	47	43	
4	78	67	59	53	74	64	57	51	58	52	47	53	48	44	47	44	40	47	44	40	37	
5	72	60	52	45	68	57	50	44	52	46	41	47	42	38	43	39	35	43	39	35	32	
6	67	54	46	40	63	52	44	38	47	41	36	43	37	33	39	34	31	39	34	31	29	
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	35	31	28	35	31	28	25	
8	57	45	37	31	54	43	35	30	39	33	28	36	30	27	33	28	25	33	28	25	23	
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	22	30	26	22	20	
10	50	38	30	25	47	36	29	24	33	27	23	31	25	22	28	24	20	28	24	20	19	

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

	0°	45°	90°
0°	19053	19053	19053
5°	19176	19024	18940
10°	19023	18869	18767
15°	18821	18612	18543
20°	18596	18310	18275
25°	18336	18003	17947
30°	17949	17677	17561
35°	17439	17193	17091
40°	16895	16631	16566
45°	16238	16024	15954
50°	15565	15434	15329
55°	14839	14839	14604
60°	13933	14201	13697
65°	12749	13385	12433
70°	11238	12320	10944
75°	9600	11026	9340
80°	7444	9282	7539
85°	4817	7124	6352



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.5	2.7
10°-20°	549.0	7.5
20°-30°	814.4	11.1
30°-40°	952.9	13.0
40°-50°	948.6	13.0
50°-60°	819.2	11.2
60°-70°	589.6	8.1
70°-80°	309.2	4.2
80°-90°	76.7	1.0
90°-100°	150.8	2.1
100°-110°	428.9	5.9
110°-120°	411.0	5.6
120°-130°	325.3	4.5
130°-140°	261.1	3.6
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°	1557.8	21.3
0°-40°	2510.7	34.4
0°-60°	4278.5	58.5
0°-90°	5254.0	71.9
90°-120°	990.7	13.6
90°-150°	1781.4	24.4
90°-180°	2055.0	28.1
0°-180°	7309.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2065	2065	2065	2065	2065	
5°	2070	2047	2054	2049	2045	196
15°	1970	1946	1949	1945	1941	555
25°	1801	1771	1768	1758	1763	828
35°	1548	1527	1526	1512	1517	968
45°	1244	1234	1228	1224	1223	960
55°	922	921	922	910	908	823
65°	584	602	613	589	570	579
75°	269	294	309	289	262	289
85°	46	60	67	64	60	60
90°	0	0	0	0	0	2
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°	2065.1	2065.1	2065.1	2065.1	2065.1
2.5°	2076.7	2059.6	2065.1	2060.5	2050.5
5°	2070.5	2047.4	2054.1	2048.6	2045.0
7.5°	2049.4	2028.1	2033.0	2027.2	2025.0
10°	2030.5	2009.1	2014.1	2006.7	2003.2
12.5°	2008.6	1985.9	1990.8	1983.5	1981.4
15°	1970.4	1945.5	1948.6	1944.9	1941.3
17.5°	1926.0	1900.8	1901.3	1895.5	1894.8
20°	1894.0	1867.3	1864.9	1857.7	1861.3
22.5°	1859.1	1831.0	1828.5	1818.4	1823.4
25°	1801.2	1771.0	1768.5	1757.7	1763.0
27.5°	1734.3	1704.4	1704.4	1689.3	1695.0
30°	1684.8	1656.3	1659.3	1641.3	1648.4
32.5°	1632.4	1606.8	1608.4	1590.3	1597.5
35°	1548.3	1527.0	1526.5	1512.1	1517.4
37.5°	1462.5	1443.6	1440.6	1432.3	1433.7
40°	1402.8	1386.8	1380.9	1375.5	1375.5
42.5°	1340.2	1325.6	1319.8	1315.8	1314.4
45°	1244.5	1233.8	1228.1	1224.4	1222.7
47.5°	1149.9	1139.9	1135.0	1132.4	1130.6
50°	1084.4	1077.3	1075.3	1069.8	1068.0
52.5°	1018.9	1014.6	1012.7	1005.7	1004.0
55°	922.5	920.7	922.5	909.7	907.9
57.5°	822.0	824.9	830.8	813.6	809.3
60°	755.1	762.2	769.6	749.4	742.3
62.5°	686.7	698.0	708.5	685.3	675.4
65°	584.0	601.8	613.1	589.1	569.5
67.5°	485.1	507.1	520.7	494.7	472.7
70°	416.6	441.6	456.7	430.6	405.7
72.5°	357.0	384.7	397.0	372.4	347.5
75°	269.3	294.2	309.3	288.7	262.0
77.5°	191.0	214.5	227.1	209.1	187.0
80°	140.1	165.0	174.7	159.7	141.9
82.5°	99.3	120.0	126.6	117.6	105.5
85°	45.5	59.7	67.3	63.6	60.0
87.5°	11.6	21.6	27.7	27.7	29.1
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)