

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: P562238

Luminaire Tested: **SQ4-PW1-050U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562238
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 (5700K)
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 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7570.1 lumens
Efficiency: N/A
Efficacy: 106.0 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

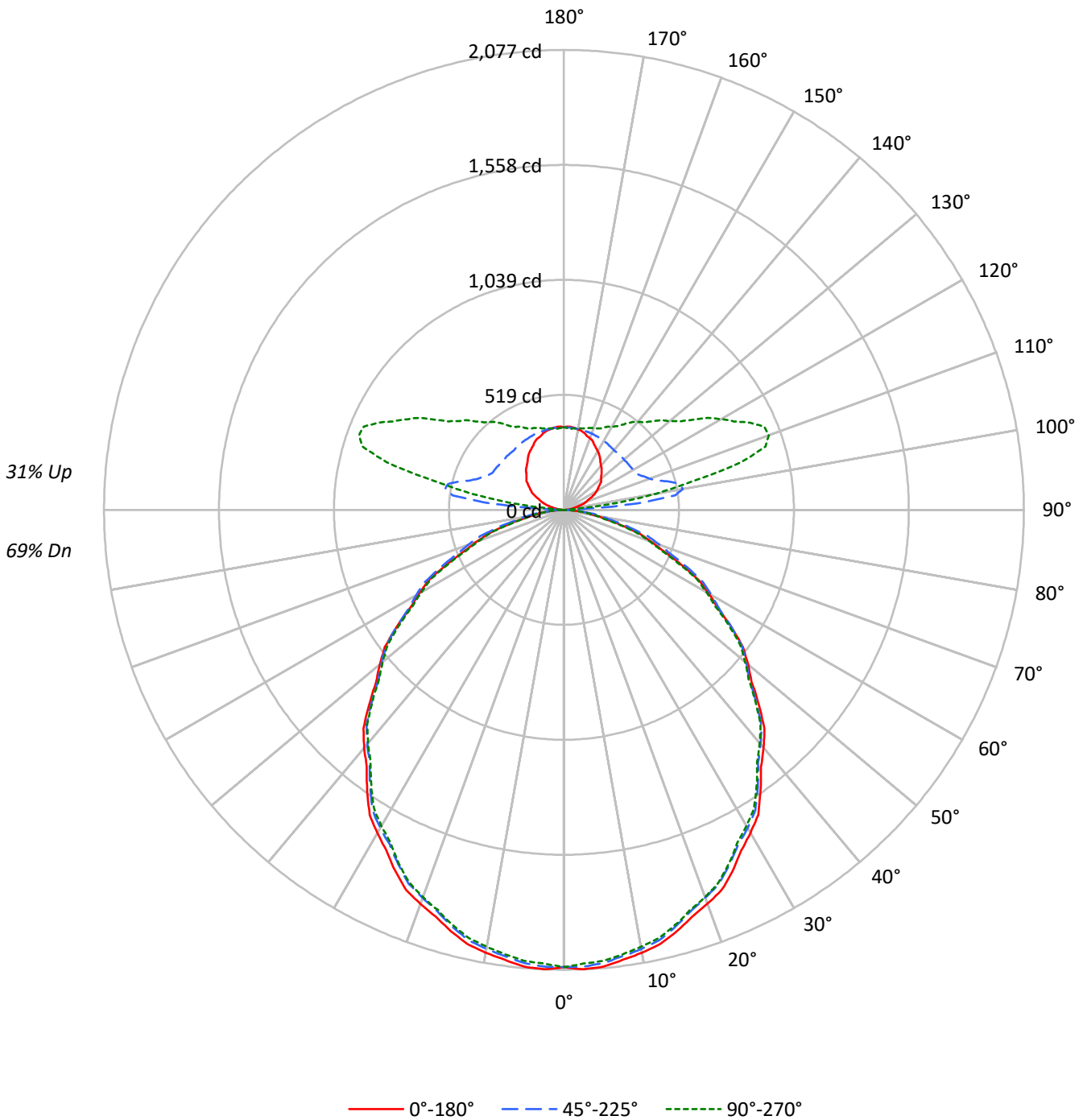
Input Watts (W): 71.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	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°	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	2.6
10°-20°	549.0	7.3
20°-30°	814.4	10.8
30°-40°	952.9	12.6
40°-50°	948.6	12.5
50°-60°	819.2	10.8
60°-70°	589.6	7.8
70°-80°	309.2	4.1
80°-90°	76.7	1.0
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°	1557.8	20.6
0°-40°	2510.7	33.2
0°-60°	4278.5	56.5
0°-90°	5254.0	69.4
90°-120°	1116.5	14.7
90°-150°	2007.7	26.5
90°-180°	2316.0	30.6
0°-180°	7570.1	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°	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°	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°	5.7	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)