

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: P564703

Luminaire Tested: **SQ4-PW1-050U-125D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564703
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

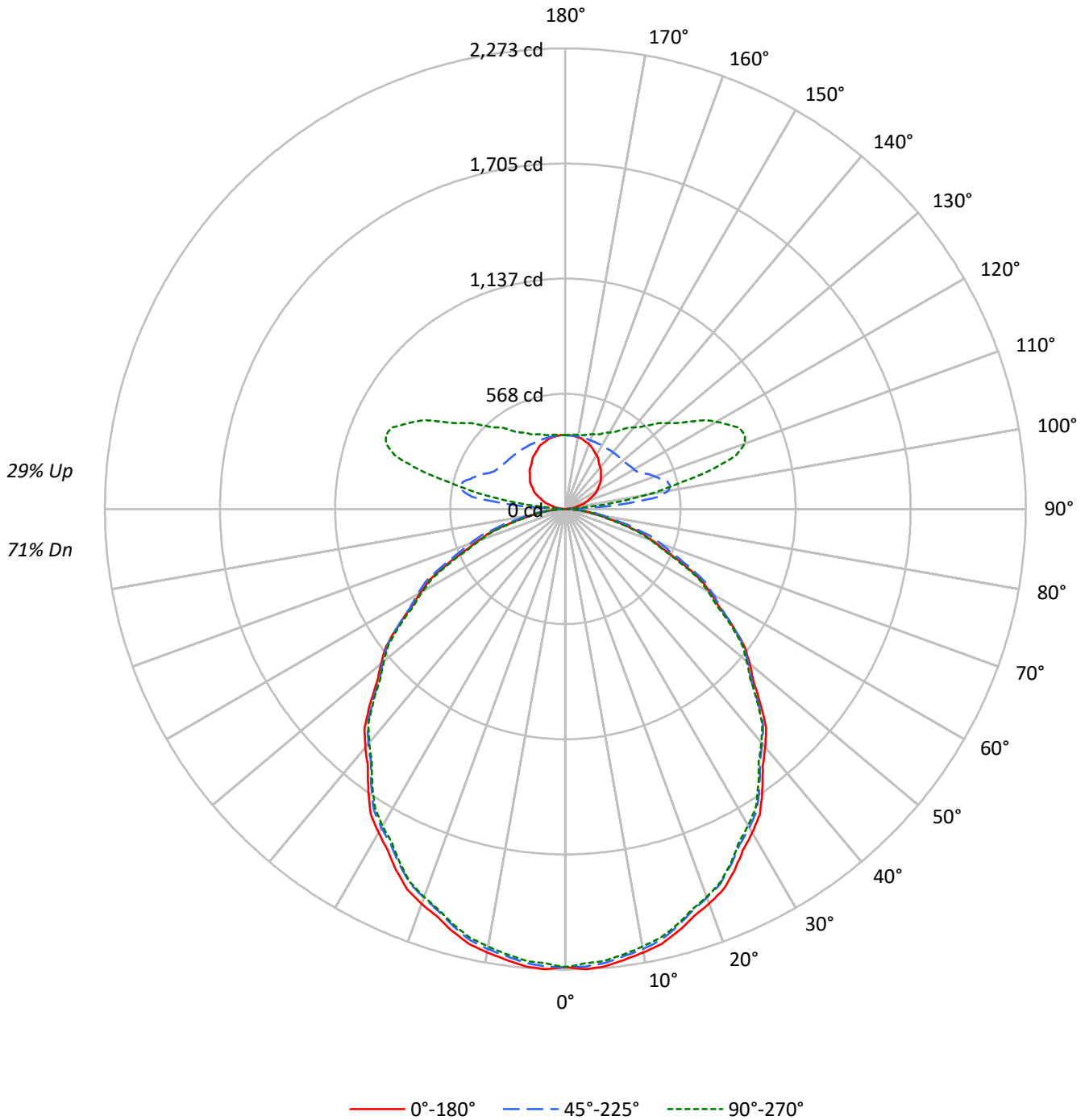
Lumens per Lamp: N/A
Luminaire Lumens: 8130.4 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 87.8
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



TEST NUMBER: P564703
CATALOG NUMBER: SQ4-PW1-050U-125D-930-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P564703

CATALOG NUMBER: SQ4-PW1-050U-125D-930-1D-UNV-STD-W-6

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	94	91	97	93	90	86	84	81	78	75	73	71	67	65	64	60
2	94	86	80	74	88	82	76	71	73	69	65	66	62	59	59	56	54	50
3	85	76	68	62	81	72	65	60	65	59	55	58	54	50	52	49	46	43
4	78	67	59	53	74	64	56	51	58	52	47	52	47	43	47	43	40	37
5	72	60	52	45	68	57	49	44	52	45	41	47	42	38	42	38	35	32
6	66	54	46	40	63	51	44	38	47	40	36	42	37	33	38	34	31	28
7	61	49	41	35	58	47	39	34	42	36	32	39	33	29	35	31	27	25
8	57	44	36	31	54	43	35	30	39	33	28	35	30	26	32	28	24	22
9	53	41	33	28	50	39	32	27	36	30	25	33	27	24	30	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13904	13904	13904
5°	13994	13884	13822
10°	13882	13770	13696
15°	13735	13583	13532
20°	13571	13363	13337
25°	13382	13138	13098
30°	13099	12901	12816
35°	12727	12547	12473
40°	12330	12138	12090
45°	11850	11694	11642
50°	11358	11264	11187
55°	10829	10829	10657
60°	10167	10364	9996
65°	9304	9769	9073
70°	8202	8990	7987
75°	7006	8047	6816
80°	5434	6773	5504
85°	3515	5201	4637



TEST NUMBER: P564703

CATALOG NUMBER: SQ4-PW1-050U-125D-930-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	2.6
10°-20°	601.0	7.4
20°-30°	891.4	11.0
30°-40°	1043.1	12.8
40°-50°	1038.4	12.8
50°-60°	896.7	11.0
60°-70°	645.5	7.9
70°-80°	338.5	4.2
80°-90°	85.3	1.0
90°-100°	174.8	2.1
100°-110°	474.9	5.8
110°-120°	488.2	6.0
120°-130°	390.4	4.8
130°-140°	306.7	3.8
140°-150°	235.2	2.9
150°-160°	169.1	2.1
160°-170°	103.4	1.3
170°-180°	34.8	0.4
0°-30°	1705.3	21.0
0°-40°	2748.4	33.8
0°-60°	4683.5	57.6
0°-90°	5752.8	70.8
90°-120°	1137.9	14.0
90°-150°	2070.2	25.5
90°-180°	2378.0	29.2
0°-180°	8130.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2260	2260	2260	2260	2260	
5°	2266	2241	2249	2242	2239	215
15°	2157	2130	2133	2129	2125	608
25°	1972	1939	1936	1924	1930	907
35°	1695	1672	1671	1655	1661	1060
45°	1362	1351	1344	1340	1338	1051
55°	1010	1008	1010	996	994	901
65°	639	659	671	645	623	634
75°	295	322	339	316	287	316
85°	50	65	74	70	66	66
90°	1	5	8	10	10	4
95°	26	96	304	132	89	27
105°	84	131	522	795	748	90
115°	150	182	418	832	947	148
125°	206	235	378	637	752	184
135°	248	276	368	519	585	192
145°	287	308	363	441	474	180
155°	324	336	361	396	408	150
165°	351	356	362	377	378	99
175°	364	365	363	368	366	35
180°	364	364	364	364	364	



TEST NUMBER: P564703

CATALOG NUMBER: SQ4-PW1-050U-125D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2260.5	2260.5	2260.5	2260.5	2260.5
2.5°	2273.3	2254.6	2260.5	2255.5	2244.6
5°	2266.5	2241.2	2248.6	2242.5	2238.6
7.5°	2243.4	2220.0	2225.5	2219.1	2216.7
10°	2222.7	2199.3	2204.8	2196.7	2192.8
12.5°	2198.8	2173.9	2179.3	2171.3	2168.9
15°	2157.0	2129.7	2133.1	2129.0	2125.1
17.5°	2108.4	2080.7	2081.3	2074.9	2074.1
20°	2073.3	2044.1	2041.5	2033.6	2037.5
22.5°	2035.1	2004.3	2001.6	1990.6	1996.1
25°	1971.8	1938.6	1935.9	1924.1	1929.9
27.5°	1898.5	1865.7	1865.8	1849.2	1855.4
30°	1844.3	1813.1	1816.4	1796.7	1804.5
32.5°	1786.9	1758.9	1760.6	1740.9	1748.7
35°	1694.9	1671.5	1671.0	1655.2	1661.1
37.5°	1600.9	1580.3	1577.0	1567.9	1569.4
40°	1535.6	1518.1	1511.7	1505.7	1505.7
42.5°	1467.1	1451.1	1444.8	1440.3	1438.8
45°	1362.3	1350.6	1344.4	1340.4	1338.4
47.5°	1258.7	1247.8	1242.4	1239.6	1237.6
50°	1187.0	1179.2	1177.1	1171.1	1169.1
52.5°	1115.3	1110.7	1108.6	1101.0	1099.0
55°	1009.8	1007.8	1009.8	995.8	993.8
57.5°	899.8	903.0	909.4	890.6	885.9
60°	826.5	834.3	842.5	820.4	812.6
62.5°	751.7	764.1	775.6	750.2	739.3
65°	639.3	658.8	671.2	644.8	623.4
67.5°	531.0	555.1	570.0	541.6	517.4
70°	456.1	483.4	499.9	471.4	444.1
72.5°	390.8	421.1	434.6	407.7	380.4
75°	294.8	322.0	338.6	316.0	286.8
77.5°	209.1	234.8	248.6	228.9	204.7
80°	153.4	180.6	191.2	174.8	155.4
82.5°	108.7	131.3	138.6	128.8	115.5
85°	49.8	65.4	73.7	69.6	65.7
87.5°	13.0	24.6	31.9	32.4	34.0
90°	1.2	4.6	8.2	10.5	10.5
92.5°	10.5	47.9	83.1	35.7	30.2
95°	25.8	95.6	304.4	132.5	89.0
97.5°	42.6	105.6	466.7	363.1	255.0
100°	53.9	112.2	516.4	523.4	422.7
102.5°	65.1	118.9	529.5	647.4	558.5
105°	84.3	131.2	522.2	795.1	748.2
107.5°	104.2	145.7	492.0	871.4	884.5
110°	118.3	156.0	469.5	886.5	942.6

TEST NUMBER: P564703

CATALOG NUMBER: SQ4-PW1-050U-125D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	130.4	166.4	447.0	874.0	958.5
115°	149.9	181.9	418.0	831.6	947.2
117.5°	168.1	198.8	399.5	771.5	901.8
120°	180.3	210.1	391.1	731.2	860.6
122.5°	190.6	220.4	385.5	690.9	815.6
125°	206.1	234.7	378.2	637.2	751.7
127.5°	219.9	248.3	374.2	596.6	694.8
130°	228.3	255.8	372.3	571.1	659.2
132.5°	236.8	264.2	370.5	549.3	627.4
135°	248.2	275.7	367.7	519.0	585.4
137.5°	260.6	285.6	366.3	492.3	548.2
140°	268.1	292.2	365.3	475.4	525.7
142.5°	275.6	297.8	364.4	462.1	504.2
145°	286.9	307.5	363.0	441.0	474.2
147.5°	299.5	317.1	361.8	424.5	450.6
150°	307.9	322.8	361.8	415.0	435.6
152.5°	314.5	327.6	360.9	406.4	423.4
155°	324.3	335.8	360.6	396.0	407.5
157.5°	333.9	342.9	360.6	388.9	397.6
160°	339.6	347.6	360.6	384.2	391.1
162.5°	345.2	351.4	361.6	380.4	385.5
165°	351.3	355.8	361.8	377.1	378.2
167.5°	357.6	359.9	363.0	373.1	374.0
170°	359.5	361.8	363.0	371.2	371.2
172.5°	361.3	362.7	363.0	369.3	369.3
175°	364.1	365.3	363.0	367.6	366.5
177.5°	365.1	365.1	362.3	366.0	364.1
180°	364.1	364.1	364.1	364.1	364.1

(END OF REPORT)