

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: P564800

Luminaire Tested: **SQ4-PW1-075U-125D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564800
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PW1-075U-125D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

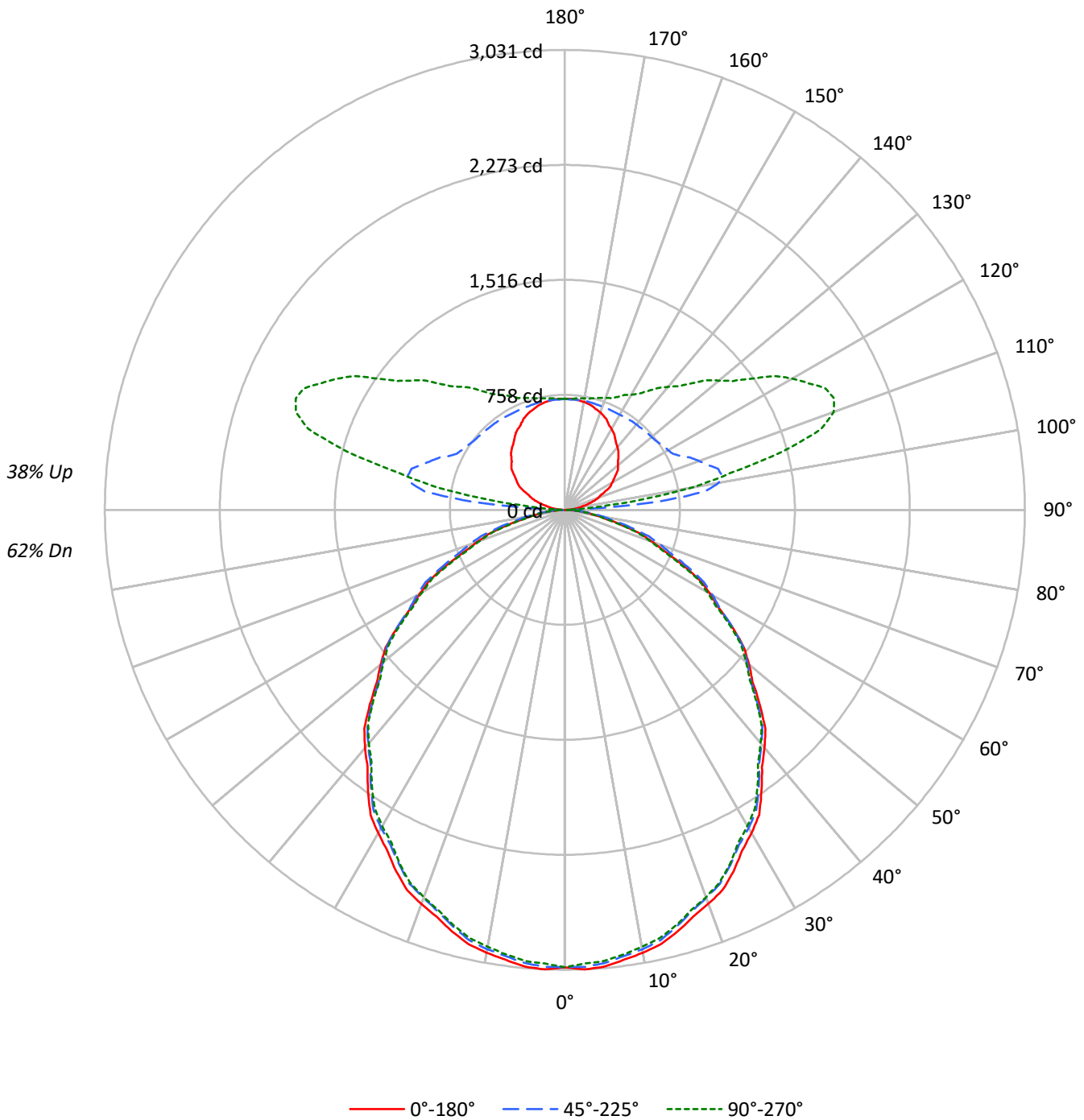
Lumens per Lamp: N/A
Luminaire Lumens: 12435.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 127.7
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: P564800
CATALOG NUMBER: SQ4-PW1-075U-125D-930-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P564800

CATALOG NUMBER: SQ4-PW1-075U-125D-930-1D-UNV-STD-W-8

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	84	78	73	86	79	74	69	69	65	62	61	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	51	71	62	55	49	55	49	44	48	43	40	42	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	44	38	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	39	34	56	45	38	32	40	34	30	35	31	27	31	27	24	22
8	56	43	35	30	52	41	34	29	37	31	26	32	28	24	29	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13904	13904	13904
5°	13994	13883	13822
10°	13882	13770	13696
15°	13735	13583	13532
20°	13571	13362	13336
25°	13382	13138	13098
30°	13098	12901	12816
35°	12727	12547	12472
40°	12329	12138	12090
45°	11850	11694	11642
50°	11359	11263	11187
55°	10829	10829	10657
60°	10168	10364	9997
65°	9304	9768	9073
70°	8202	8990	7987
75°	7005	8046	6816
80°	5433	6772	5502
85°	3515	5203	4637



TEST NUMBER: P564800

CATALOG NUMBER: SQ4-PW1-075U-125D-930-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.8	2.3
10°-20°	801.3	6.4
20°-30°	1188.6	9.6
30°-40°	1390.8	11.2
40°-50°	1384.6	11.1
50°-60°	1195.6	9.6
60°-70°	860.6	6.9
70°-80°	451.3	3.6
80°-90°	113.8	0.9
90°-100°	344.9	2.8
100°-110°	949.1	7.6
110°-120°	979.6	7.9
120°-130°	784.8	6.3
130°-140°	616.4	5.0
140°-150°	472.4	3.8
150°-160°	339.7	2.7
160°-170°	207.7	1.7
170°-180°	70.0	0.6
0°-30°	2273.7	18.3
0°-40°	3664.5	29.5
0°-60°	6244.7	50.2
0°-90°	7670.4	61.7
90°-120°	2273.6	18.3
90°-150°	4147.3	33.4
90°-180°	4765.0	38.3
0°-180°	12435.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3014	3014	3014	3014	3014	
5°	3022	2988	2998	2990	2985	286
15°	2876	2840	2844	2839	2834	811
25°	2629	2585	2581	2565	2573	1209
35°	2260	2229	2228	2207	2215	1413
45°	1816	1801	1792	1787	1784	1401
55°	1346	1344	1346	1328	1325	1201
65°	852	878	895	860	831	845
75°	393	429	451	421	382	421
85°	66	87	98	93	88	88
90°	2	6	11	14	14	6
95°	51	188	610	261	166	54
105°	170	261	1046	1593	1486	179
115°	300	366	839	1670	1895	296
125°	414	472	761	1287	1508	369
135°	500	554	739	1041	1178	385
145°	577	617	728	887	956	362
155°	654	675	724	797	820	300
165°	706	716	727	756	761	199
175°	731	733	728	738	736	69
180°	731	731	731	731	731	

TEST NUMBER: P564800

CATALOG NUMBER: SQ4-PW1-075U-125D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3014.1	3014.1	3014.1	3014.1	3014.1
2.5°	3031.1	3006.1	3014.1	3007.4	2992.8
5°	3022.0	2988.3	2998.1	2990.0	2984.9
7.5°	2991.2	2960.1	2967.3	2958.8	2955.6
10°	2963.6	2932.4	2939.7	2929.0	2923.8
12.5°	2931.7	2898.5	2905.7	2895.0	2891.9
15°	2876.0	2839.6	2844.1	2838.7	2833.5
17.5°	2811.2	2774.3	2775.1	2766.5	2765.5
20°	2764.4	2725.5	2721.9	2711.4	2716.6
22.5°	2713.5	2672.4	2668.8	2654.1	2661.4
25°	2629.0	2584.9	2581.2	2565.4	2573.2
27.5°	2531.3	2487.7	2487.7	2465.6	2473.9
30°	2459.0	2417.5	2421.9	2395.6	2405.9
32.5°	2382.6	2345.2	2347.5	2321.2	2331.6
35°	2259.9	2228.7	2228.0	2206.9	2214.7
37.5°	2134.5	2107.0	2102.7	2090.5	2092.6
40°	2047.4	2024.1	2015.6	2007.6	2007.6
42.5°	1956.1	1934.8	1926.3	1920.5	1918.4
45°	1816.4	1800.8	1792.5	1787.1	1784.5
47.5°	1678.3	1663.8	1656.5	1652.8	1650.2
50°	1582.7	1572.3	1569.4	1561.4	1558.8
52.5°	1487.1	1480.9	1478.1	1467.9	1465.3
55°	1346.4	1343.8	1346.4	1327.7	1325.1
57.5°	1199.8	1203.9	1212.5	1187.4	1181.2
60°	1102.1	1112.4	1123.3	1093.9	1083.5
62.5°	1002.2	1018.8	1034.1	1000.3	985.7
65°	852.4	878.4	894.9	859.8	831.2
67.5°	708.0	740.2	760.0	722.1	689.9
70°	608.1	644.5	666.5	628.5	592.2
72.5°	521.0	561.5	579.4	543.6	507.2
75°	393.0	429.4	451.4	421.3	382.4
77.5°	278.8	313.1	331.4	305.2	273.0
80°	204.5	240.8	254.9	233.1	207.1
82.5°	145.0	175.1	184.8	171.7	154.0
85°	66.4	87.2	98.3	92.8	87.6
87.5°	17.3	32.8	42.5	43.2	45.3
90°	1.6	6.1	10.9	14.0	14.0
92.5°	21.5	91.8	159.0	61.1	50.1
95°	51.4	188.3	610.0	260.8	166.5
97.5°	83.7	208.8	930.9	717.2	506.1
100°	107.4	221.5	1031.7	1041.4	849.6
102.5°	129.8	236.6	1057.9	1291.9	1116.1
105°	169.6	260.9	1045.7	1592.6	1486.1
107.5°	207.6	291.0	986.3	1739.8	1771.5
110°	235.0	311.1	941.5	1776.5	1886.0



TEST NUMBER: P564800

CATALOG NUMBER: SQ4-PW1-075U-125D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	259.9	333.5	896.6	1752.9	1919.6
115°	300.3	365.8	838.8	1670.2	1895.4
117.5°	338.9	399.2	802.0	1554.1	1808.8
120°	362.6	420.4	785.8	1467.2	1730.4
122.5°	383.7	441.6	774.6	1390.9	1640.8
125°	413.9	471.7	760.9	1287.3	1507.9
127.5°	442.6	497.6	751.9	1200.7	1394.3
130°	457.5	513.8	746.9	1149.3	1325.8
132.5°	474.9	531.2	743.2	1104.1	1263.6
135°	499.5	554.3	739.2	1041.0	1178.0
137.5°	522.5	573.4	735.7	990.1	1103.0
140°	540.0	587.1	734.5	956.2	1058.2
142.5°	554.9	598.4	732.0	926.0	1013.3
145°	577.3	616.9	728.3	887.0	955.5
147.5°	601.3	635.4	726.4	852.4	907.2
150°	616.2	646.7	725.2	833.5	876.1
152.5°	629.9	657.9	723.9	817.1	852.4
155°	653.6	674.9	723.6	797.3	820.1
157.5°	670.7	688.0	723.6	780.9	796.7
160°	683.1	696.8	723.6	772.1	784.3
162.5°	693.1	704.4	724.8	764.6	774.3
165°	706.5	715.6	726.7	756.4	760.9
167.5°	715.8	722.8	728.3	749.5	750.7
170°	722.0	726.6	728.3	746.9	746.9
172.5°	727.0	729.2	728.3	743.2	742.0
175°	731.4	732.9	728.3	737.6	736.0
177.5°	732.6	732.6	727.6	735.1	732.6
180°	731.4	731.4	731.4	731.4	731.4

(END OF REPORT)