

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: P565063

Luminaire Tested: **SQ4-PW1-125U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565063
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PW1-125U-100D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

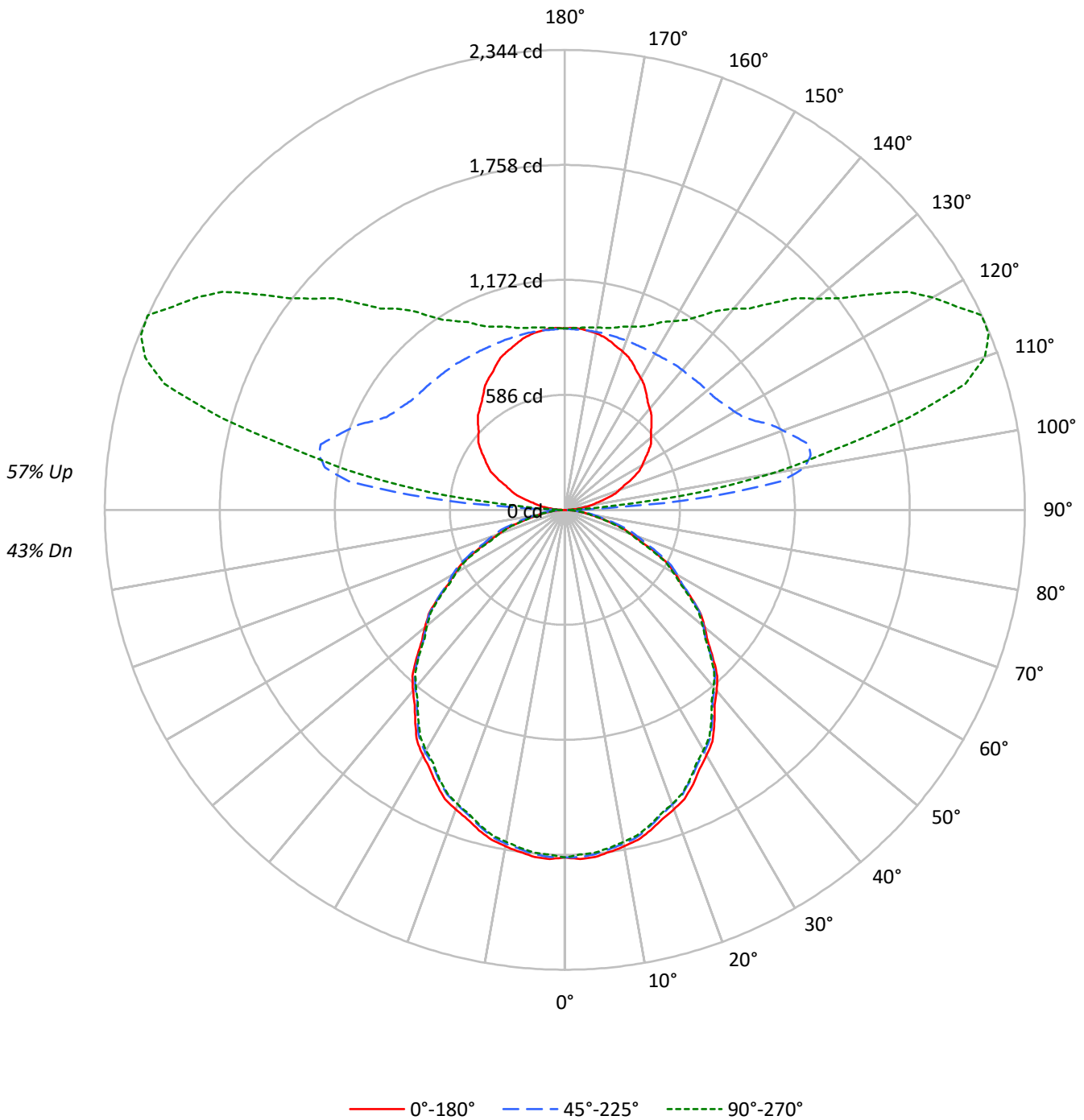
Lumens per Lamp: N/A
Luminaire Lumens: 10476.4 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 102.8
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



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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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	80	74	69	80	74	69	64	61	57	54	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	49	46	44	41	38	34	32	30	26
4	73	63	55	49	67	58	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	14
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	17	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10896	10896	10896
5°	10966	10879	10831
10°	10878	10791	10732
15°	10763	10644	10604
20°	10635	10471	10451
25°	10486	10295	10263
30°	10264	10109	10043
35°	9973	9832	9773
40°	9662	9512	9474
45°	9286	9164	9123
50°	8901	8826	8766
55°	8486	8486	8352
60°	7968	8122	7834
65°	7292	7655	7110
70°	6427	7044	6258
75°	5490	6305	5340
80°	4258	5306	4311
85°	2752	4072	3634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	1.6
10°-20°	470.9	4.5
20°-30°	698.6	6.7
30°-40°	817.4	7.8
40°-50°	813.7	7.8
50°-60°	702.7	6.7
60°-70°	505.8	4.8
70°-80°	265.2	2.5
80°-90°	67.9	0.6
90°-100°	432.4	4.1
100°-110°	1164.8	11.1
110°-120°	1222.5	11.7
120°-130°	992.0	9.5
130°-140°	778.0	7.4
140°-150°	597.3	5.7
150°-160°	429.5	4.1
160°-170°	262.4	2.5
170°-180°	88.5	0.8
0°-30°	1336.3	12.8
0°-40°	2153.7	20.6
0°-60°	3670.1	35.0
0°-90°	4509.1	43.0
90°-120°	2819.7	26.9
90°-150°	5187.0	49.5
90°-180°	5967.0	57.0
0°-180°	10476.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1771	1771	1771	1771	1771	
5°	1776	1756	1762	1757	1754	168
15°	1690	1669	1672	1668	1665	476
25°	1545	1519	1517	1508	1512	710
35°	1328	1310	1309	1297	1302	830
45°	1068	1058	1054	1050	1049	824
55°	791	790	791	780	779	706
65°	501	516	526	505	488	496
75°	231	252	265	248	225	248
85°	39	51	58	55	52	52
90°	2	7	14	15	15	6
95°	66	235	709	362	251	69
105°	216	335	1288	1927	1809	227
115°	380	466	1073	2073	2344	374
125°	519	596	963	1628	1916	464
135°	625	698	936	1313	1487	483
145°	723	779	924	1123	1206	453
155°	821	851	916	1008	1040	378
165°	890	901	920	956	961	251
175°	926	924	921	934	931	88
180°	924	924	924	924	924	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1771.4	1771.4	1771.4	1771.4	1771.4
2.5°	1781.4	1766.7	1771.4	1767.5	1758.9
5°	1776.1	1756.2	1762.0	1757.3	1754.2
7.5°	1758.0	1739.7	1743.9	1738.9	1737.1
10°	1741.7	1723.4	1727.7	1721.4	1718.3
12.5°	1723.0	1703.5	1707.7	1701.4	1699.6
15°	1690.2	1668.9	1671.5	1668.3	1665.3
17.5°	1652.2	1630.5	1630.9	1625.9	1625.3
20°	1624.7	1601.8	1599.7	1593.6	1596.6
22.5°	1594.7	1570.6	1568.5	1559.9	1564.1
25°	1545.1	1519.2	1517.0	1507.7	1512.3
27.5°	1487.7	1462.0	1462.1	1449.1	1454.0
30°	1445.2	1420.8	1423.4	1407.9	1414.0
32.5°	1400.3	1378.3	1379.7	1364.2	1370.3
35°	1328.2	1309.8	1309.4	1297.1	1301.6
37.5°	1254.5	1238.3	1235.8	1228.6	1229.8
40°	1203.3	1189.6	1184.6	1179.9	1179.9
42.5°	1149.6	1137.1	1132.1	1128.7	1127.5
45°	1067.5	1058.4	1053.5	1050.3	1048.8
47.5°	986.4	977.8	973.6	971.3	969.8
50°	930.2	924.1	922.4	917.7	916.1
52.5°	874.0	870.3	868.7	862.7	861.2
55°	791.3	789.8	791.3	780.3	778.8
57.5°	705.1	707.6	712.6	697.9	694.2
60°	647.7	653.8	660.2	642.9	636.8
62.5°	589.0	598.8	607.7	587.9	579.3
65°	501.0	516.2	526.0	505.3	488.5
67.5°	416.1	435.0	446.7	424.4	405.5
70°	357.4	378.8	391.7	369.4	348.0
72.5°	306.2	330.0	340.5	319.5	298.1
75°	231.0	252.3	265.3	247.6	224.7
77.5°	163.9	184.0	194.8	179.4	160.4
80°	120.2	141.5	149.8	137.0	121.7
82.5°	85.2	102.9	108.6	100.9	90.5
85°	39.0	51.2	57.7	54.6	51.5
87.5°	10.5	19.9	26.5	26.8	28.0
90°	2.4	7.0	14.1	15.3	15.3
92.5°	28.7	101.5	200.7	96.6	67.1
95°	65.9	235.2	708.9	362.5	250.8
97.5°	105.3	269.2	1111.8	928.8	700.4
100°	135.4	282.8	1240.0	1297.3	1076.3
102.5°	164.6	301.9	1282.3	1573.3	1391.9
105°	215.5	335.2	1288.2	1927.3	1808.7
107.5°	263.5	370.4	1233.4	2109.2	2139.8
110°	295.6	396.9	1183.4	2165.7	2277.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	329.5	423.4	1135.4	2153.2	2336.7
115°	380.3	465.5	1072.7	2072.8	2344.5
117.5°	426.7	506.6	1024.2	1944.4	2247.0
120°	456.9	534.0	999.7	1852.3	2163.1
122.5°	483.3	559.5	981.8	1758.0	2068.0
125°	519.3	596.4	963.2	1628.0	1915.9
127.5°	553.9	629.9	951.5	1513.3	1770.3
130°	574.6	650.6	946.7	1447.6	1673.3
132.5°	595.4	670.4	942.0	1389.7	1597.0
135°	625.3	697.8	936.1	1313.4	1487.2
137.5°	653.8	723.3	933.1	1248.6	1391.4
140°	673.6	740.3	930.3	1208.7	1337.7
142.5°	694.3	756.5	928.4	1171.5	1280.2
145°	723.0	779.4	924.4	1122.9	1205.8
147.5°	754.1	803.1	920.4	1082.0	1147.2
150°	774.8	817.4	918.5	1056.3	1110.4
152.5°	793.7	830.7	917.5	1035.4	1079.3
155°	820.7	850.7	916.1	1007.5	1039.8
157.5°	844.5	867.8	916.4	988.0	1009.6
160°	859.6	879.2	917.3	976.5	992.7
162.5°	872.8	888.7	918.2	967.0	978.5
165°	890.2	900.6	919.7	956.3	960.9
167.5°	904.4	910.3	920.8	948.0	949.8
170°	913.8	916.1	920.8	943.2	943.2
172.5°	919.4	919.9	921.8	938.5	938.5
175°	925.5	924.4	920.8	933.7	931.4
177.5°	928.1	926.3	921.5	929.0	927.2
180°	924.4	924.4	924.4	924.4	924.4

(END OF REPORT)