

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: P565159

Luminaire Tested: **SQ4-PW1-150U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565159
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PW1-150U-100D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

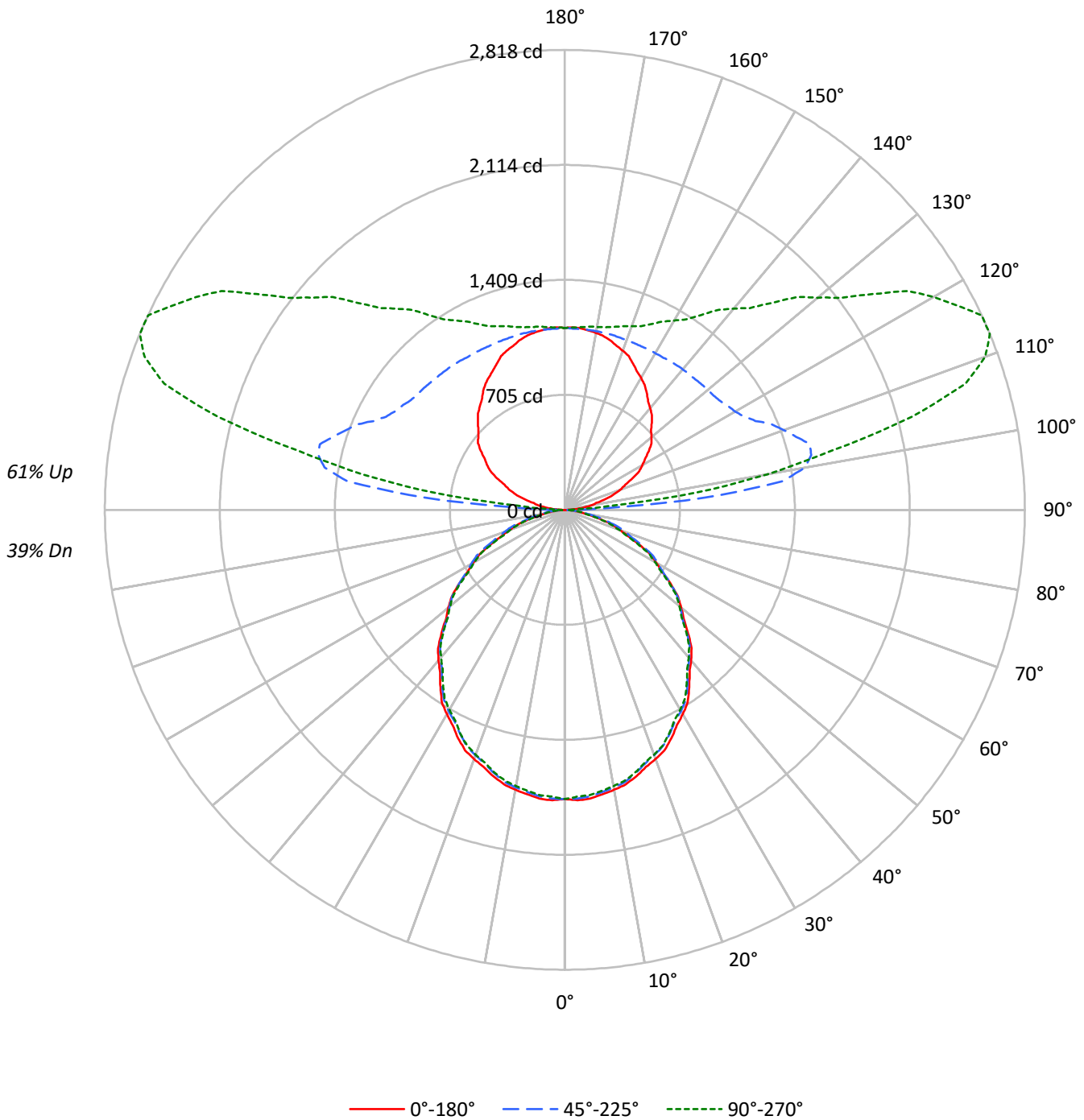
Lumens per Lamp: N/A
Luminaire Lumens: 11699.6 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 112.7
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



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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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	86	83	80	77	68	65	63	53	52	51	40	39	39	33
2	87	80	74	69	79	73	67	63	59	56	52	47	44	42	36	34	33	27
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	66	57	50	45	46	41	38	37	33	31	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	27	25	23	21	17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	14
8	52	40	33	27	47	37	30	26	31	26	22	25	21	18	19	17	15	12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	17	14	12	10

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	1.4
10°-20°	470.9	4.0
20°-30°	698.6	6.0
30°-40°	817.4	7.0
40°-50°	813.7	7.0
50°-60°	702.7	6.0
60°-70°	505.8	4.3
70°-80°	265.2	2.3
80°-90°	68.1	0.6
90°-100°	518.3	4.4
100°-110°	1401.4	12.0
110°-120°	1473.3	12.6
120°-130°	1196.7	10.2
130°-140°	938.7	8.0
140°-150°	720.5	6.2
150°-160°	518.2	4.4
160°-170°	316.5	2.7
170°-180°	106.7	0.9
0°-30°	1336.3	11.4
0°-40°	2153.7	18.4
0°-60°	3670.1	31.4
0°-90°	4509.2	38.5
90°-120°	3393.0	29.0
90°-150°	6249.0	53.4
90°-180°	7190.0	61.5
0°-180°	11699.6	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	16	17	16	7
95°	80	282	862	446	265	84
105°	260	402	1555	2293	2199	274
115°	459	561	1289	2496	2818	453
125°	628	719	1162	1961	2304	560
135°	753	842	1131	1583	1792	582
145°	875	941	1115	1355	1459	547
155°	988	1027	1106	1216	1256	456
165°	1076	1086	1110	1154	1160	303
175°	1116	1115	1112	1126	1124	106
180°	1115	1115	1115	1115	1115	



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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	20.0	26.8	27.1	28.1
90°	2.4	7.1	15.6	16.8	15.6
92.5°	34.1	124.2	245.1	106.4	77.1
95°	80.4	282.3	861.9	446.1	265.3
97.5°	129.2	323.8	1343.6	1111.9	816.6
100°	165.7	340.6	1493.4	1557.4	1259.3
102.5°	199.3	363.8	1546.2	1895.3	1672.3
105°	260.5	402.5	1554.6	2293.2	2199.3
107.5°	317.2	446.8	1486.7	2541.4	2572.6
110°	361.3	478.7	1426.2	2608.0	2740.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	400.7	510.6	1370.5	2594.7	2817.5
115°	458.6	560.7	1289.3	2495.9	2817.5
117.5°	515.2	611.0	1235.8	2344.9	2709.5
120°	549.8	643.7	1204.1	2236.5	2608.6
122.5°	582.5	674.5	1184.9	2120.4	2495.3
125°	627.8	719.4	1162.1	1961.0	2303.7
127.5°	669.6	759.5	1148.6	1830.9	2132.3
130°	692.7	785.4	1142.9	1750.5	2022.8
132.5°	716.7	808.5	1137.1	1678.0	1928.7
135°	752.7	841.9	1130.8	1583.4	1792.3
137.5°	789.0	873.2	1125.6	1506.6	1676.8
140°	813.9	892.6	1123.6	1457.2	1608.6
142.5°	837.9	911.9	1119.8	1412.6	1545.3
145°	875.1	940.9	1115.2	1355.3	1458.6
147.5°	909.0	967.2	1110.0	1303.4	1382.7
150°	934.0	985.6	1108.0	1275.1	1338.5
152.5°	957.0	1002.1	1107.1	1249.0	1301.1
155°	988.0	1026.7	1105.6	1215.8	1255.7
157.5°	1020.2	1047.2	1105.9	1192.7	1219.0
160°	1038.4	1060.7	1106.8	1178.1	1196.9
162.5°	1052.8	1071.4	1107.8	1166.5	1180.5
165°	1075.6	1086.2	1110.4	1153.8	1159.7
167.5°	1091.2	1098.5	1110.7	1142.9	1145.7
170°	1100.8	1104.4	1111.6	1138.1	1138.1
172.5°	1108.5	1109.2	1111.6	1132.3	1131.3
175°	1116.4	1115.3	1111.6	1126.0	1123.6
177.5°	1119.1	1116.3	1111.4	1120.9	1118.1
180°	1115.2	1115.2	1115.2	1115.2	1115.2

(END OF REPORT)