

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: P564947

Luminaire Tested: **SQ4-PW1-100U-075D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564947
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PW1-100U-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

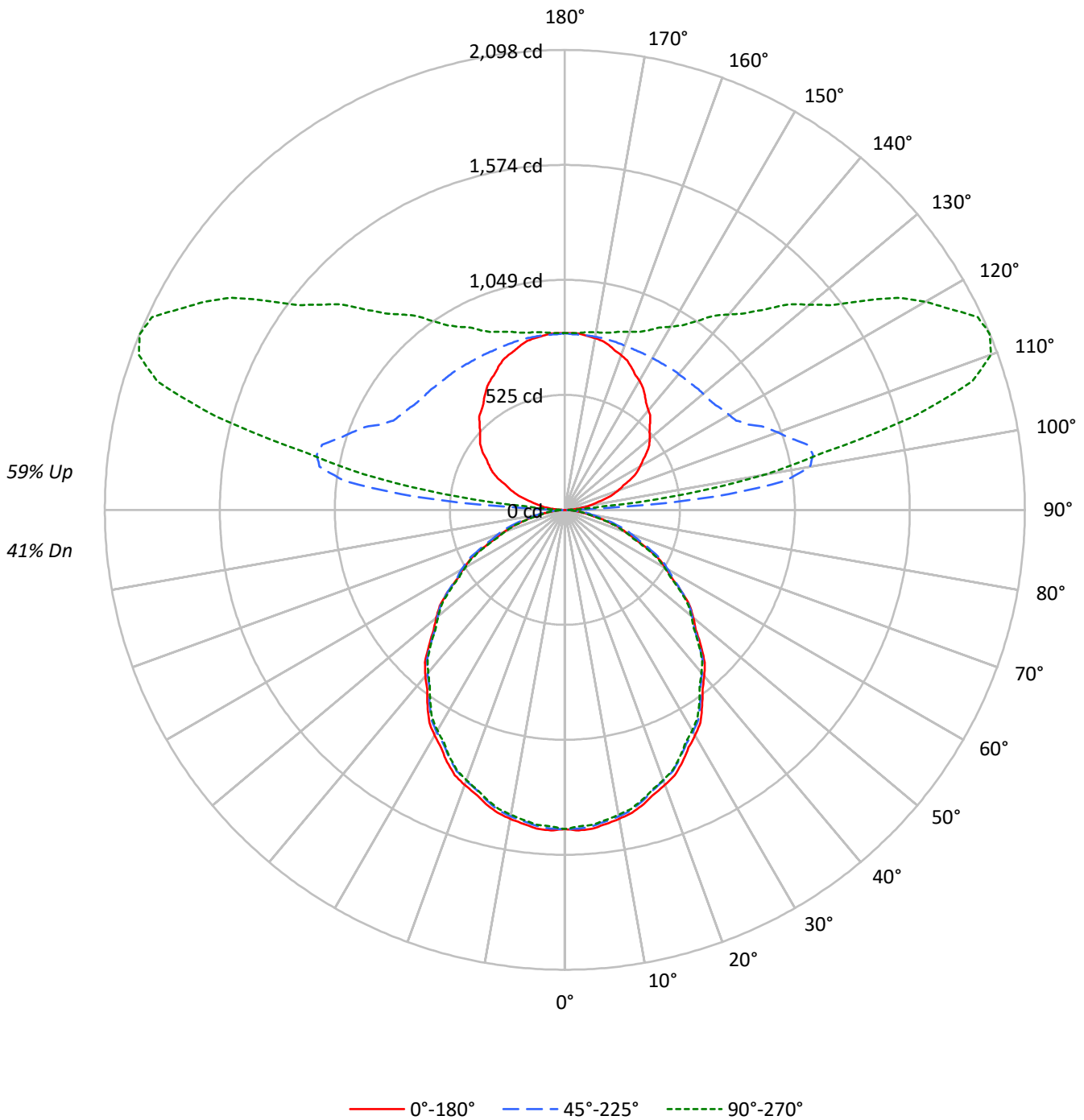
Lumens per Lamp: N/A
Luminaire Lumens: 8940.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 78
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	63	63	63	48	48	48	41
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	43	42	41	35
2	87	80	74	69	79	73	68	64	60	57	54	49	46	44	38	36	35	30
3	80	70	63	58	72	65	58	53	53	49	45	43	40	37	33	31	29	25
4	73	62	55	49	66	57	50	45	47	42	38	38	35	32	30	27	25	22
5	67	55	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	19	16
7	57	45	37	32	52	41	34	29	35	29	25	28	24	21	22	19	17	15
8	53	41	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8954	8954	8954
5°	9012	8940	8901
10°	8939	8868	8820
15°	8845	8747	8714
20°	8740	8605	8588
25°	8617	8461	8434
30°	8435	8308	8253
35°	8196	8080	8032
40°	7940	7817	7785
45°	7631	7530	7497
50°	7315	7253	7204
55°	6974	6974	6863
60°	6548	6674	6437
65°	5992	6290	5842
70°	5282	5789	5143
75°	4511	5181	4389
80°	3500	4360	3542
85°	2265	3352	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	1.5
10°-20°	387.0	4.3
20°-30°	574.1	6.4
30°-40°	671.7	7.5
40°-50°	668.7	7.5
50°-60°	577.5	6.5
60°-70°	415.7	4.6
70°-80°	218.0	2.4
80°-90°	55.7	0.6
90°-100°	377.3	4.2
100°-110°	1041.6	11.7
110°-120°	1074.2	12.0
120°-130°	863.2	9.7
130°-140°	678.4	7.6
140°-150°	520.3	5.8
150°-160°	373.9	4.2
160°-170°	228.7	2.6
170°-180°	77.1	0.9
0°-30°	1098.1	12.3
0°-40°	1769.9	19.8
0°-60°	3016.0	33.7
0°-90°	3705.4	41.4
90°-120°	2493.0	27.9
90°-150°	4554.9	50.9
90°-180°	5235.0	58.6
0°-180°	8940.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1460	1443	1448	1444	1442	138
15°	1389	1372	1374	1371	1368	392
25°	1270	1248	1247	1239	1243	584
35°	1092	1076	1076	1066	1070	682
45°	877	870	866	863	862	677
55°	650	649	650	641	640	580
65°	412	424	432	415	401	408
75°	190	207	218	204	185	203
85°	32	42	48	45	42	42
90°	3	5	10	12	13	5
95°	55	204	684	281	183	59
105°	186	286	1146	1750	1647	197
115°	333	402	923	1827	2078	327
125°	456	519	837	1416	1662	406
135°	549	608	813	1147	1293	425
145°	637	681	803	976	1051	399
155°	718	742	797	876	904	331
165°	777	787	800	832	838	219
175°	806	807	802	813	811	77
180°	806	806	806	806	806	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1455.7	1455.7	1455.7	1455.7	1455.7
2.5°	1463.9	1451.9	1455.7	1452.5	1445.5
5°	1459.6	1443.3	1448.0	1444.1	1441.6
7.5°	1444.7	1429.6	1433.1	1429.0	1427.5
10°	1431.3	1416.3	1419.8	1414.6	1412.1
12.5°	1416.0	1399.9	1403.4	1398.2	1396.7
15°	1389.0	1371.5	1373.6	1371.0	1368.5
17.5°	1357.7	1339.9	1340.3	1336.2	1335.7
20°	1335.2	1316.3	1314.6	1309.6	1312.1
22.5°	1310.5	1290.7	1289.0	1281.9	1285.4
25°	1269.7	1248.4	1246.7	1239.0	1242.8
27.5°	1222.5	1201.5	1201.5	1190.8	1194.8
30°	1187.7	1167.6	1169.7	1157.0	1162.0
32.5°	1150.7	1132.7	1133.8	1121.1	1126.1
35°	1091.5	1076.4	1076.1	1065.9	1069.7
37.5°	1030.9	1017.6	1015.5	1009.7	1010.7
40°	988.9	977.6	973.5	969.6	969.6
42.5°	944.7	934.5	930.4	927.5	926.5
45°	877.3	869.8	865.7	863.1	861.9
47.5°	810.6	803.6	800.1	798.2	797.0
50°	764.4	759.4	758.0	754.1	752.9
52.5°	718.2	715.2	713.9	709.0	707.7
55°	650.3	649.0	650.3	641.3	640.0
57.5°	579.5	581.5	585.6	573.5	570.5
60°	532.3	537.3	542.5	528.3	523.3
62.5°	484.0	492.1	499.4	483.1	476.1
65°	411.7	424.2	432.2	415.2	401.4
67.5°	341.9	357.5	367.1	348.8	333.2
70°	293.7	311.3	321.9	303.6	286.0
72.5°	251.6	271.2	279.9	262.5	245.0
75°	189.8	207.4	218.0	203.5	184.7
77.5°	134.7	151.2	160.1	147.4	131.8
80°	98.8	116.3	123.1	112.6	100.0
82.5°	70.0	84.6	89.3	82.9	74.4
85°	32.1	42.1	47.5	44.8	42.3
87.5°	8.7	16.3	21.6	21.8	23.1
90°	2.6	5.1	10.3	11.6	12.9
92.5°	23.2	96.3	172.2	62.8	49.0
95°	55.4	204.2	684.5	281.4	183.0
97.5°	91.8	228.7	1013.9	780.6	565.4
100°	118.6	243.4	1135.6	1143.7	929.4
102.5°	144.4	260.1	1159.3	1413.1	1209.9
105°	185.6	286.4	1145.9	1749.5	1647.4
107.5°	229.4	319.2	1082.0	1911.7	1949.0
110°	260.4	341.0	1032.5	1946.6	2067.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.2	365.9	986.1	1919.0	2097.5
115°	332.6	401.9	922.9	1827.1	2077.9
117.5°	371.2	440.3	881.4	1697.7	1983.0
120°	397.0	465.1	864.9	1610.1	1897.4
122.5°	421.8	486.8	851.5	1528.3	1800.5
125°	456.3	519.3	836.6	1415.8	1661.6
127.5°	485.7	548.7	827.8	1320.7	1532.6
130°	505.3	568.3	823.7	1262.5	1455.3
132.5°	523.9	583.9	819.6	1213.6	1388.3
135°	549.1	608.4	813.4	1146.7	1292.9
137.5°	577.5	631.4	810.3	1090.5	1215.3
140°	593.0	645.9	808.2	1053.0	1162.7
142.5°	610.5	659.4	806.2	1019.7	1116.3
145°	636.8	680.9	803.1	976.2	1050.6
147.5°	662.0	700.6	800.2	939.5	997.2
150°	680.6	712.1	799.2	917.6	964.2
152.5°	695.0	724.5	798.2	898.8	937.4
155°	718.0	741.9	796.6	875.9	903.6
157.5°	739.1	757.5	796.9	859.2	878.1
160°	751.5	767.9	797.9	849.8	863.6
162.5°	761.8	776.2	798.9	841.5	852.3
165°	777.3	787.4	800.5	831.6	837.9
167.5°	789.1	795.2	801.8	825.5	827.6
170°	795.3	800.4	801.8	822.4	822.4
172.5°	800.5	803.5	801.8	818.2	817.2
175°	805.6	806.9	801.8	813.3	810.8
177.5°	807.7	806.7	801.5	808.7	806.7
180°	805.6	805.6	805.6	805.6	805.6

(END OF REPORT)