

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: P563603

Luminaire Tested: **SQ4-PP3-100U-075D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563603
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

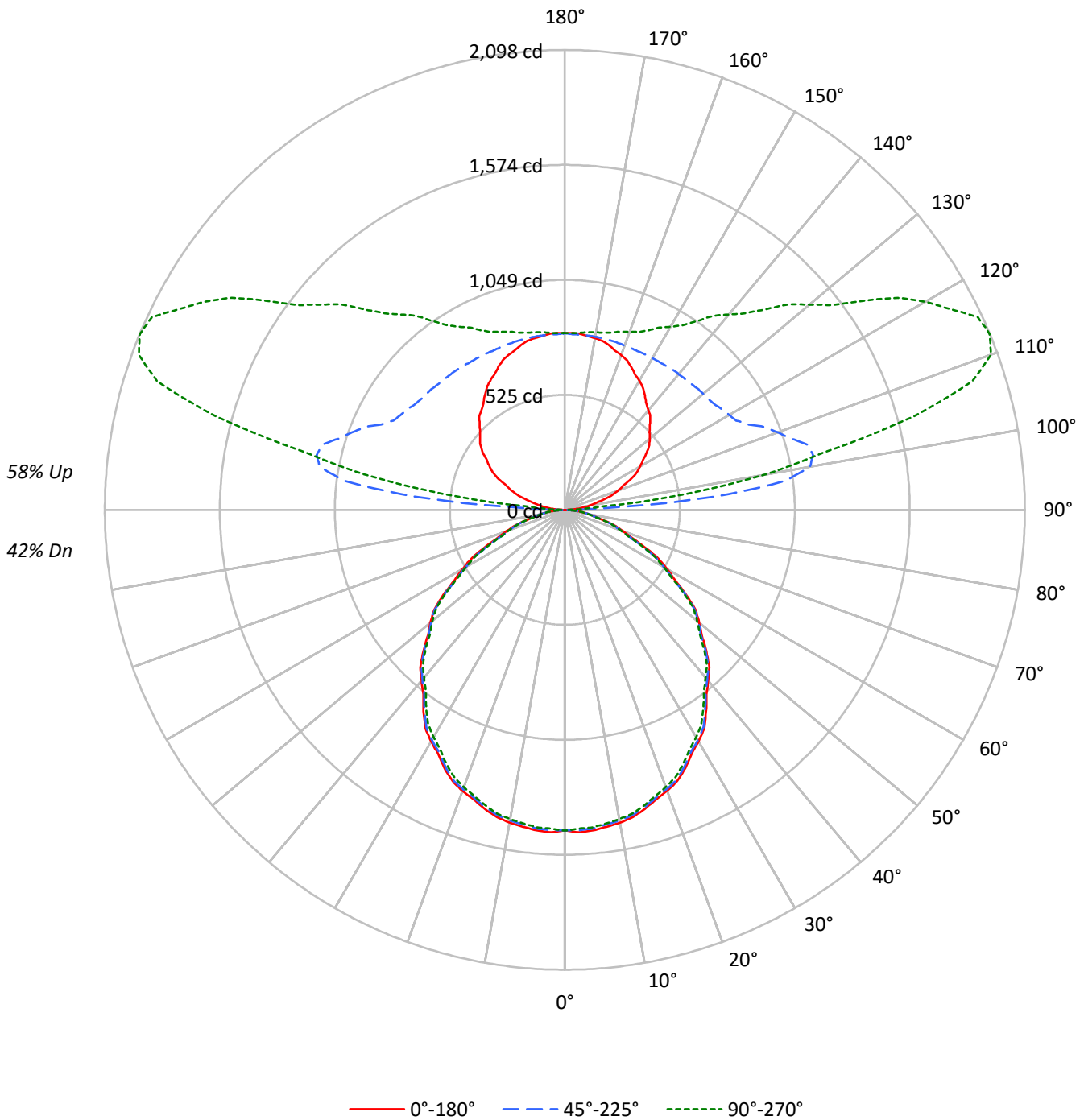
Lumens per Lamp: N/A
Luminaire Lumens: 8980.9 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	80	74	69	80	74	68	64	61	57	54	49	46	44	38	36	35	30
3	80	71	64	58	73	65	59	54	54	49	45	43	40	38	34	32	30	26
4	73	63	55	49	67	57	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	23	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	29	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	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	32	25	21	27	22	18	22	18	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8999	8999	8999
5°	9065	9010	8978
10°	9050	8986	8946
15°	8990	8941	8892
20°	8930	8880	8813
25°	8824	8763	8676
30°	8661	8615	8506
35°	8435	8377	8271
40°	8164	8113	8020
45°	7942	7886	7808
50°	7656	7607	7534
55°	7260	7164	7109
60°	6610	6420	6388
65°	5823	5580	5561
70°	5026	4820	4820
75°	4328	4266	4206
80°	3815	3861	3769
85°	2985	3260	3260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	1.5
10°-20°	395.0	4.4
20°-30°	591.7	6.6
30°-40°	694.0	7.7
40°-50°	696.2	7.8
50°-60°	593.9	6.6
60°-70°	387.3	4.3
70°-80°	194.3	2.2
80°-90°	55.4	0.6
90°-100°	377.3	4.2
100°-110°	1041.6	11.6
110°-120°	1074.2	12.0
120°-130°	863.2	9.6
130°-140°	678.4	7.6
140°-150°	520.3	5.8
150°-160°	373.9	4.2
160°-170°	228.7	2.5
170°-180°	77.1	0.9
0°-30°	1125.1	12.5
0°-40°	1819.1	20.3
0°-60°	3109.2	34.6
0°-90°	3746.3	41.7
90°-120°	2493.0	27.8
90°-150°	4554.9	50.7
90°-180°	5235.0	58.3
0°-180°	8980.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1468	1454	1459	1454	1454	139
15°	1412	1398	1404	1399	1396	398
25°	1300	1285	1291	1280	1278	598
35°	1123	1112	1116	1103	1102	702
45°	913	907	907	898	898	703
55°	677	674	668	664	663	602
65°	400	392	383	381	382	399
75°	182	182	180	178	177	198
85°	42	46	46	46	46	50
90°	3	5	10	12	13	6
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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CATALOG NUMBER: SQ4-PP3-100U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1463.1	1463.1	1463.1	1463.1	1463.1
2.5°	1472.3	1460.3	1463.1	1460.9	1454.9
5°	1468.2	1454.4	1459.2	1454.1	1454.1
7.5°	1458.2	1443.1	1447.9	1442.8	1442.5
10°	1449.0	1433.9	1438.7	1433.5	1432.3
12.5°	1435.6	1420.6	1426.4	1420.2	1420.0
15°	1411.8	1398.0	1404.1	1398.9	1396.4
17.5°	1384.8	1369.8	1377.2	1369.9	1368.9
20°	1364.3	1349.3	1356.6	1346.4	1346.4
22.5°	1339.7	1324.7	1333.0	1319.7	1319.7
25°	1300.2	1285.2	1291.2	1279.7	1278.4
27.5°	1253.3	1238.5	1244.8	1231.7	1231.5
30°	1219.4	1205.6	1213.0	1198.9	1197.6
32.5°	1182.5	1169.7	1175.1	1160.9	1159.7
35°	1123.3	1112.0	1115.6	1102.7	1101.5
37.5°	1060.9	1049.4	1053.5	1042.5	1042.0
40°	1016.8	1009.3	1010.4	1001.4	998.9
42.5°	975.8	967.3	968.4	959.4	958.9
45°	913.0	906.7	906.6	897.6	897.6
47.5°	846.3	841.5	840.1	832.7	832.4
50°	800.1	796.4	795.0	788.6	787.3
52.5°	751.9	750.2	745.8	740.4	740.1
55°	677.0	674.5	668.1	664.2	662.9
57.5°	595.7	590.7	583.4	577.8	578.8
60°	537.3	532.3	521.9	519.3	519.3
62.5°	480.8	474.8	464.4	460.9	462.9
65°	400.1	392.5	383.4	380.9	382.1
67.5°	326.7	320.0	310.1	310.0	309.0
70°	279.5	275.8	268.0	268.0	268.0
72.5°	237.5	235.7	230.0	230.0	229.0
75°	182.1	182.1	179.5	178.2	177.0
77.5°	136.4	136.9	135.7	134.3	132.1
80°	107.7	110.2	109.0	107.7	106.4
82.5°	81.0	83.5	83.3	81.0	80.8
85°	42.3	46.1	46.2	46.2	46.2
87.5°	11.8	16.3	18.5	18.8	20.0
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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CATALOG NUMBER: SQ4-PP3-100U-075D-935-1D-UNV-STD-W-6

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)