

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: P561907

Luminaire Tested: **SQ4-PR1-075U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561907
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-100D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

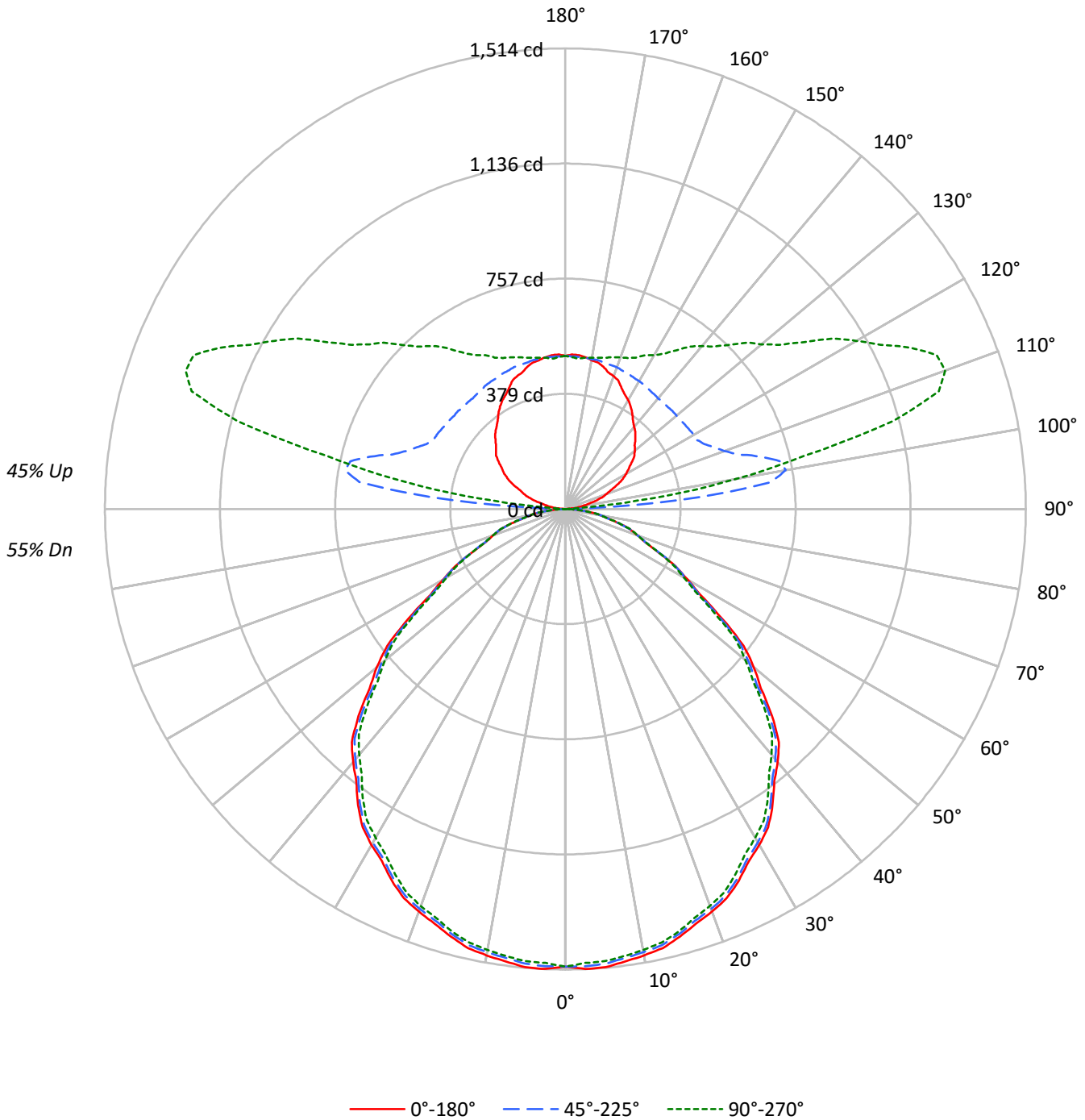
Lumens per Lamp: N/A
Luminaire Lumens: 6886.8 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 65.9
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	59	57	54	52	48	46	44	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	49	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	32	29	31	28	25	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13880	13880	13880
5°	14004	13897	13825
10°	13960	13864	13790
15°	13899	13813	13738
20°	13829	13740	13639
25°	13732	13639	13481
30°	13583	13487	13293
35°	13383	13266	13076
40°	13077	12938	12703
45°	12545	12325	12072
50°	11606	11326	11104
55°	10129	9901	9691
60°	8536	8464	8296
65°	7383	7412	7355
70°	6782	6817	6817
75°	6513	6513	6559
80°	6126	6195	6126
85°	4933	5483	5483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	2.1
10°-20°	407.0	5.9
20°-30°	613.9	8.9
30°-40°	731.5	10.6
40°-50°	721.2	10.5
50°-60°	551.2	8.0
60°-70°	341.1	5.0
70°-80°	193.7	2.8
80°-90°	58.9	0.9
90°-100°	229.3	3.3
100°-110°	652.5	9.5
110°-120°	625.2	9.1
120°-130°	494.8	7.2
130°-140°	397.1	5.8
140°-150°	310.9	4.5
150°-160°	227.5	3.3
160°-170°	140.9	2.0
170°-180°	47.8	0.7
0°-30°	1163.2	16.9
0°-40°	1894.7	27.5
0°-60°	3167.0	46.0
0°-90°	3760.8	54.6
90°-120°	1507.0	21.9
90°-150°	2709.8	39.3
90°-180°	3126.0	45.4
0°-180°	6886.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1504	1504	1504	1504	1504	
5°	1512	1496	1500	1495	1493	143
15°	1455	1440	1446	1441	1438	411
25°	1349	1332	1340	1326	1324	621
35°	1188	1174	1178	1162	1161	742
45°	962	949	945	928	925	737
55°	630	620	616	605	602	564
65°	338	336	340	337	337	343
75°	183	183	183	184	184	193
85°	47	49	52	52	52	54
90°	0	0	0	0	0	3
95°	25	99	444	154	95	28
105°	101	154	665	1174	1116	107
115°	188	228	504	1068	1254	186
125°	266	295	481	799	955	238
135°	325	352	476	675	762	251
145°	384	403	479	584	636	240
155°	438	448	491	528	549	203
165°	484	486	496	507	515	136
175°	507	504	502	499	496	48
180°	503	503	503	503	503	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1504.4	1504.4	1504.4	1504.4	1504.4
2.5°	1513.7	1500.5	1504.4	1501.1	1494.0
5°	1512.1	1495.7	1500.5	1495.2	1492.7
7.5°	1500.5	1484.3	1489.1	1483.9	1482.3
10°	1490.1	1474.9	1479.8	1474.5	1472.0
12.5°	1478.7	1462.5	1468.4	1462.1	1459.5
15°	1455.1	1439.9	1446.1	1440.8	1438.3
17.5°	1429.2	1413.0	1419.1	1413.1	1409.8
20°	1408.5	1393.3	1399.4	1390.3	1389.1
22.5°	1385.7	1370.5	1376.6	1364.4	1364.2
25°	1348.9	1332.4	1339.8	1325.5	1324.3
27.5°	1305.1	1289.9	1296.0	1281.5	1279.9
30°	1275.0	1259.8	1266.0	1250.3	1247.8
32.5°	1240.8	1226.6	1231.7	1216.2	1214.6
35°	1188.2	1174.3	1177.8	1162.3	1161.0
37.5°	1128.3	1115.7	1117.7	1100.6	1099.3
40°	1085.8	1073.2	1074.2	1056.0	1054.7
42.5°	1039.2	1026.5	1025.5	1007.3	1006.0
45°	961.5	948.8	944.6	927.7	925.2
47.5°	872.8	860.2	852.3	838.6	836.8
50°	808.6	795.9	789.1	777.4	773.6
52.5°	739.1	726.4	720.7	710.0	706.2
55°	629.7	619.6	615.5	605.1	602.5
57.5°	525.8	519.0	517.8	507.7	506.6
60°	462.6	458.8	458.7	449.6	449.6
62.5°	408.7	405.9	407.9	401.9	400.9
65°	338.2	335.7	339.5	336.9	336.9
67.5°	282.5	282.5	284.8	283.8	283.8
70°	251.4	251.4	252.7	252.7	252.7
72.5°	223.4	222.4	225.7	225.7	224.7
75°	182.7	182.7	182.7	184.0	184.0
77.5°	142.3	142.5	143.6	143.3	142.3
80°	115.3	116.6	116.6	115.3	115.3
82.5°	88.4	89.6	89.7	89.4	88.4
85°	46.6	49.2	51.8	51.8	51.8
87.5°	13.5	17.5	20.7	20.7	19.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.7	40.6	94.1	27.4	20.7
95°	24.9	98.8	443.9	153.7	94.7
97.5°	45.7	115.7	683.7	489.2	335.2
100°	60.3	125.8	735.7	745.2	574.0
102.5°	76.3	136.6	724.3	953.9	804.4
105°	101.4	153.8	664.9	1174.5	1116.5
107.5°	126.9	173.8	595.7	1236.7	1288.3
110°	144.5	188.4	555.9	1212.9	1328.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	161.3	203.0	529.1	1156.6	1322.0
115°	188.5	227.8	504.2	1068.1	1254.3
117.5°	212.4	249.3	489.5	971.4	1168.6
120°	231.5	262.4	487.9	916.1	1105.0
122.5°	246.8	277.7	484.1	867.5	1043.0
125°	266.0	295.0	481.2	798.6	954.8
127.5°	286.8	314.0	479.7	757.4	886.1
130°	297.5	324.7	477.4	728.7	841.0
132.5°	309.0	335.4	477.4	706.3	809.6
135°	325.3	352.4	475.5	674.6	762.5
137.5°	340.6	367.0	475.3	647.7	723.7
140°	352.1	379.2	474.5	625.5	698.4
142.5°	365.1	387.7	476.8	607.7	673.2
145°	383.7	403.3	479.3	583.8	636.2
147.5°	399.5	418.6	483.5	559.8	605.0
150°	413.3	426.4	485.1	551.8	583.6
152.5°	424.0	437.9	486.6	541.0	570.6
155°	438.2	448.5	490.8	527.7	549.2
157.5°	455.8	462.0	491.8	521.6	536.9
160°	465.0	469.7	495.6	516.9	530.0
162.5°	470.3	475.8	496.4	513.0	523.1
165°	484.1	486.0	496.5	507.2	514.7
167.5°	493.5	491.8	500.9	505.8	508.8
170°	496.5	495.6	499.4	500.5	504.2
172.5°	503.4	500.3	501.7	498.9	501.9
175°	507.1	504.3	502.3	499.3	495.6
177.5°	508.6	504.1	501.7	498.7	499.4
180°	503.2	503.2	503.2	503.2	503.2

(END OF REPORT)