

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: P563610

Luminaire Tested: **SQ4-PP3-100U-100D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563610
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-100D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

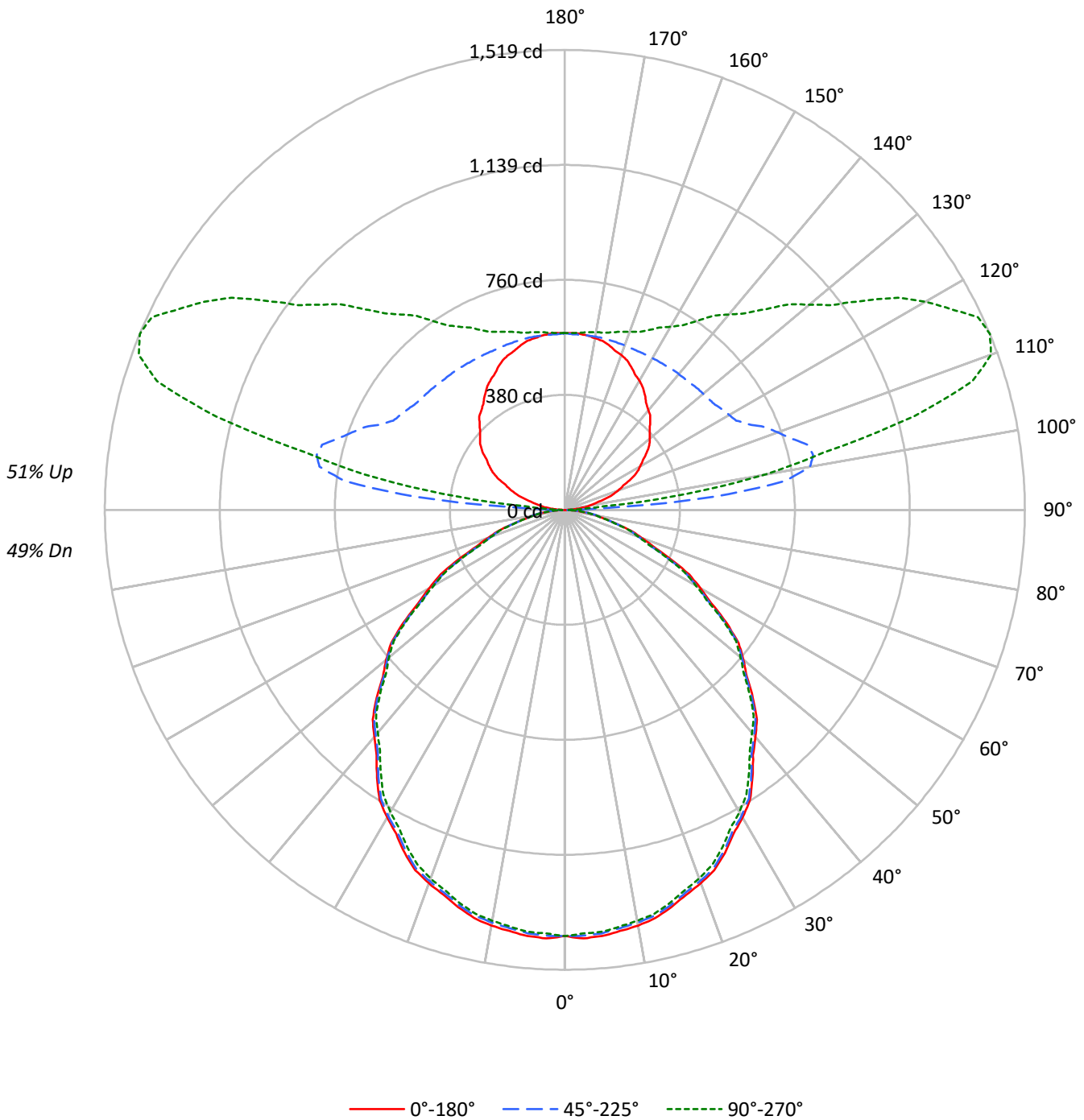
Lumens per Lamp: N/A
Luminaire Lumens: 7395.5 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57.9
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49		
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41		
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	40	35		
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	38	36	34	30		
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26		
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22		
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20		
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	22	20	17		
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16		
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14		
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12989	12989	12989
5°	13085	13004	12959
10°	13063	12970	12912
15°	12976	12905	12835
20°	12889	12817	12721
25°	12736	12649	12523
30°	12501	12435	12277
35°	12174	12091	11938
40°	11785	11710	11577
45°	11463	11382	11269
50°	11051	10980	10874
55°	10480	10340	10261
60°	9540	9267	9221
65°	8405	8053	8027
70°	7256	6957	6957
75°	6245	6156	6071
80°	5504	5574	5441
85°	4308	4700	4700



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	1.8
10°-20°	380.1	5.1
20°-30°	569.4	7.7
30°-40°	667.8	9.0
40°-50°	669.9	9.1
50°-60°	571.5	7.7
60°-70°	372.7	5.0
70°-80°	187.0	2.5
80°-90°	53.0	0.7
90°-100°	273.2	3.7
100°-110°	754.3	10.2
110°-120°	777.9	10.5
120°-130°	625.1	8.5
130°-140°	491.3	6.6
140°-150°	376.8	5.1
150°-160°	270.8	3.7
160°-170°	165.6	2.2
170°-180°	55.8	0.8
0°-30°	1082.6	14.6
0°-40°	1750.4	23.7
0°-60°	2991.8	40.5
0°-90°	3604.5	48.7
90°-120°	1805.5	24.4
90°-150°	3298.7	44.6
90°-180°	3791.0	51.3
0°-180°	7395.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1413	1400	1404	1399	1399	134
15°	1358	1345	1351	1346	1344	383
25°	1251	1237	1242	1231	1230	575
35°	1081	1070	1074	1061	1060	675
45°	878	872	872	864	864	676
55°	652	649	643	639	638	579
65°	385	378	369	366	368	384
75°	175	175	173	172	170	190
85°	41	44	44	44	44	48
90°	2	4	8	8	9	4
95°	40	148	496	204	133	43
105°	134	207	830	1267	1193	143
115°	241	291	668	1323	1505	237
125°	330	376	606	1025	1203	294
135°	398	441	589	830	936	308
145°	461	493	582	707	761	289
155°	520	537	577	634	654	240
165°	563	570	580	602	607	159
175°	584	584	581	589	587	55
180°	584	584	584	584	584	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1407.8	1407.8	1407.8	1407.8	1407.8
2.5°	1416.7	1405.1	1407.8	1405.7	1400.0
5°	1412.8	1399.5	1404.1	1399.2	1399.2
7.5°	1403.2	1388.7	1393.3	1388.3	1388.1
10°	1394.3	1379.8	1384.4	1379.4	1378.2
12.5°	1381.4	1367.0	1372.6	1366.6	1366.4
15°	1358.5	1345.2	1351.1	1346.1	1343.7
17.5°	1332.6	1318.1	1325.2	1318.2	1317.3
20°	1312.8	1298.4	1305.4	1295.6	1295.6
22.5°	1289.1	1274.7	1282.7	1269.9	1269.9
25°	1251.1	1236.7	1242.5	1231.4	1230.2
27.5°	1206.0	1191.7	1197.8	1185.3	1185.0
30°	1173.4	1160.1	1167.2	1153.6	1152.4
32.5°	1137.9	1125.6	1130.7	1117.1	1115.9
35°	1080.9	1070.0	1073.5	1061.1	1059.9
37.5°	1020.9	1009.8	1013.7	1003.1	1002.6
40°	978.5	971.2	972.3	963.6	961.2
42.5°	939.0	930.8	931.8	923.2	922.7
45°	878.5	872.5	872.3	863.7	863.7
47.5°	814.4	809.8	808.4	801.3	801.0
50°	769.9	766.3	765.0	758.8	757.6
52.5°	723.5	721.9	717.6	712.4	712.2
55°	651.5	649.1	642.8	639.1	637.9
57.5°	573.3	568.4	561.4	556.0	557.0
60°	517.0	512.2	502.2	499.7	499.7
62.5°	462.7	456.9	446.9	443.5	445.4
65°	385.0	377.7	368.9	366.5	367.7
67.5°	314.4	307.9	298.4	298.3	297.4
70°	269.0	265.4	257.9	257.9	257.9
72.5°	228.5	226.8	221.4	221.3	220.4
75°	175.2	175.2	172.7	171.5	170.3
77.5°	131.3	131.8	130.5	129.3	127.1
80°	103.6	106.1	104.9	103.6	102.4
82.5°	78.0	80.4	80.2	78.0	77.7
85°	40.7	44.3	44.4	44.4	44.4
87.5°	11.2	15.5	17.3	17.5	18.6
90°	1.9	3.7	7.5	8.4	9.3
92.5°	16.8	69.7	124.7	45.5	35.5
95°	40.1	147.8	495.7	203.8	132.6
97.5°	66.5	165.6	734.3	565.3	409.4
100°	85.9	176.2	822.4	828.2	673.1
102.5°	104.6	188.3	839.6	1023.3	876.2
105°	134.4	207.4	829.9	1267.0	1193.0
107.5°	166.2	231.2	783.6	1384.5	1411.5
110°	188.6	247.0	747.8	1409.7	1497.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	208.7	265.0	714.1	1389.8	1519.0
115°	240.8	291.1	668.4	1323.2	1504.8
117.5°	268.9	318.9	638.3	1229.5	1436.1
120°	287.5	336.8	626.4	1166.0	1374.1
122.5°	305.4	352.5	616.7	1106.8	1303.9
125°	330.5	376.1	605.9	1025.3	1203.3
127.5°	351.8	397.4	599.5	956.4	1110.0
130°	365.9	411.6	596.5	914.3	1053.9
132.5°	379.4	422.8	593.5	878.9	1005.4
135°	397.7	440.6	589.1	830.4	936.3
137.5°	418.2	457.3	586.8	789.8	880.1
140°	429.4	467.8	585.3	762.6	842.0
142.5°	442.1	477.5	583.8	738.5	808.4
145°	461.2	493.1	581.6	707.0	760.8
147.5°	479.5	507.4	579.5	680.4	722.2
150°	492.9	515.7	578.8	664.5	698.3
152.5°	503.4	524.7	578.0	650.9	678.9
155°	520.0	537.3	576.9	634.3	654.4
157.5°	535.3	548.6	577.1	622.2	635.9
160°	544.2	556.1	577.9	615.4	625.5
162.5°	551.7	562.1	578.6	609.4	617.2
165°	562.9	570.2	579.7	602.2	606.8
167.5°	571.5	575.9	580.7	597.9	599.3
170°	576.0	579.6	580.7	595.6	595.6
172.5°	579.7	581.9	580.7	592.6	591.9
175°	583.5	584.4	580.7	589.0	587.2
177.5°	584.9	584.2	580.5	585.7	584.2
180°	583.5	583.5	583.5	583.5	583.5

(END OF REPORT)