

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: P563580

Luminaire Tested: **SQ4-PP3-100U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563580
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-050D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

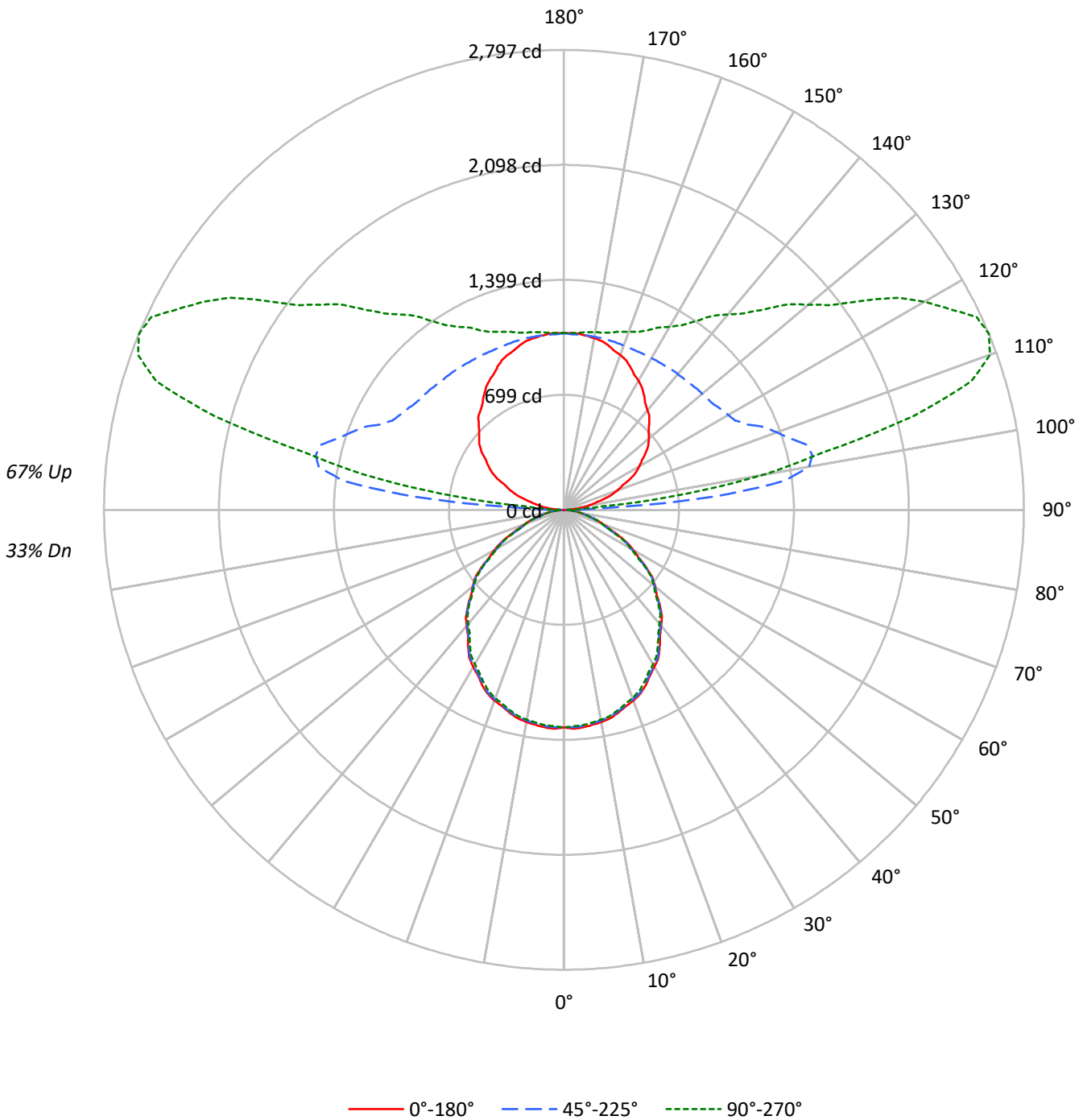
Lumens per Lamp: N/A
Luminaire Lumens: 10369.2 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 84.7
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	32	30	29	23
3	78	69	62	56	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	54	47	41	59	49	43	37	40	35	31	31	27	25	23	20	19	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	29	24	21	23	20	17	17	15	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6105	6105	6105
5°	6151	6113	6091
10°	6140	6097	6069
15°	6099	6066	6033
20°	6059	6025	5979
25°	5987	5946	5887
30°	5876	5845	5771
35°	5722	5683	5611
40°	5540	5505	5441
45°	5388	5350	5297
50°	5195	5161	5111
55°	4926	4861	4823
60°	4484	4356	4334
65°	3950	3786	3773
70°	3411	3269	3269
75°	2936	2895	2854
80°	2588	2619	2558
85°	2027	2212	2212



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	1.2
10°-20°	357.4	3.4
20°-30°	535.3	5.2
30°-40°	627.8	6.1
40°-50°	629.8	6.1
50°-60°	537.3	5.2
60°-70°	350.4	3.4
70°-80°	175.8	1.7
80°-90°	50.9	0.5
90°-100°	503.0	4.9
100°-110°	1388.8	13.4
110°-120°	1432.3	13.8
120°-130°	1150.9	11.1
130°-140°	904.5	8.7
140°-150°	693.7	6.7
150°-160°	498.6	4.8
160°-170°	304.9	2.9
170°-180°	102.8	1.0
0°-30°	1017.8	9.8
0°-40°	1645.6	15.9
0°-60°	2812.7	27.1
0°-90°	3389.8	32.7
90°-120°	3324.1	32.1
90°-150°	6073.2	58.6
90°-180°	6979.0	67.3
0°-180°	10369.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1324	1324	1324	1324	1324	
5°	1328	1316	1320	1315	1315	126
15°	1277	1265	1270	1266	1263	360
25°	1176	1163	1168	1158	1156	541
35°	1016	1006	1009	998	996	635
45°	826	820	820	812	812	636
55°	612	610	604	601	600	544
65°	362	355	347	344	346	361
75°	165	165	162	161	160	179
85°	38	42	42	42	42	45
90°	3	7	14	16	17	7
95°	74	272	913	375	244	79
105°	248	382	1528	2333	2196	263
115°	443	536	1231	2436	2770	436
125°	608	692	1115	1888	2215	541
135°	732	811	1084	1529	1724	566
145°	849	908	1071	1302	1401	532
155°	957	989	1062	1168	1205	441
165°	1036	1050	1067	1109	1117	292
175°	1074	1076	1069	1084	1081	102
180°	1074	1074	1074	1074	1074	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1323.5	1323.5	1323.5	1323.5	1323.5
2.5°	1331.9	1321.0	1323.5	1321.6	1316.1
5°	1328.2	1315.7	1320.1	1315.4	1315.4
7.5°	1319.1	1305.5	1309.9	1305.2	1305.0
10°	1310.8	1297.2	1301.5	1296.8	1295.7
12.5°	1298.7	1285.1	1290.4	1284.8	1284.6
15°	1277.1	1264.7	1270.2	1265.5	1263.2
17.5°	1252.8	1239.2	1245.8	1239.3	1238.4
20°	1234.2	1220.6	1227.3	1218.0	1218.0
22.5°	1212.0	1198.3	1205.9	1193.9	1193.9
25°	1176.2	1162.6	1168.1	1157.6	1156.5
27.5°	1133.8	1120.4	1126.1	1114.3	1114.0
30°	1103.1	1090.7	1097.3	1084.6	1083.4
32.5°	1069.7	1058.2	1063.0	1050.2	1049.1
35°	1016.1	1005.9	1009.2	997.6	996.4
37.5°	959.8	949.3	953.0	943.1	942.6
40°	919.9	913.1	914.1	905.9	903.6
42.5°	882.7	875.0	876.0	867.9	867.4
45°	825.9	820.2	820.1	812.0	812.0
47.5°	765.6	761.3	760.0	753.3	753.1
50°	723.8	720.4	719.2	713.4	712.2
52.5°	680.2	678.6	674.6	669.8	669.5
55°	612.5	610.2	604.4	600.8	599.7
57.5°	538.9	534.4	527.8	522.7	523.6
60°	486.0	481.5	472.1	469.8	469.8
62.5°	435.0	429.6	420.1	416.9	418.8
65°	361.9	355.1	346.8	344.5	345.7
67.5°	295.6	289.4	280.5	280.5	279.6
70°	252.9	249.5	242.4	242.4	242.4
72.5°	214.8	213.2	208.1	208.1	207.2
75°	164.7	164.7	162.4	161.2	160.1
77.5°	123.4	123.9	122.7	121.5	119.5
80°	97.4	99.7	98.6	97.4	96.3
82.5°	73.3	75.6	75.4	73.3	73.1
85°	38.3	41.7	41.8	41.8	41.8
87.5°	10.9	15.2	17.6	18.0	19.2
90°	3.4	6.8	13.7	15.5	17.2
92.5°	30.9	128.4	229.6	83.8	65.3
95°	73.9	272.2	912.6	375.1	244.1
97.5°	122.4	304.9	1351.9	1040.9	753.8
100°	158.1	324.5	1514.2	1524.9	1239.2
102.5°	192.5	346.8	1545.8	1884.1	1613.2
105°	247.5	381.9	1527.9	2332.6	2196.5
107.5°	305.9	425.6	1442.7	2548.9	2598.7
110°	347.2	454.7	1376.7	2595.5	2756.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	384.3	487.8	1314.8	2558.7	2796.7
115°	443.4	535.9	1230.6	2436.1	2770.5
117.5°	495.0	587.1	1175.2	2263.6	2644.0
120°	529.4	620.1	1153.2	2146.8	2529.9
122.5°	562.4	649.1	1135.4	2037.7	2400.7
125°	608.4	692.4	1115.4	1887.7	2215.4
127.5°	647.6	731.6	1103.7	1760.9	2043.5
130°	673.7	757.8	1098.2	1683.3	1940.4
132.5°	698.5	778.5	1092.7	1618.1	1851.0
135°	732.2	811.1	1084.5	1528.9	1723.9
137.5°	770.0	841.9	1080.4	1454.0	1620.4
140°	790.6	861.2	1077.6	1404.1	1550.3
142.5°	814.0	879.2	1074.9	1359.7	1488.4
145°	849.0	907.9	1070.7	1301.6	1400.7
147.5°	882.7	934.1	1067.0	1252.6	1329.6
150°	907.5	949.5	1065.6	1223.4	1285.6
152.5°	926.7	966.0	1064.2	1198.4	1249.8
155°	957.3	989.2	1062.2	1167.8	1204.8
157.5°	985.5	1010.0	1062.5	1145.6	1170.8
160°	1002.0	1023.8	1063.9	1133.0	1151.5
162.5°	1015.8	1034.9	1065.2	1122.0	1136.4
165°	1036.4	1049.8	1067.3	1108.8	1117.2
167.5°	1052.2	1060.3	1069.0	1100.7	1103.4
170°	1060.4	1067.2	1069.0	1096.5	1096.5
172.5°	1067.3	1071.3	1069.0	1091.0	1089.7
175°	1074.2	1075.9	1069.0	1084.4	1081.1
177.5°	1076.9	1075.6	1068.7	1078.2	1075.6
180°	1074.2	1074.2	1074.2	1074.2	1074.2

(END OF REPORT)