

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: P563768

Luminaire Tested: **SQ4-PP3-150U-050D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563768
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PP3-150U-050D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

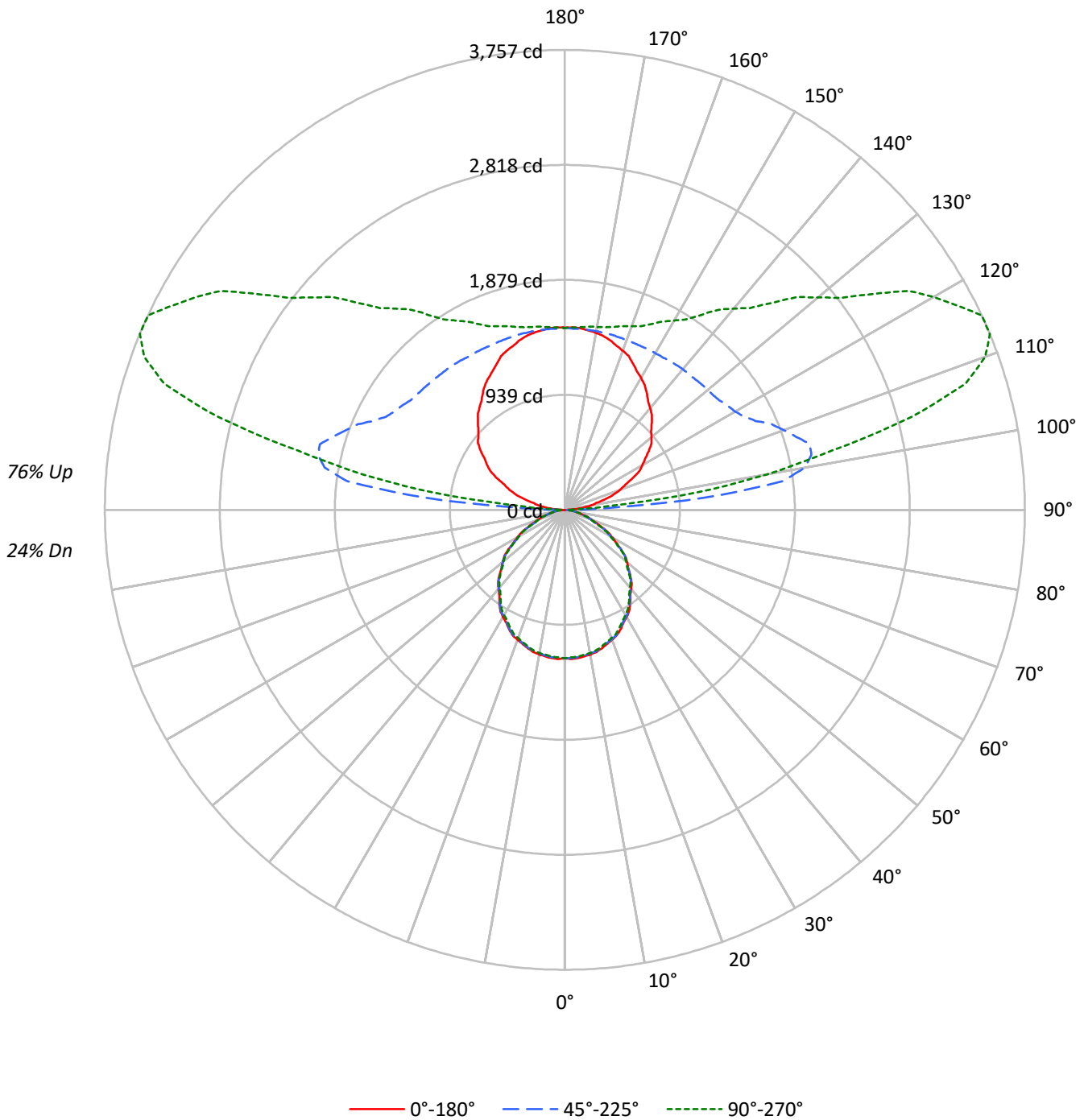
Lumens per Lamp: N/A
Luminaire Lumens: 12692.7 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 111.9
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



TEST NUMBER: P563768
CATALOG NUMBER: SQ4-PP3-150U-050D-930-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P563768

CATALOG NUMBER: SQ4-PP3-150U-050D-930-1D-UNV-STD-W-8

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	50	30	10	0	
RCR																						
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24				24
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21				21
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	26	24	23	18				18
3	77	68	61	55	68	60	55	50	47	43	40	34	32	30	23	21	20	15				15
4	70	60	52	46	62	53	47	42	42	37	34	31	28	25	20	19	17	13				13
5	64	53	45	40	57	48	41	36	37	32	29	27	24	22	18	16	15	11				11
6	59	47	40	34	52	43	36	31	33	29	25	25	21	19	17	15	13	10				10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9				9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8				8
9	47	35	28	23	42	32	25	21	25	20	17	19	15	13	13	11	9	7				7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6				6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5592	5592	5592
5°	5633	5598	5579
10°	5623	5584	5558
15°	5586	5556	5525
20°	5549	5518	5476
25°	5483	5445	5391
30°	5382	5353	5285
35°	5241	5205	5139
40°	5073	5041	4984
45°	4935	4900	4851
50°	4757	4727	4681
55°	4511	4452	4417
60°	4107	3989	3969
65°	3618	3467	3456
70°	3124	2994	2994
75°	2690	2650	2613
80°	2370	2399	2343
85°	1858	2022	2022



TEST NUMBER: P563768

CATALOG NUMBER: SQ4-PP3-150U-050D-930-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	0.9
10°-20°	327.3	2.6
20°-30°	490.2	3.9
30°-40°	575.0	4.5
40°-50°	576.8	4.5
50°-60°	492.1	3.9
60°-70°	320.9	2.5
70°-80°	161.0	1.3
80°-90°	47.7	0.4
90°-100°	691.1	5.4
100°-110°	1868.5	14.7
110°-120°	1964.4	15.5
120°-130°	1595.6	12.6
130°-140°	1251.7	9.9
140°-150°	960.7	7.6
150°-160°	690.9	5.4
160°-170°	422.1	3.3
170°-180°	142.3	1.1
0°-30°	932.1	7.3
0°-40°	1507.1	11.9
0°-60°	2576.0	20.3
0°-90°	3105.5	24.5
90°-120°	4524.0	35.6
90°-150°	8331.9	65.6
90°-180°	9587.0	75.5
0°-180°	12692.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1212	1212	1212	1212	1212	
5°	1216	1205	1209	1205	1205	116
15°	1170	1158	1163	1159	1157	330
25°	1077	1065	1070	1060	1059	495
35°	931	921	924	914	913	581
45°	756	751	751	744	744	582
55°	561	559	554	550	549	498
65°	332	325	318	316	317	331
75°	151	151	149	148	147	164
85°	35	38	38	38	38	41
90°	3	10	21	22	21	8
95°	107	376	1149	595	354	112
105°	347	537	2073	3058	2932	366
115°	611	748	1719	3328	3757	604
125°	837	959	1549	2615	3072	746
135°	1004	1122	1508	2111	2390	776
145°	1167	1254	1487	1807	1945	730
155°	1317	1369	1474	1621	1674	608
165°	1434	1448	1481	1538	1546	404
175°	1489	1487	1482	1501	1498	141
180°	1487	1487	1487	1487	1487	

TEST NUMBER: P563768

CATALOG NUMBER: SQ4-PP3-150U-050D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1212.1	1212.1	1212.1	1212.1	1212.1
2.5°	1219.8	1209.8	1212.1	1210.3	1205.3
5°	1216.4	1205.0	1208.9	1204.7	1204.7
7.5°	1208.1	1195.6	1199.6	1195.3	1195.1
10°	1200.5	1188.0	1192.0	1187.7	1186.6
12.5°	1189.4	1176.9	1181.8	1176.6	1176.4
15°	1169.6	1158.2	1163.3	1159.0	1156.9
17.5°	1147.3	1134.9	1141.0	1135.0	1134.2
20°	1130.3	1117.9	1124.0	1115.5	1115.5
22.5°	1109.9	1097.5	1104.4	1093.4	1093.4
25°	1077.2	1064.8	1069.8	1060.2	1059.2
27.5°	1038.3	1026.1	1031.3	1020.5	1020.3
30°	1010.3	998.9	1005.0	993.3	992.2
32.5°	979.7	969.1	973.5	961.8	960.8
35°	930.6	921.3	924.2	913.6	912.6
37.5°	879.0	869.4	872.8	863.7	863.3
40°	842.4	836.2	837.1	829.6	827.6
42.5°	808.4	801.4	802.3	794.8	794.4
45°	756.4	751.2	751.1	743.6	743.6
47.5°	701.1	697.2	696.0	689.9	689.7
50°	662.9	659.8	658.7	653.3	652.3
52.5°	623.0	621.5	617.9	613.4	613.2
55°	560.9	558.8	553.5	550.3	549.2
57.5°	493.6	489.4	483.4	478.7	479.5
60°	445.1	441.0	432.4	430.2	430.2
62.5°	398.4	393.4	384.8	381.8	383.5
65°	331.5	325.2	317.6	315.5	316.6
67.5°	270.7	265.1	256.9	256.9	256.0
70°	231.6	228.5	222.0	222.0	222.0
72.5°	196.7	195.3	190.6	190.6	189.7
75°	150.9	150.9	148.7	147.6	146.6
77.5°	113.0	113.4	112.4	111.3	109.4
80°	89.2	91.3	90.3	89.2	88.2
82.5°	67.1	69.2	69.1	67.1	66.9
85°	35.1	38.2	38.2	38.2	38.2
87.5°	10.0	14.6	17.8	18.1	18.6
90°	3.2	9.5	20.8	22.4	20.8
92.5°	45.5	165.7	326.8	141.9	102.8
95°	107.2	376.4	1149.3	594.8	353.7
97.5°	172.2	431.7	1791.4	1482.5	1088.8
100°	220.9	454.1	1991.2	2076.6	1679.1
102.5°	265.7	485.1	2061.6	2527.0	2229.7
105°	347.3	536.7	2072.8	3057.6	2932.4
107.5°	422.9	595.7	1982.2	3388.5	3430.2
110°	481.8	638.3	1901.6	3477.4	3654.3



TEST NUMBER: P563768

CATALOG NUMBER: SQ4-PP3-150U-050D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	534.3	680.8	1827.3	3459.6	3756.7
115°	611.4	747.6	1719.1	3327.9	3756.7
117.5°	687.0	814.7	1647.7	3126.5	3612.6
120°	733.1	858.3	1605.4	2982.1	3478.2
122.5°	776.6	899.3	1579.8	2827.2	3327.1
125°	837.1	959.2	1549.4	2614.6	3071.6
127.5°	892.8	1012.7	1531.5	2441.1	2843.0
130°	923.6	1047.2	1523.8	2334.0	2697.1
132.5°	955.6	1078.0	1516.1	2237.3	2571.6
135°	1003.6	1122.5	1507.8	2111.2	2389.7
137.5°	1051.9	1164.3	1500.8	2008.8	2235.8
140°	1085.2	1190.1	1498.2	1943.0	2144.9
142.5°	1117.2	1215.8	1493.1	1883.5	2060.3
145°	1166.9	1254.5	1487.0	1807.0	1944.8
147.5°	1212.0	1289.6	1479.9	1737.8	1843.6
150°	1245.3	1314.2	1477.4	1700.2	1784.7
152.5°	1276.0	1336.1	1476.1	1665.3	1734.8
155°	1317.3	1369.0	1474.2	1621.1	1674.3
157.5°	1360.2	1396.2	1474.5	1590.2	1625.3
160°	1384.5	1414.3	1475.8	1570.8	1595.8
162.5°	1403.8	1428.5	1477.1	1555.3	1574.1
165°	1434.2	1448.3	1480.6	1538.4	1546.2
167.5°	1455.0	1464.7	1480.9	1523.9	1527.6
170°	1467.8	1472.5	1482.2	1517.4	1517.4
172.5°	1478.0	1479.0	1482.2	1509.7	1508.4
175°	1488.6	1487.0	1482.2	1501.3	1498.2
177.5°	1492.1	1488.4	1481.9	1494.6	1490.8
180°	1487.0	1487.0	1487.0	1487.0	1487.0

(END OF REPORT)