

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P845079

Luminaire Tested: **SQ4P-PP3-050U-100D-B40-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845079
REPORT IS A COMBINATION OF REPORTS P700201 AND P700244
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-050U-100D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

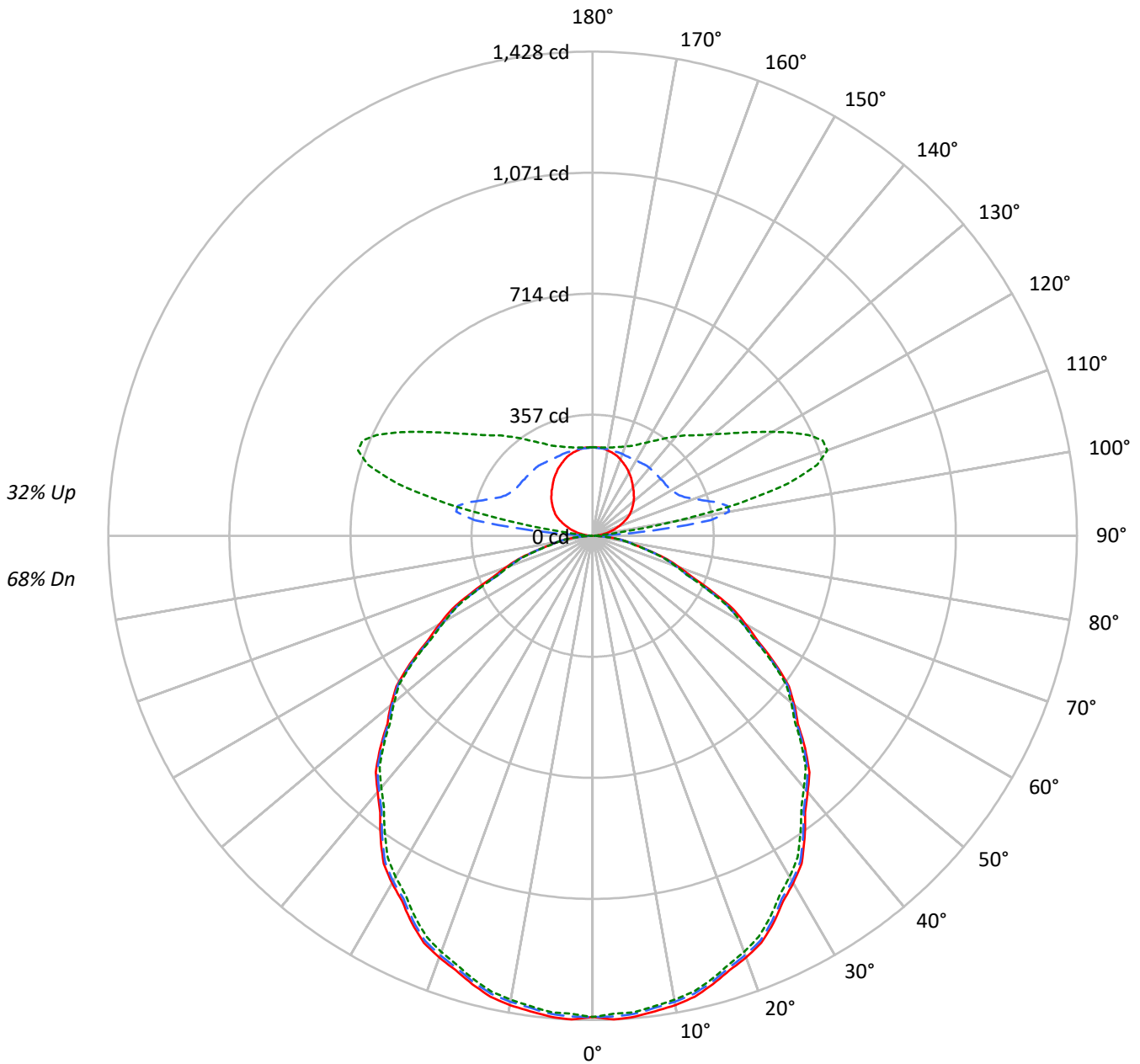
Lumens per Lamp: N/A
Luminaire Lumens: 5326.2 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 47.9
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

TEST NUMBER: P845079

CATALOG NUMBER: SQ4P-PP3-050U-100D-B40-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P845079

CATALOG NUMBER: SQ4P-PP3-050U-100D-B40-1D-UNV

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73	68																			
1	102	98	94	90	96	92	89	86	83	80	78	73	71	70	65	63	62	58																			
2	93	86	80	74	88	81	76	71	73	68	65	65	61	59	57	55	53	49																			
3	85	76	68	62	80	72	65	60	64	59	55	57	53	50	51	48	45	42																			
4	78	67	59	53	73	64	56	51	57	51	47	51	47	43	46	42	39	36																			
5	72	60	52	45	68	57	49	44	51	45	40	46	41	37	41	37	34	31																			
6	66	54	46	40	62	51	44	38	46	40	35	42	37	33	37	33	30	27																			
7	61	49	41	35	58	46	39	34	42	36	31	38	33	29	34	30	27	24																			
8	57	44	36	31	54	42	35	30	38	32	28	35	30	26	31	27	24	22																			
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	25	22	20																			
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20	18																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13093	13093	13093
5°	13188	13108	13062
10°	13167	13074	13016
15°	13080	13008	12937
20°	12993	12919	12822
25°	12838	12750	12624
30°	12601	12535	12375
35°	12271	12188	12032
40°	11878	11803	11669
45°	11555	11474	11359
50°	11138	11068	10960
55°	10562	10423	10345
60°	9616	9341	9294
65°	8473	8117	8091
70°	7310	7011	7011
75°	6299	6206	6114
80°	5552	5616	5478
85°	4340	4742	4742



TEST NUMBER: P845079

CATALOG NUMBER: SQ4P-PP3-050U-100D-B40-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	2.5
10°-20°	383.2	7.2
20°-30°	573.9	10.8
30°-40°	673.2	12.6
40°-50°	675.2	12.7
50°-60°	576.1	10.8
60°-70°	375.7	7.1
70°-80°	188.5	3.5
80°-90°	52.8	1.0
90°-100°	103.8	1.9
100°-110°	361.4	6.8
110°-120°	350.0	6.6
120°-130°	274.6	5.2
130°-140°	217.3	4.1
140°-150°	167.7	3.1
150°-160°	120.2	2.3
160°-170°	73.5	1.4
170°-180°	24.9	0.5
0°-30°	1091.3	20.5
0°-40°	1764.4	33.1
0°-60°	3015.7	56.6
0°-90°	3632.7	68.2
90°-120°	815.2	15.3
90°-150°	1474.9	27.7
90°-180°	1694.0	31.8
0°-180°	5326.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1419	1419	1419	1419	1419	
5°	1424	1411	1415	1410	1410	135
15°	1369	1356	1362	1357	1354	386
25°	1261	1246	1252	1241	1240	580
35°	1090	1079	1082	1070	1068	681
45°	886	879	879	871	871	682
55°	657	654	648	644	643	584
65°	388	381	372	370	371	387
75°	177	177	174	173	172	192
85°	41	45	45	45	45	48
90°	4	6	6	4	2	4
95°	18	60	175	45	27	19
105°	60	86	380	641	596	63
115°	105	127	282	596	703	104
125°	142	175	263	444	530	127
135°	171	193	261	370	419	133
145°	201	214	259	319	347	125
155°	228	236	255	284	294	105
165°	249	251	257	269	271	70
175°	261	261	259	263	261	25
180°	261	261	261	261	261	



TEST NUMBER: P845079

CATALOG NUMBER: SQ4P-PP3-050U-100D-B40-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1419.1	1419.1	1419.1	1419.1	1419.1
2.5°	1427.9	1416.4	1419.1	1417.0	1411.2
5°	1424.0	1410.8	1415.3	1410.4	1410.4
7.5°	1414.4	1399.8	1404.4	1399.4	1399.2
10°	1405.4	1390.8	1395.5	1390.4	1389.3
12.5°	1392.5	1378.0	1383.5	1377.5	1377.3
15°	1369.4	1355.9	1361.9	1356.8	1354.4
17.5°	1343.2	1328.7	1335.8	1328.9	1327.8
20°	1323.3	1308.7	1315.8	1305.9	1305.9
22.5°	1299.5	1284.9	1293.0	1279.9	1279.9
25°	1261.1	1246.5	1252.5	1241.2	1240.1
27.5°	1215.6	1201.3	1207.5	1194.7	1194.4
30°	1182.8	1169.4	1176.6	1162.9	1161.6
32.5°	1147.0	1134.6	1139.7	1126.1	1124.7
35°	1089.5	1078.6	1082.1	1069.7	1068.3
37.5°	1029.0	1017.9	1021.8	1011.0	1010.6
40°	986.2	978.9	980.0	971.2	968.9
42.5°	946.5	938.1	939.2	930.4	930.0
45°	885.6	879.4	879.4	870.6	870.6
47.5°	820.9	816.1	814.9	807.5	807.3
50°	776.0	772.4	771.1	764.9	763.6
52.5°	729.3	727.6	723.3	718.2	718.0
55°	656.6	654.2	648.0	644.1	643.1
57.5°	577.9	573.0	565.9	560.5	561.4
60°	521.1	516.1	506.2	503.7	503.7
62.5°	466.4	460.6	450.5	447.1	449.1
65°	388.1	380.8	371.8	369.5	370.6
67.5°	317.0	310.3	300.6	300.6	299.8
70°	271.0	267.4	259.9	259.9	259.9
72.5°	230.3	228.6	223.3	223.0	222.1
75°	176.7	176.7	174.1	172.9	171.5
77.5°	132.3	132.8	131.7	130.3	128.0
80°	104.5	107.0	105.7	104.5	103.1
82.5°	78.7	81.0	80.8	78.7	78.3
85°	41.0	44.6	44.8	44.8	44.8
87.5°	11.0	14.8	15.9	15.9	17.0
90°	3.9	5.8	5.8	3.9	1.9
92.5°	9.7	29.2	27.2	11.7	9.7
95°	17.5	60.4	175.3	44.8	27.2
97.5°	27.2	68.1	350.5	159.7	85.7
100°	37.0	72.1	408.9	383.7	247.3
102.5°	48.6	77.9	407.0	539.4	444.0
105°	60.4	85.7	379.8	640.6	595.9



TEST NUMBER: P845079

CATALOG NUMBER: SQ4P-PP3-050U-100D-B40-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	93.5	114.9	296.0	644.6	734.2
115°	105.1	126.6	282.4	595.9	703.0
117.5°	116.9	140.2	274.5	551.1	658.2
120°	126.6	151.9	268.7	508.3	613.4
122.5°	134.4	163.6	264.8	473.2	568.6
125°	142.2	175.3	262.9	444.0	529.7
127.5°	149.9	183.1	262.9	422.6	494.6
130°	157.8	186.9	261.0	401.2	465.4
132.5°	165.5	188.9	261.0	385.6	440.1
135°	171.3	192.7	261.0	370.0	418.7
137.5°	179.2	196.7	261.0	356.3	401.2
140°	185.0	202.5	261.0	342.8	381.7
142.5°	192.7	208.3	261.0	329.1	364.2
145°	200.6	214.3	259.0	319.4	346.6
147.5°	208.3	220.1	257.1	309.6	331.0
150°	214.3	225.9	257.1	299.9	317.5
152.5°	222.0	231.7	255.2	290.1	305.7
155°	227.8	235.7	255.2	284.3	294.0
157.5°	233.6	241.5	255.2	278.5	286.3
160°	239.6	245.4	257.1	274.5	280.4
162.5°	245.4	249.2	257.1	270.7	274.5
165°	249.2	251.2	257.1	268.7	270.7
167.5°	253.1	255.2	257.1	266.8	266.8
170°	255.2	257.1	259.0	264.8	264.8
172.5°	259.0	259.0	259.0	262.9	262.9
175°	261.0	261.0	259.0	262.9	261.0
177.5°	261.0	261.0	259.0	262.9	261.0
180°	261.0	261.0	261.0	261.0	261.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	72.1	95.5	344.7	685.5	693.3
110°	81.8	105.1	317.5	679.6	736.1



(END OF REPORT)