

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: P844998

Luminaire Tested: **SQ4P-PC3-050U-125D-B40-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P844998
REPORT IS A COMBINATION OF REPORTS P700198 AND P700244
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-050U-125D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

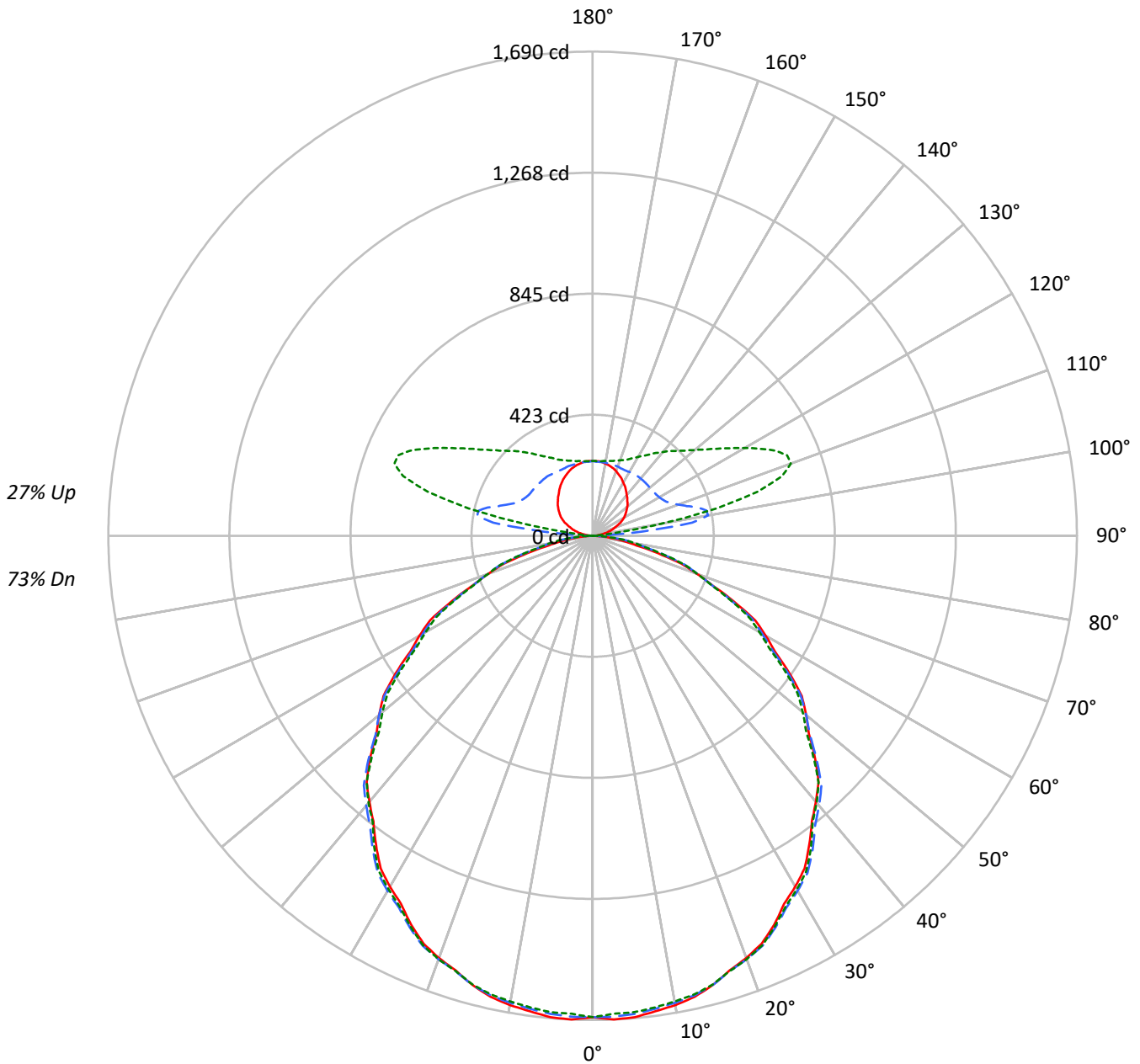
Lumens per Lamp: N/A
Luminaire Lumens: 6279.8 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 58.8
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: P844998

CATALOG NUMBER: SQ4P-PC3-050U-125D-B40-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P844998

CATALOG NUMBER: SQ4P-PC3-050U-125D-B40-1D-UNV

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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	77	77	77	73
1	103	99	95	91	98	94	90	87	85	82	79	76	74	72	68	67	66	66	66	66	62
2	94	86	80	74	89	82	76	71	74	70	66	67	63	60	60	58	55	55	55	55	52
3	86	76	68	62	81	72	65	60	65	60	55	59	55	51	53	50	47	47	47	47	44
4	78	67	59	53	74	64	57	51	58	52	47	53	48	44	48	44	40	40	40	40	37
5	72	60	51	45	68	57	49	44	52	46	41	47	42	38	43	39	35	35	35	35	32
6	66	54	45	39	63	51	44	38	47	40	36	43	37	33	39	34	31	31	31	31	28
7	61	49	40	35	58	47	39	34	43	36	31	39	34	29	36	31	27	27	27	27	25
8	57	44	36	31	54	42	35	30	39	33	28	36	30	26	33	28	25	25	25	25	22
9	53	41	33	27	51	39	32	27	36	30	25	33	28	24	30	26	22	22	22	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20	20	20	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15501	15501	15501
5°	15620	15518	15460
10°	15582	15510	15464
15°	15499	15499	15483
20°	15397	15442	15442
25°	15253	15362	15316
30°	15065	15247	15181
35°	14843	15069	14963
40°	14595	14803	14654
45°	14332	14433	14209
50°	13957	13957	13735
55°	13515	13338	13139
60°	12861	12603	12400
65°	11885	11651	11544
70°	10410	10491	10453
75°	8374	9265	9322
80°	5956	7853	7933
85°	3631	6584	6584



TEST NUMBER: P844998

CATALOG NUMBER: SQ4P-PC3-050U-125D-B40-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	2.5
10°-20°	456.3	7.3
20°-30°	691.0	11.0
30°-40°	828.5	13.2
40°-50°	844.7	13.5
50°-60°	737.4	11.7
60°-70°	527.9	8.4
70°-80°	272.0	4.3
80°-90°	69.4	1.1
90°-100°	103.8	1.7
100°-110°	361.4	5.8
110°-120°	350.0	5.6
120°-130°	274.6	4.4
130°-140°	217.3	3.5
140°-150°	167.7	2.7
150°-160°	120.2	1.9
160°-170°	73.5	1.2
170°-180°	24.9	0.4
0°-30°	1306.4	20.8
0°-40°	2134.8	34.0
0°-60°	3717.0	59.2
0°-90°	4586.3	73.0
90°-120°	815.2	13.0
90°-150°	1474.9	23.5
90°-180°	1694.0	27.0
0°-180°	6279.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1680	1680	1680	1680	1680	
5°	1687	1670	1676	1671	1669	160
15°	1623	1609	1623	1623	1621	458
25°	1498	1488	1509	1504	1504	690
35°	1318	1314	1338	1328	1328	824
45°	1098	1095	1106	1092	1089	845
55°	840	829	829	817	817	749
65°	544	532	534	529	529	538
75°	235	246	260	262	262	254
85°	34	52	62	64	62	47
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: P844998

CATALOG NUMBER: SQ4P-PC3-050U-125D-B40-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1680.1	1680.1	1680.1	1680.1	1680.1
2.5°	1690.2	1675.5	1680.1	1676.3	1670.2
5°	1686.6	1669.6	1675.5	1670.7	1669.3
7.5°	1674.2	1657.6	1665.3	1662.1	1660.5
10°	1663.2	1646.2	1655.5	1652.2	1650.6
12.5°	1648.2	1632.6	1642.9	1639.8	1639.4
15°	1622.7	1609.0	1622.7	1622.7	1621.0
17.5°	1590.5	1578.2	1592.7	1593.7	1592.7
20°	1568.2	1554.6	1572.8	1571.2	1572.8
22.5°	1540.9	1529.7	1549.2	1545.2	1546.8
25°	1498.3	1487.5	1509.0	1504.5	1504.5
27.5°	1447.9	1440.0	1463.7	1458.5	1458.5
30°	1414.1	1406.6	1431.2	1425.0	1425.0
32.5°	1376.7	1371.7	1395.3	1387.8	1387.8
35°	1317.8	1314.5	1337.9	1328.5	1328.5
37.5°	1256.7	1254.0	1275.2	1263.9	1260.2
40°	1211.8	1210.6	1229.1	1216.7	1216.7
42.5°	1167.0	1165.5	1181.9	1166.8	1166.8
45°	1098.4	1095.2	1106.2	1091.9	1089.0
47.5°	1023.3	1020.4	1027.1	1011.8	1010.2
50°	972.4	969.2	972.4	958.2	956.9
52.5°	920.1	914.5	915.0	901.0	900.7
55°	840.2	829.4	829.2	816.8	816.8
57.5°	755.4	741.5	742.8	732.1	730.5
60°	697.0	681.6	683.0	673.6	672.0
62.5°	639.6	622.1	625.6	615.2	614.9
65°	544.4	532.3	533.7	528.8	528.8
67.5°	452.9	441.7	450.0	446.3	446.0
70°	385.9	378.1	388.9	388.9	387.5
72.5°	323.7	323.4	336.6	336.6	337.6
75°	234.9	245.7	259.9	261.5	261.5
77.5°	156.9	175.7	191.5	192.0	191.8
80°	112.1	133.2	147.8	151.0	149.3
82.5°	75.9	98.5	110.5	113.5	112.1
85°	34.3	52.5	62.2	63.9	62.2
87.5°	9.9	20.9	24.9	24.9	22.5
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: P844998

CATALOG NUMBER: SQ4P-PC3-050U-125D-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)