

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: P844999

Luminaire Tested: **SQ4P-PC3-050U-125D-B50-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844999
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-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

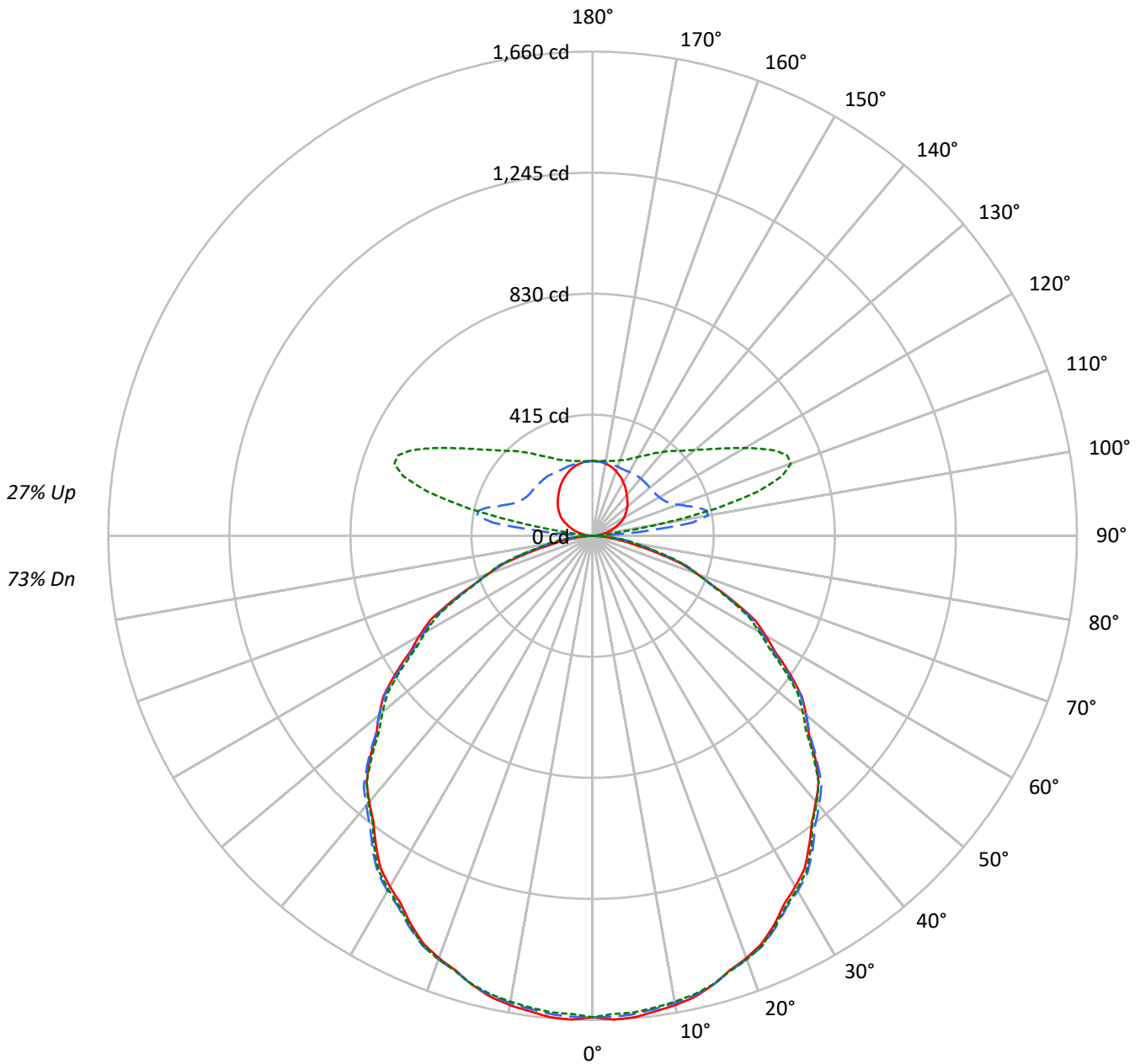
Lumens per Lamp: N/A
Luminaire Lumens: 6169.4 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15228	15228	15228
5°	15345	15245	15189
10°	15308	15236	15192
15°	15227	15227	15211
20°	15127	15170	15170
25°	14984	15092	15046
30°	14800	14979	14915
35°	14582	14804	14699
40°	14338	14543	14396
45°	14080	14179	13960
50°	13712	13712	13492
55°	13277	13103	12909
60°	12634	12382	12182
65°	11675	11446	11341
70°	10226	10305	10270
75°	8227	9101	9158
80°	5850	7715	7794
85°	3567	6468	6468



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	2.5
10°-20°	448.3	7.3
20°-30°	678.9	11.0
30°-40°	813.9	13.2
40°-50°	829.9	13.5
50°-60°	724.4	11.7
60°-70°	518.6	8.4
70°-80°	267.2	4.3
80°-90°	68.2	1.1
90°-100°	102.0	1.7
100°-110°	355.0	5.8
110°-120°	343.9	5.6
120°-130°	269.8	4.4
130°-140°	213.5	3.5
140°-150°	164.8	2.7
150°-160°	118.1	1.9
160°-170°	72.3	1.2
170°-180°	24.4	0.4
0°-30°	1283.4	20.8
0°-40°	2097.3	34.0
0°-60°	3651.6	59.2
0°-90°	4505.6	73.0
90°-120°	800.9	13.0
90°-150°	1449.0	23.5
90°-180°	1664.0	27.0
0°-180°	6169.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1657	1640	1646	1641	1640	157
15°	1594	1581	1594	1594	1592	449
25°	1472	1461	1482	1478	1478	677
35°	1295	1291	1314	1305	1305	810
45°	1079	1076	1087	1073	1070	831
55°	825	815	815	802	802	736
65°	535	523	524	520	520	529
75°	231	241	255	257	257	249
85°	34	52	61	63	61	46
90°	4	6	6	4	2	4
95°	17	59	172	44	27	18
105°	59	84	373	629	585	62
115°	103	124	277	585	691	102
125°	140	172	258	436	520	125
135°	168	189	256	364	411	130
145°	197	210	254	314	340	123
155°	224	232	251	279	289	103
165°	245	247	253	264	266	69
175°	256	256	254	258	256	24
180°	256	256	256	256	256	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1650.5	1650.5	1650.5	1650.5	1650.5
2.5°	1660.5	1646.1	1650.5	1646.8	1640.8
5°	1656.9	1640.2	1646.1	1641.3	1640.0
7.5°	1644.7	1628.4	1636.1	1632.9	1631.3
10°	1634.0	1617.3	1626.3	1623.1	1621.6
12.5°	1619.2	1603.9	1614.0	1611.0	1610.5
15°	1594.2	1580.7	1594.2	1594.2	1592.5
17.5°	1562.6	1550.5	1564.7	1565.7	1564.7
20°	1540.7	1527.2	1545.1	1543.6	1545.1
22.5°	1513.8	1502.8	1522.0	1518.0	1519.6
25°	1471.9	1461.4	1482.5	1478.0	1478.0
27.5°	1422.4	1414.7	1437.9	1432.9	1432.9
30°	1389.2	1381.9	1406.0	1400.0	1400.0
32.5°	1352.5	1347.6	1370.7	1363.4	1363.4
35°	1294.7	1291.4	1314.4	1305.1	1305.1
37.5°	1234.6	1231.9	1252.8	1241.6	1238.0
40°	1190.5	1189.3	1207.5	1195.3	1195.3
42.5°	1146.5	1145.0	1161.1	1146.3	1146.3
45°	1079.1	1076.0	1086.7	1072.7	1069.9
47.5°	1005.3	1002.5	1009.1	994.0	992.4
50°	955.3	952.1	955.3	941.4	940.0
52.5°	903.9	898.4	898.9	885.2	884.9
55°	825.4	814.8	814.6	802.5	802.5
57.5°	742.1	728.5	729.7	719.3	717.6
60°	684.7	669.7	671.0	661.8	660.2
62.5°	628.3	611.2	614.6	604.3	604.1
65°	534.8	522.9	524.3	519.5	519.5
67.5°	445.0	433.9	442.1	438.4	438.1
70°	379.1	371.5	382.0	382.0	380.7
72.5°	318.0	317.7	330.6	330.6	331.7
75°	230.8	241.3	255.3	256.9	256.9
77.5°	154.1	172.6	188.1	188.6	188.4
80°	110.1	130.9	145.2	148.3	146.7
82.5°	74.5	96.7	108.5	111.5	110.1
85°	33.7	51.6	61.1	62.7	61.1
87.5°	9.7	20.6	24.5	24.5	22.1
90°	3.8	5.7	5.7	3.8	1.9
92.5°	9.5	28.7	26.8	11.5	9.5
95°	17.2	59.3	172.2	44.0	26.8
97.5°	26.8	66.9	344.3	156.9	84.2
100°	36.4	70.8	401.8	376.9	243.0
102.5°	47.8	76.5	399.9	529.9	436.2
105°	59.3	84.2	373.1	629.4	585.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	91.9	112.9	290.8	633.3	721.3
115°	103.3	124.3	277.4	585.4	690.6
117.5°	114.8	137.8	269.7	541.4	646.6
120°	124.3	149.2	264.0	499.3	602.6
122.5°	132.0	160.7	260.2	464.9	558.6
125°	139.7	172.2	258.3	436.2	520.4
127.5°	147.3	179.8	258.3	415.2	485.9
130°	155.0	183.6	256.4	394.1	457.3
132.5°	162.6	185.5	256.4	378.8	432.4
135°	168.3	189.4	256.4	363.5	411.4
137.5°	176.0	193.3	256.4	350.1	394.1
140°	181.7	199.0	256.4	336.7	375.0
142.5°	189.4	204.7	256.4	323.3	357.8
145°	197.1	210.5	254.5	313.8	340.5
147.5°	204.7	216.2	252.6	304.2	325.2
150°	210.5	221.9	252.6	294.7	311.9
152.5°	218.1	227.6	250.7	285.0	300.4
155°	223.8	231.5	250.7	279.3	288.8
157.5°	229.5	237.2	250.7	273.6	281.2
160°	235.3	241.1	252.6	269.7	275.5
162.5°	241.1	244.9	252.6	265.9	269.7
165°	244.9	246.8	252.6	264.0	265.9
167.5°	248.7	250.7	252.6	262.1	262.1
170°	250.7	252.6	254.5	260.2	260.2
172.5°	254.5	254.5	254.5	258.3	258.3
175°	256.4	256.4	254.5	258.3	256.4
177.5°	256.4	256.4	254.5	258.3	256.4
180°	256.4	256.4	256.4	256.4	256.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	70.8	93.8	338.6	673.5	681.1
110°	80.4	103.3	311.9	667.7	723.2



(END OF REPORT)